Permit Application

Environmental Impact Assessment

White Pine North Project

Volume IIB

Appendix C-1 (2 of 6)

White Pine Copper LLC

White Pine, Michigan

September 2026

Project I.D.: 23W200

Solving our clients' toughest science and engineering challenges.

C-1

Groundwater and Surface Water Hydrology Baseline Report

(2 of 6)

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

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JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254003-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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Authorized for release by
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Job ID: 500-254003-1 — Eurofins Chicago

Job Narrative
500-254003-1

Receipt
The samples were received on 7/25/2024 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6º C.

Metals
Method 1630: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 350-2462 and analytical batch 350-2488 was outside control limits. Sample matrix interference is suspected.

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- MB 350-2462/3-A (Instrument Noise)
- 500-253934-E-3-A (Instrument Noise)
- 500-254020-F-1-A (Instrument Noise)
- CCB (Instrument Noise)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The following sample was received outside of holding time: PRC-02_20240722 (500-254003-1).

Method SM 2320B: The method blank for analytical batch 500-779874 contained Alkalinity above the reporting limit (RL). Associated sample(s) were not re-analyzed because results were greater than 10X the value found in the method blank.

Method 365.1: ICV recovered low at 76% Recovery. Samples were reprepped out of hold. (ICV 500-781722/9)

Method 365.1: CCV failed low. Samples were reprepped out of hold. (CCV 500-780961/25-A)

Method 365.1: LCS failed low. Samples were reprepped out of hold. Data Confirmed initial analysis. (LCS 500-780961/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254003-1

Client Sample ID: PRC-02_20240722

Lab Sample ID: 500-254003-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.24	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.20	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.36		0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.36		0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	51	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.60	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	130		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	390	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	77000		200	44	ug/L	1		6020B	Total Recoverable
Copper	11		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	100		100	47	ug/L	1		6020B	Total Recoverable
Lithium	36		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	11000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	29		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	35		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	3900		500	110	ug/L	1		6020B	Total Recoverable
Sodium	86000	B	200	77	ug/L	1		6020B	Total Recoverable
Strontium	940		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.59	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	130		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	390	B	50	13	ug/L	1		6020B	Dissolved
Calcium	76000		200	44	ug/L	1		6020B	Dissolved
Copper	8.7		2.0	0.50	ug/L	1		6020B	Dissolved
Lithium	36		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	11000		200	49	ug/L	1		6020B	Dissolved
Manganese	21		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	35		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	3900		500	110	ug/L	1		6020B	Dissolved
Sodium	86000	B	200	77	ug/L	1		6020B	Dissolved
Strontium	950		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	240		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	1.9		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	190		10	1.2	mg/L	10		300.0	Total/NA
Fluoride	0.34	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	29		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	88	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	88	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	600		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	3.0	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PRC-02_20240722 (Continued) — Lab Sample ID: 500-254003-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	4.4		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	3.8		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: PRC-02_20240722_FBLL — Lab Sample ID: 500-254003-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254003-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254003-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254003-1	PRC-02_20240722	Water	07/22/24 12:30	07/25/24 10:10
500-254003-2	PRC-02_20240722_FBLL	Water	07/22/24 12:30	07/25/24 10:10

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254003-1

Client Sample ID: PRC-02_20240722

Date Collected: 07/22/24 12:30
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254003-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 18:33	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 18:44	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.24**	**J**	0.50	0.20	ng/L			07/30/24 20:16	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**	**J**	0.50	0.20	ng/L			07/30/24 20:20	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.36**		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 21:28	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.36**		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 21:03	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**51**	**J**	100	25	ug/L		08/13/24 09:16	08/13/24 17:45	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:45	1
Arsenic	**0.60**	**J**	1.0	0.23	ug/L		08/13/24 09:16	08/13/24 17:45	1
Barium	**130**		2.5	0.73	ug/L		08/13/24 09:16	08/13/24 17:45	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 09:16	08/13/24 17:45	1
Boron	**390**	**B**	50	13	ug/L		08/13/24 09:16	08/13/24 17:45	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 09:16	08/13/24 17:45	1
Calcium	**77000**		200	44	ug/L		08/13/24 09:16	08/13/24 17:45	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 09:16	08/13/24 17:45	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 09:16	08/13/24 17:45	1
Copper	**11**		2.0	0.50	ug/L		08/13/24 09:16	08/13/24 17:45	1
Iron	**100**		100	47	ug/L		08/13/24 09:16	08/13/24 17:45	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 09:16	08/13/24 17:45	1
Lithium	**36**		10	2.5	ug/L		08/13/24 09:16	08/14/24 12:30	1
Magnesium	**11000**		200	49	ug/L		08/13/24 09:16	08/13/24 17:45	1
Manganese	**29**		2.5	0.79	ug/L		08/13/24 09:16	08/13/24 17:45	1
Molybdenum	**35**		5.0	2.5	ug/L		08/13/24 09:16	08/13/24 17:45	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 09:16	08/13/24 17:45	1
Potassium	**3900**		500	110	ug/L		08/13/24 09:16	08/13/24 17:45	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 09:16	08/13/24 17:45	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 09:16	08/13/24 17:45	1
Sodium	**86000**	**B**	200	77	ug/L		08/13/24 09:16	08/13/24 17:45	1
Strontium	**940**		4.0	0.64	ug/L		08/13/24 09:16	08/13/24 17:45	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 09:16	08/13/24 17:45	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:45	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 09:16	08/13/24 17:45	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 09:16	08/13/24 17:45	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254003-1

Client Sample ID: PRC-02_20240722

Date Collected: 07/22/24 12:30
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254003-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 09:16	08/13/24 17:48	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:48	1
Arsenic	**0.59**	**J**	1.0	0.23	ug/L		08/13/24 09:16	08/13/24 17:48	1
Barium	**130**		2.5	0.73	ug/L		08/13/24 09:16	08/13/24 17:48	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 09:16	08/13/24 17:48	1
Boron	**390**	**B**	50	13	ug/L		08/13/24 09:16	08/13/24 17:48	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 09:16	08/13/24 17:48	1
Calcium	**76000**		200	44	ug/L		08/13/24 09:16	08/13/24 17:48	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 09:16	08/13/24 17:48	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 09:16	08/13/24 17:48	1
Copper	**8.7**		2.0	0.50	ug/L		08/13/24 09:16	08/13/24 17:48	1
Iron	<47		100	47	ug/L		08/13/24 09:16	08/13/24 17:48	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 09:16	08/13/24 17:48	1
Lithium	**36**		10	2.5	ug/L		08/13/24 09:16	08/14/24 12:32	1
Magnesium	**11000**		200	49	ug/L		08/13/24 09:16	08/13/24 17:48	1
Manganese	**21**		2.5	0.79	ug/L		08/13/24 09:16	08/13/24 17:48	1
Molybdenum	**35**		5.0	2.5	ug/L		08/13/24 09:16	08/13/24 17:48	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 09:16	08/13/24 17:48	1
Potassium	**3900**		500	110	ug/L		08/13/24 09:16	08/13/24 17:48	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 09:16	08/13/24 17:48	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 09:16	08/13/24 17:48	1
Sodium	**86000**	**B**	200	77	ug/L		08/13/24 09:16	08/13/24 17:48	1
Strontium	**950**		4.0	0.64	ug/L		08/13/24 09:16	08/13/24 17:48	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 09:16	08/13/24 17:48	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:48	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 09:16	08/13/24 17:48	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 09:16	08/13/24 17:48	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**240**		0.91	0.46	mg/L		08/13/24 09:16	08/14/24 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**1.9**		1.0	0.18	mg/L			07/25/24 20:10	1
Nitrate as N (EPA 300.0)	<0.043	H3	1.0	0.043	mg/L			07/25/24 20:10	1
Chloride (EPA 300.0)	**190**		10	1.2	mg/L			08/09/24 13:13	10
Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			07/25/24 20:10	1
Fluoride (EPA 300.0)	**0.34**	**J**	1.0	0.19	mg/L			07/25/24 20:10	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			07/25/24 20:10	1
Sulfate (EPA 300.0)	**29**		1.0	0.21	mg/L			07/25/24 20:10	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/02/24 10:37	08/02/24 16:17	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:31	1
Phosphorus as P (EPA 365.1)	<0.024	^1- ^- *-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:41	1
Alkalinity (SM 2320B)	**88**	**B**	5.0	3.7	mg/L			08/02/24 19:40	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**88**	**B**	5.0	3.7	mg/L			08/02/24 19:40	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/02/24 19:40	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			07/29/24 15:22	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254003-1

Client Sample ID: PRC-02_20240722
Date Collected: 07/22/24 12:30
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254003-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	600		10	4.3	mg/L			07/26/24 03:32	1
Total Suspended Solids (SM 2540D)	3.0	J	5.0	1.9	mg/L			07/29/24 21:46	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			07/29/24 22:45	1
Total Organic Carbon (SM 5310C)	4.4		1.0	0.47	mg/L			08/08/24 15:19	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	3.8		1.0	0.47	mg/L			07/28/24 23:54	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254003-1

Client Sample ID: PRC-02_20240722_FBLL
Date Collected: 07/22/24 12:30
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254003-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 20:25	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254003-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Dissolved	Water	1630	
500-254003-1	PRC-02_20240722	Total/NA	Water	1630	
MB 350-2462/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2462/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2462/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2462/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2462/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Prep Batch: 2463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Dissolved	Water	1638	
500-254003-1	PRC-02_20240722	Total Recoverable	Water	1638	
MB 350-2463/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2463/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2463/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2463/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Dissolved	Water	1638	2463
500-254003-1	PRC-02_20240722	Total Recoverable	Water	1638	2463
MB 350-2463/1-A	Method Blank	Total Recoverable	Water	1638	2463
MB 350-2463/2-A	Method Blank	Total Recoverable	Water	1638	2463
LCS 350-2463/3-A	Lab Control Sample	Total Recoverable	Water	1638	2463
LCSD 350-2463/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2463

Analysis Batch: 2481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Dissolved	Water	1631E	
500-254003-1	PRC-02_20240722	Total/NA	Water	1631E	
500-254003-2	PRC-02_20240722_FBLL	Total/NA	Water	1631E	
MB 350-2481/52	Method Blank	Total/NA	Water	1631E	
MB 350-2481/53	Method Blank	Total/NA	Water	1631E	
MB 350-2481/54	Method Blank	Total/NA	Water	1631E	
LCS 350-2481/55	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2481/56	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Dissolved	Water	1630	2462
500-254003-1	PRC-02_20240722	Total/NA	Water	1630	2462
MB 350-2462/1-A	Method Blank	Total/NA	Water	1630	2462
MB 350-2462/2-A	Method Blank	Total/NA	Water	1630	2462
MB 350-2462/3-A	Method Blank	Total/NA	Water	1630	2462
LCS 350-2462/4-A	Lab Control Sample	Total/NA	Water	1630	2462
LCSD 350-2462/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2462

Prep Batch: 781119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Dissolved	Water	3005A	
500-254003-1	PRC-02_20240722	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 781119 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-781119/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781119/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 781318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Dissolved	Water	6020B	781119
500-254003-1	PRC-02_20240722	Total Recoverable	Water	6020B	781119
MB 500-781119/1-A	Method Blank	Total Recoverable	Water	6020B	781119
LCS 500-781119/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781119

Analysis Batch: 781363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total Recoverable	Water	SM 2340B	781119

Analysis Batch: 781422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Dissolved	Water	6020B	781119
500-254003-1	PRC-02_20240722	Total Recoverable	Water	6020B	781119

General Chemistry

Analysis Batch: 778450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total/NA	Water	300.0	
MB 500-778450/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778450/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total/NA	Water	300.0	
MB 500-778451/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778451/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total/NA	Water	SM 2540C	
MB 500-778480/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-778480/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 778742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Dissolved	Water	SM 5310C	
MB 500-778742/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-778742/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 778906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total/NA	Water	SM 2540D	
MB 500-778906/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-778906/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-254003-1 MS	PRC-02_20240722	Total/NA	Water	SM 2540D	

General Chemistry

Analysis Batch: 779001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total/NA	Water	SM 4500 S2 F	
MB 500-779001/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-779001/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 779504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total/NA	Water	SM 2520B	

Prep Batch: 779702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total/NA	Water	Distill/CN	
MB 500-779702/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-779702/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 779754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total/NA	Water	335.4	779702
MB 500-779702/1-A	Method Blank	Total/NA	Water	335.4	779702
LCS 500-779702/2-A	Lab Control Sample	Total/NA	Water	335.4	779702

Analysis Batch: 779874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total/NA	Water	SM 2320B	
MB 500-779874/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-779874/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 780563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total/NA	Water	300.0	
MB 500-780563/67	Method Blank	Total/NA	Water	300.0	
LCS 500-780563/68	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total/NA	Water	SM 5310C	
MB 500-780802/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-780802/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 780961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total/NA	Water	365.2/365.3/365	
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Prep Batch: 781418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total/NA	Water	Distill/Ammonia	
MB 500-781418/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
500-254003-1 MS	PRC-02_20240722	Total/NA	Water	Distill/Ammonia	
500-254003-1 MSD	PRC-02_20240722	Total/NA	Water	Distill/Ammonia	

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254003-1

General Chemistry

Analysis Batch: 781722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total/NA	Water	365.1	780961
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.1	780961
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.1	780961

Analysis Batch: 781794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254003-1	PRC-02_20240722	Total/NA	Water	350.1	781418
MB 500-781418/1-A	Method Blank	Total/NA	Water	350.1	781418
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	350.1	781418
500-254003-1 MS	PRC-02_20240722	Total/NA	Water	350.1	781418
500-254003-1 MSD	PRC-02_20240722	Total/NA	Water	350.1	781418

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2462/1-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:20	1

Lab Sample ID: MB 350-2462/2-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:30	1

Lab Sample ID: MB 350-2462/3-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:40	1

Lab Sample ID: LCS 350-2462/4-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.949		ng/L		95	65 - 135

Lab Sample ID: LCSD 350-2462/5-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2462

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.904		ng/L		90	65 - 135	5	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2481/52
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 14:45	1

Lab Sample ID: MB 350-2481/53
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 14:49	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2481/54
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 14:53	1

Lab Sample ID: LCS 350-2481/55
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.54		ng/L		91	77 - 123

Lab Sample ID: LCSD 350-2481/56
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.57		ng/L		91	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2463/1-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 17:31	1

Lab Sample ID: MB 350-2463/2-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 17:35	1

Lab Sample ID: LCS 350-2463/3-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	23.8		ug/L		95	85 - 115

Lab Sample ID: LCSD 350-2463/4-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	23.1		ug/L		92	85 - 115	3	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781119/1-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 09:16	08/13/24 17:21	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:21	1
Arsenic	<0.23		1.0	0.23	ug/L		08/13/24 09:16	08/13/24 17:21	1
Barium	<0.73		2.5	0.73	ug/L		08/13/24 09:16	08/13/24 17:21	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 09:16	08/13/24 17:21	1
Boron	36.6	J	50	13	ug/L		08/13/24 09:16	08/13/24 17:21	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 09:16	08/13/24 17:21	1
Calcium	<44		200	44	ug/L		08/13/24 09:16	08/13/24 17:21	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 09:16	08/13/24 17:21	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 09:16	08/13/24 17:21	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 09:16	08/13/24 17:21	1
Iron	<47		100	47	ug/L		08/13/24 09:16	08/13/24 17:21	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 09:16	08/13/24 17:21	1
Lithium	<2.5		10	2.5	ug/L		08/13/24 09:16	08/13/24 17:21	1
Magnesium	<49		200	49	ug/L		08/13/24 09:16	08/13/24 17:21	1
Manganese	<0.79		2.5	0.79	ug/L		08/13/24 09:16	08/13/24 17:21	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 09:16	08/13/24 17:21	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 09:16	08/13/24 17:21	1
Potassium	<110		500	110	ug/L		08/13/24 09:16	08/13/24 17:21	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 09:16	08/13/24 17:21	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 09:16	08/13/24 17:21	1
Sodium	179	J	200	77	ug/L		08/13/24 09:16	08/13/24 17:21	1
Strontium	<0.64		4.0	0.64	ug/L		08/13/24 09:16	08/13/24 17:21	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 09:16	08/13/24 17:21	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:21	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 09:16	08/13/24 17:21	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 09:16	08/13/24 17:21	1

Lab Sample ID: LCS 500-781119/2-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2040		ug/L		102	80 - 120
Antimony	500	502		ug/L		100	80 - 120
Arsenic	100	97.8		ug/L		98	80 - 120
Barium	500	528		ug/L		106	80 - 120
Beryllium	50.0	52.9		ug/L		106	80 - 120
Boron	1000	1070		ug/L		107	80 - 120
Cadmium	50.0	50.2		ug/L		100	80 - 120
Calcium	10000	8640		ug/L		86	80 - 120
Chromium	200	209		ug/L		105	80 - 120
Cobalt	500	533		ug/L		107	80 - 120
Copper	250	259		ug/L		103	80 - 120
Iron	1000	1050		ug/L		105	80 - 120
Lead	100	102		ug/L		102	80 - 120
Lithium	100	116		ug/L		116	80 - 120
Magnesium	10000	10700		ug/L		107	80 - 120
Manganese	500	520		ug/L		104	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781119/2-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	1000	972		ug/L		97	80 - 120
Nickel	500	515		ug/L		103	80 - 120
Potassium	10000	10400		ug/L		104	80 - 120
Selenium	100	98.1		ug/L		98	80 - 120
Silver	50.0	49.6		ug/L		99	80 - 120
Sodium	10000	10600		ug/L		106	80 - 120
Strontium	1000	988		ug/L		99	80 - 120
Thallium	100	104		ug/L		104	80 - 120
Tin	1000	992		ug/L		99	80 - 120
Vanadium	500	518		ug/L		104	80 - 120
Zinc	500	499		ug/L		100	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-778450/3
Matrix: Water
Analysis Batch: 778450

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			07/25/24 19:23	1
Fluoride	<0.19		1.0	0.19	mg/L			07/25/24 19:23	1
Sulfate	<0.21		1.0	0.21	mg/L			07/25/24 19:23	1

Lab Sample ID: LCS 500-778450/4
Matrix: Water
Analysis Batch: 778450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.5		mg/L		98	90 - 110
Fluoride	20.0	21.1		mg/L		106	90 - 110
Sulfate	20.0	21.6		mg/L		108	90 - 110

Lab Sample ID: MB 500-778451/3
Matrix: Water
Analysis Batch: 778451

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			07/25/24 19:23	1
Nitrite as N	<0.070		1.0	0.070	mg/L			07/25/24 19:23	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			07/25/24 19:23	1

Lab Sample ID: LCS 500-778451/4
Matrix: Water
Analysis Batch: 778451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.2		mg/L		96	90 - 110
Nitrite as N	20.0	21.0		mg/L		105	90 - 110
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-780563/67
Matrix: Water
Analysis Batch: 780563

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/09/24 10:56	1
Sulfate	<0.21		1.0	0.21	mg/L			08/09/24 10:56	1

Lab Sample ID: LCS 500-780563/68
Matrix: Water
Analysis Batch: 780563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.2		mg/L		96	90 - 110
Sulfate	20.0	20.6		mg/L		103	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-779702/1-A
Matrix: Water
Analysis Batch: 779754

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 779702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/02/24 10:37	08/02/24 15:30	1

Lab Sample ID: LCS 500-779702/2-A
Matrix: Water
Analysis Batch: 779754

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 779702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0970		mg/L		97	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-781418/1-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:26	1

Lab Sample ID: LCS 500-781418/2-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.97		mg/L		99	90 - 110

Lab Sample ID: 500-254003-1 MS
Matrix: Water
Analysis Batch: 781794

Client Sample ID: PRC-02_20240722
Prep Type: Total/NA
Prep Batch: 781418

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	<0.10		2.00	1.92		mg/L		96	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 500-254003-1 MSD — **Client Sample ID: PRC-02_20240722**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 781794 — **Prep Batch: 781418**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	<0.10		2.00	1.98		mg/L		99	90 - 110	3	20

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780961/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 781722 — **Prep Batch: 780961**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^- ^1-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:36	1

Lab Sample ID: LCS 500-780961/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 781722 — **Prep Batch: 780961**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.367	^1- *- ^-	mg/L		73	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-779874/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 779874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.71		5.0	3.7	mg/L			08/02/24 18:17	1
Bicarbonate Alkalinity as CaCO3	5.71		5.0	3.7	mg/L			08/02/24 18:17	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/02/24 18:17	1

Lab Sample ID: LCS 500-779874/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 779874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	106		mg/L		106	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-778480/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 778480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			07/26/24 02:38	1

Lab Sample ID: LCS 500-778480/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 778480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	240		mg/L		96	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-778906/1
Matrix: Water
Analysis Batch: 778906

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			07/29/24 21:05	1

Lab Sample ID: LCS 500-778906/2
Matrix: Water
Analysis Batch: 778906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	180		mg/L		90	80 - 120

Lab Sample ID: 500-254003-1 MS
Matrix: Water
Analysis Batch: 778906

Client Sample ID: PRC-02_20240722
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	3.0	J	100	99.0		mg/L		96	75 - 125

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-779001/1
Matrix: Water
Analysis Batch: 779001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			07/29/24 22:23	1

Lab Sample ID: LCS 500-779001/2
Matrix: Water
Analysis Batch: 779001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.29		mg/L		91	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-780802/7
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/08/24 12:59	1

Lab Sample ID: LCS 500-780802/8
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254003-1

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-778742/7
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			07/28/24 18:19	1

Lab Sample ID: LCS 500-778742/8
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Dissolved Organic Carbon			10.0	10.3		mg/L		103	86 - 116		

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254003-1

Client Sample ID: PRC-02_20240722

Lab Sample ID: 500-254003-1

Date Collected: 07/22/24 12:30

Matrix: Water

Date Received: 07/25/24 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2462	AJD	EET SSM	07/29/24 09:45
Dissolved	Analysis	1630		1	2488	CL	EET SSM	07/30/24 18:44
Total/NA	Prep	1630			2462	AJD	EET SSM	07/29/24 09:45
Total/NA	Analysis	1630		1	2488	CL	EET SSM	07/30/24 18:33
Dissolved	Analysis	1631E		1	2481	CL	EET SSM	07/30/24 20:20
Total/NA	Analysis	1631E		1	2481	CL	EET SSM	07/30/24 20:16
Dissolved	Prep	1638			2463	V1R	EET SSM	07/29/24 12:49
Dissolved	Analysis	1638		1	2472	V1R	EET SSM	07/29/24 21:03
Total Recoverable	Prep	1638			2463	V1R	EET SSM	07/29/24 12:49
Total Recoverable	Analysis	1638		1	2472	V1R	EET SSM	07/29/24 21:28
Dissolved	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 ¹
Dissolved	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 17:48
Dissolved	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 ¹
Dissolved	Analysis	6020B		1	781422	RN	EET CHI	08/14/24 12:32
Total Recoverable	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 ¹
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 17:45
Total Recoverable	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 ¹
Total Recoverable	Analysis	6020B		1	781422	RN	EET CHI	08/14/24 12:30
Total Recoverable	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 ¹
Total Recoverable	Analysis	SM 2340B		1	781363	DAJ	EET CHI	08/14/24 10:25
Total/NA	Analysis	300.0		10	780563	W1T	EET CHI	08/09/24 13:13
Total/NA	Analysis	300.0		1	778450	W1T	EET CHI	07/25/24 20:10
Total/NA	Analysis	300.0		1	778451	W1T	EET CHI	07/25/24 20:10
Total/NA	Prep	Distill/CN			779702	KF	EET CHI	08/02/24 10:37 - 08/02/24 11:07 ¹
Total/NA	Analysis	335.4		1	779754	KF	EET CHI	08/02/24 16:17
Total/NA	Prep	Distill/Ammonia			781418	EB	EET CHI	08/14/24 15:14 - 08/14/24 16:14 ¹
Total/NA	Analysis	350.1		1	781794	KF	EET CHI	08/15/24 17:31
Total/NA	Prep	365.2/365.3/365			780961	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:40 ¹
Total/NA	Analysis	365.1		1	781722	LP	EET CHI	08/13/24 17:41
Total/NA	Analysis	SM 2320B		1	779874	SO	EET CHI	08/02/24 19:40
Total/NA	Analysis	SM 2520B		1	779504	TR	EET CHI	07/29/24 15:22
Total/NA	Analysis	SM 2540C		1	778480	CLB	EET CHI	07/26/24 03:32
Total/NA	Analysis	SM 2540D		1	778906	CLB	EET CHI	07/29/24 21:46 - 07/29/24 21:49 ¹
Total/NA	Analysis	SM 4500 S2 F		1	779001	CLB	EET CHI	07/29/24 22:45 - 07/29/24 22:49 ¹
Dissolved	Analysis	SM 5310C		1	778742	TR	EET CHI	07/28/24 23:54
Total/NA	Analysis	SM 5310C		1	780802	TR	EET CHI	08/08/24 15:19

Client Sample ID: PRC-02_20240722_FBLL

Lab Sample ID: 500-254003-2

Date Collected: 07/22/24 12:30

Matrix: Water

Date Received: 07/25/24 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2481	CL	EET SSM	07/30/24 20:25

Lab Chronicle

Client: White Pine Copper LLC
Job ID: 500-254003-1
Project/Site: White Pines, MI

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254003-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	08-07-24
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	08-07-24
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 1Z09N FT50117589710	COC No: 500-126351-50241 11
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1/of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500 254003
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N - None; CB - ZnAcetate/NaOH; B - NaOH; D - HNO3; A - HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			500-254003 COC
Phone: 906-204-6500	PO #: Purchase Order not required			Other:
Email: AZeidler@whitepinecu com	WO #			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	350.1 Ammonia, 365.1 Phos TOC SM5310 JC	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, ~~3000_ORG~~, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	~~3500_CR_D - Dissolved Chromium, Hex (field filtered)~~ JC	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code.			S	N	CB	B	S	D	D	N	A	D	D	N	N		
1 PRC-02_20240722	7.22.24	12:30	G	Water		X	X	X	X	X	X	X	X	X	X	X	X	X	18	
2 ~~EB-10~~ FB_PRC-02_20240722	7.22.24	12:30	G	Water									X				MS	MS	2	
& PRC-02_20240722_FBLL			G	Water														MS		
			G	Water																
			G	Water																
			G	Water																
			G	Water																
			G	Water																
			G	Water																
			G	Water																

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements.

Empty Kit Relinquished by	Date	Time	Method of Shipment: UPS OVERNIGHT

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jacob Dean	7/23/24 1315	MSG		7/23/24 1315	MSG
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	7/23/24 1600	MSG	1Z09N FT5 0117589710	7/23/24 1600	UPS
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			Stephanie Hernandez	7/25/24 1010	EEA

Custody Seals Intact	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		2.7+2.6

Ver 04/02/2024

*updated COC 7/25/24

8/23/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 17 09N FT5 01 1758 9710	COC No: 500-126351-50241 12
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E Mail: Sandra Fredrick@et eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254003
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
S H2SO4
N None
CB ZnAcetate/NaOH
B - NaOH
D HNO3
A - HCL
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note.
			Preservation Code			A		
PRC-02-20240722	7-22-24	12:30	G	Water		X	1	
			G	Water				
			G	Water				
			G	Water				
			G	Water				
			G	Water				
			G	Water				
			G	Water				
			G	Water				
			G	Water				
			G	Water				

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: UPS OVERNIGHT

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		07/23/24 1315	MSG		7/23/24 1315	MSG
		07/23/24 1600	MSG	1Z 09N FT5 01 1758 9710	7/23/24 1600	UPS
		Date/Time	Company	Received by: Stephanie Hernandez	Date/Time: 7/25/24 1010	Company EEA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Ver: 04/02/2024

*updated COC 7/25/24

8/23/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 1Z09N FTS0117589710	COC No: 500-126351-50241 11
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-154003
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other:
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, ~~300_0R_S~~ SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	3500_CR_B - Dissolved Chromium, Hex (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	N		
1 PRC-02_20240722	7-22-24	12 30	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	18	
2 ~~EB~~ FB_PRC-02_20240722	7 22 24	12 30	G	Water										X				MS	MS	2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: UPS OVERNIGHT

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jacob Dean	7/23/24 1315	MSG		7/23/24 1315	MSG
	7/23/24 1600	MSG	1Z09N FTS 0117589710	7/23/24 1600	UPS
	Date/Time	Company	Stephanie Hemmons	7/25/24 1010	FEDEX

Custody Seals Intact. Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks. 2.7-2.6

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 1Z 09N FT5 01 1758 9710	COC No: 600-126351-50241 12
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254003
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A - HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
1 PRC-02-20240722	7-22-24	12:30	G	Water			X	1	
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: UPS OVERNIGHT

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	07/23/24 1315	MSG	[signature]	7/23/24 1315	MSG
2	[signature]	07/23/24 1600	MSG	1Z09NFT50117589710	7/23/24 1600	UPS
3				Stephanie Hernandez	7/25/24 1010	EEA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-190908.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-254003-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/14/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: White Pines, MI	Project #: 50023455			
Site	SSOW#			

Analysis Requested

Preservation Codes: -

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
PRC-02_20240722 (500-254003-1)	7/22/24	12:30 Eastern		Water			X	X	X	X	X	X	8	
PRC-02_20240722_FBLL (500-254003-2)	7/22/24	12:30 Eastern		Water				X					2	

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp 1.0 4.0 / 1.3 0.0 °C 0.4
Delivery: UPS / FedEx / Other
Ice Type: Blue / Dry / (Wet) / None
Label Ver. _____ Packing: Bub

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Khin Lath	7/25/24 1530		Kyle Grider	07-26-24 0940	EETNW
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 705176 7043 (41, 52, 63)

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254003-1

Login Number: 254003
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Anions received past hold
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254003-1

Login Number: 254003
List Number: 2
Creator: Groden, Kyle J

List Source: Eurofins Seattle Specialty Metals
List Creation: 07/26/24 01:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254003 Field Sheet

Date:	7/26/2024
End Time:	13:50
pH Paper Lot:	HC324723
Analyst:	VM

Preservative ID	Preservative Type	Container ID
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254003-K-1	<2				
500-254003-J-1	<2				

VM 7-26-24

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500-254003 Field Sheet

Date:	7/26/2024
End Time:	1529
pH Paper Lot:	HC324723
Analyst:	

Preservative ID	Preservative Type	Container ID
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254003-E-1	<2				
500-254003-F-1	<2				

7-26-24

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8/23/2024

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/23/2024 4:24:11 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254004-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/23/2024 4:24:11 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254004-1

Receipt
The samples were received on 07/25/24 10:10. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

Receipt Exceptions
Sample #1 COC list 13 container however received 11. Appropriate containers received (TOC to be taken from sulfuric container)

Metals
Method 6020B: The method blank for preparation batch 500-781184 contained Boron and Silver above the reporting limit (RL). None of the samples associated with this method blank contained the target compound above the reporting limit; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 6020B: The continuing calibration verification (CCV) associated with batch 500-781573 recovered above the upper control limit for Lithium. The samples associated with this CCV were non-detects for the affected analyte or QC samples that recovered within control limits; therefore, the data have been reported. The associated sample is impacted: (CCV 500-781573/143).

Method 1630: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 350-2462 and analytical batch 350-2488 was outside control limits. Sample matrix interference is suspected.

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- MB 350-2462/3-A (Instrument Noise)
- 500-253934-E-3-A (Instrument Noise)
- 500-254020-F-1-A (Instrument Noise)
- CCB (Instrument Noise)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 365.1: ICV recovered low at 76% Recovery. Samples were reprepped out of hold. (ICV 500-781722/9)

Method 365.1: CCV failed low. Samples were reprepped out of hold. (CCV 500-780961/25-A)

Method 365.1: LCS failed low. Samples were reprepped out of hold. Data Confirmed initial analysis. (LCS 500-780961/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254004-1

Client Sample ID: EB-SMW-01_20240723 — Lab Sample ID: 500-254004-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	32	J B	50	13	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	8.0	J	10	4.3	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-SMW-01_20240723_FBLL — Lab Sample ID: 500-254004-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254004-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254004-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254004-1	EB-SMW-01_20240723	Water	07/23/24 14:50	07/25/24 10:10
500-254004-2	EB-SMW-01_20240723_FBLL	Water	07/23/24 14:50	07/25/24 10:10

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254004-1

Client Sample ID: EB-SMW-01_20240723

Date Collected: 07/23/24 14:50
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254004-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 18:54	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 19:47	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 21:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 14:45	08/14/24 16:22	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:22	1
Arsenic	<0.23		1.0	0.23	ug/L		08/13/24 14:45	08/14/24 16:22	1
Barium	<0.73		2.5	0.73	ug/L		08/13/24 14:45	08/14/24 16:22	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:45	08/14/24 16:22	1
Boron	**32**	**J B**	50	13	ug/L		08/13/24 14:45	08/14/24 16:22	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:45	08/14/24 16:22	1
Calcium	<44		200	44	ug/L		08/13/24 14:45	08/14/24 16:22	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:45	08/14/24 16:22	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:45	08/14/24 16:22	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 14:45	08/14/24 16:22	1
Iron	<47		100	47	ug/L		08/13/24 14:45	08/14/24 16:22	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:45	08/14/24 16:22	1
Lithium	<2.5	^+	10	2.5	ug/L		08/13/24 14:45	08/14/24 16:22	1
Magnesium	<49		200	49	ug/L		08/13/24 14:45	08/14/24 16:22	1
Manganese	<0.79		2.5	0.79	ug/L		08/13/24 14:45	08/14/24 16:22	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 14:45	08/14/24 16:22	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:45	08/14/24 16:22	1
Potassium	<110		500	110	ug/L		08/13/24 14:45	08/14/24 16:22	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:45	08/14/24 16:22	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:45	08/14/24 16:22	1
Sodium	<77		200	77	ug/L		08/13/24 14:45	08/14/24 16:22	1
Strontium	<0.64		4.0	0.64	ug/L		08/13/24 14:45	08/14/24 16:22	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:45	08/14/24 16:22	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:22	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:45	08/14/24 16:22	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:45	08/14/24 16:22	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	<0.46		0.91	0.46	mg/L		08/13/24 14:45	08/15/24 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			07/25/24 11:46	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			07/25/24 11:46	1
Chloride (EPA 300.0)	<0.12		1.0	0.12	mg/L			07/25/24 11:46	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			07/25/24 11:46	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			07/25/24 11:46	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254004-1

Client Sample ID: EB-SMW-01_20240723
Date Collected: 07/23/24 14:50
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254004-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			07/25/24 11:46	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			07/25/24 11:46	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/03/24 09:18	08/06/24 17:05	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:32	1
Phosphorus as P (EPA 365.1)	<0.024	^1- ^- *-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:41	1
Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			08/06/24 16:43	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/06/24 16:43	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/06/24 16:43	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			07/29/24 15:18	1
Total Dissolved Solids (SM 2540C)	**8.0**	**J**	10	4.3	mg/L			07/29/24 05:27	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			07/30/24 16:47	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			07/29/24 23:42	1
Total Organic Carbon (SM 5310C)	<0.47		1.0	0.47	mg/L			08/08/24 15:47	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254004-1

Client Sample ID: EB-SMW-01_20240723_FBLL
Date Collected: 07/23/24 14:50
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254004-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 20:29	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254004-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254004-1

Metals

Prep Batch: 2462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	1630	
MB 350-2462/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2462/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2462/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2462/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2462/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Prep Batch: 2463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total Recoverable	Water	1638	
MB 350-2463/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2463/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2463/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2463/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total Recoverable	Water	1638	2463
MB 350-2463/1-A	Method Blank	Total Recoverable	Water	1638	2463
MB 350-2463/2-A	Method Blank	Total Recoverable	Water	1638	2463
LCS 350-2463/3-A	Lab Control Sample	Total Recoverable	Water	1638	2463
LCSD 350-2463/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2463

Analysis Batch: 2481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	1631E	
500-254004-2	EB-SMW-01_20240723_FBLL	Total/NA	Water	1631E	
MB 350-2481/52	Method Blank	Total/NA	Water	1631E	
MB 350-2481/53	Method Blank	Total/NA	Water	1631E	
MB 350-2481/54	Method Blank	Total/NA	Water	1631E	
LCS 350-2481/55	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2481/56	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	1630	2462
MB 350-2462/1-A	Method Blank	Total/NA	Water	1630	2462
MB 350-2462/2-A	Method Blank	Total/NA	Water	1630	2462
MB 350-2462/3-A	Method Blank	Total/NA	Water	1630	2462
LCS 350-2462/4-A	Lab Control Sample	Total/NA	Water	1630	2462
LCSD 350-2462/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2462

Prep Batch: 781184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total Recoverable	Water	3005A	
MB 500-781184/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781184/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-254004-1 MS	EB-SMW-01_20240723	Total Recoverable	Water	3005A	
500-254004-1 MSD	EB-SMW-01_20240723	Total Recoverable	Water	3005A	
500-254004-1 DU	EB-SMW-01_20240723	Total Recoverable	Water	3005A	

Metals

Analysis Batch: 781573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total Recoverable	Water	6020B	781184
MB 500-781184/1-A	Method Blank	Total Recoverable	Water	6020B	781184
LCS 500-781184/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781184
500-254004-1 MS	EB-SMW-01_20240723	Total Recoverable	Water	6020B	781184
500-254004-1 MSD	EB-SMW-01_20240723	Total Recoverable	Water	6020B	781184
500-254004-1 DU	EB-SMW-01_20240723	Total Recoverable	Water	6020B	781184

Analysis Batch: 781604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total Recoverable	Water	SM 2340B	781184

General Chemistry

Analysis Batch: 778269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	300.0	
MB 500-778269/9	Method Blank	Total/NA	Water	300.0	
LCS 500-778269/10	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	300.0	
MB 500-778270/9	Method Blank	Total/NA	Water	300.0	
LCS 500-778270/10	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	SM 2540C	
MB 500-778717/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-778717/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 779001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	SM 4500 S2 F	
MB 500-779001/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-779001/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 779087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	SM 2540D	
MB 500-779087/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-779087/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-254004-1 MS	EB-SMW-01_20240723	Total/NA	Water	SM 2540D	

Analysis Batch: 779504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	SM 2520B	

Prep Batch: 779757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	Distill/CN	

General Chemistry (Continued)

Prep Batch: 779757 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-779757/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-779757/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 779842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-779757/1-A	Method Blank	Total/NA	Water	335.4	779757
LCS 500-779757/2-A	Lab Control Sample	Total/NA	Water	335.4	779757

Analysis Batch: 780196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	335.4	779757

Analysis Batch: 780255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	SM 2320B	
MB 500-780255/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-780255/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 780802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	SM 5310C	
MB 500-780802/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-780802/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 780961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	365.2/365.3/365	
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Prep Batch: 781418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	Distill/Ammonia	
MB 500-781418/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 781722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	365.1	780961
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.1	780961
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.1	780961

Analysis Batch: 781794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254004-1	EB-SMW-01_20240723	Total/NA	Water	350.1	781418
MB 500-781418/1-A	Method Blank	Total/NA	Water	350.1	781418
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	350.1	781418

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2462/1-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:20	1

Lab Sample ID: MB 350-2462/2-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:30	1

Lab Sample ID: MB 350-2462/3-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:40	1

Lab Sample ID: LCS 350-2462/4-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.949		ng/L		95	65 - 135

Lab Sample ID: LCSD 350-2462/5-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2462

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.904		ng/L		90	65 - 135	5	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2481/52
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 14:45	1

Lab Sample ID: MB 350-2481/53
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 14:49	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2481/54
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 14:53	1

Lab Sample ID: LCS 350-2481/55
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.54		ng/L		91	77 - 123

Lab Sample ID: LCSD 350-2481/56
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.57		ng/L		91	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2463/1-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 17:31	1

Lab Sample ID: MB 350-2463/2-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 17:35	1

Lab Sample ID: LCS 350-2463/3-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	23.8		ug/L		95	85 - 115

Lab Sample ID: LCSD 350-2463/4-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	23.1		ug/L		92	85 - 115	3	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781184/1-A
Matrix: Water
Analysis Batch: 781573

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 14:45	08/14/24 16:18	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:18	1
Arsenic	<0.23		1.0	0.23	ug/L		08/13/24 14:45	08/14/24 16:18	1
Barium	<0.73		2.5	0.73	ug/L		08/13/24 14:45	08/14/24 16:18	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:45	08/14/24 16:18	1
Boron	68.7		50	13	ug/L		08/13/24 14:45	08/14/24 16:18	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:45	08/14/24 16:18	1
Calcium	<44		200	44	ug/L		08/13/24 14:45	08/14/24 16:18	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:45	08/14/24 16:18	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:45	08/14/24 16:18	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 14:45	08/14/24 16:18	1
Iron	<47		100	47	ug/L		08/13/24 14:45	08/14/24 16:18	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:45	08/14/24 16:18	1
Lithium	<2.5	^+	10	2.5	ug/L		08/13/24 14:45	08/14/24 16:18	1
Magnesium	<49		200	49	ug/L		08/13/24 14:45	08/14/24 16:18	1
Manganese	<0.79		2.5	0.79	ug/L		08/13/24 14:45	08/14/24 16:18	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 14:45	08/14/24 16:18	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:45	08/14/24 16:18	1
Potassium	<110		500	110	ug/L		08/13/24 14:45	08/14/24 16:18	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:45	08/14/24 16:18	1
Silver	0.927		0.50	0.12	ug/L		08/13/24 14:45	08/14/24 16:18	1
Sodium	<77		200	77	ug/L		08/13/24 14:45	08/14/24 16:18	1
Strontium	<0.64		4.0	0.64	ug/L		08/13/24 14:45	08/14/24 16:18	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:45	08/14/24 16:18	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:18	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:45	08/14/24 16:18	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:45	08/14/24 16:18	1

Lab Sample ID: LCS 500-781184/2-A
Matrix: Water
Analysis Batch: 781573

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2010		ug/L		100	80 - 120
Antimony	500	511		ug/L		102	80 - 120
Arsenic	100	98.9		ug/L		99	80 - 120
Barium	500	505		ug/L		101	80 - 120
Beryllium	50.0	52.8		ug/L		106	80 - 120
Boron	1000	1050		ug/L		105	80 - 120
Cadmium	50.0	49.8		ug/L		100	80 - 120
Calcium	10000	8930		ug/L		89	80 - 120
Chromium	200	215		ug/L		108	80 - 120
Cobalt	500	547		ug/L		109	80 - 120
Copper	250	263		ug/L		105	80 - 120
Iron	1000	1070		ug/L		107	80 - 120
Lead	100	104		ug/L		104	80 - 120
Lithium	100	117	^+	ug/L		117	80 - 120
Magnesium	10000	10800		ug/L		108	80 - 120
Manganese	500	529		ug/L		106	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781184/2-A
Matrix: Water
Analysis Batch: 781573

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	1000	995		ug/L		99	80 - 120
Nickel	500	520		ug/L		104	80 - 120
Potassium	10000	10600		ug/L		106	80 - 120
Selenium	100	96.3		ug/L		96	80 - 120
Silver	50.0	50.3		ug/L		101	80 - 120
Sodium	10000	10700		ug/L		107	80 - 120
Strontium	1000	990		ug/L		99	80 - 120
Thallium	100	106		ug/L		106	80 - 120
Tin	1000	1010		ug/L		101	80 - 120
Vanadium	500	523		ug/L		105	80 - 120
Zinc	500	500		ug/L		100	80 - 120

Lab Sample ID: 500-254004-1 MS
Matrix: Water
Analysis Batch: 781573

Client Sample ID: EB-SMW-01_20240723
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	<25		2000	2020		ug/L		101	75 - 125
Antimony	<1.3		500	499		ug/L		100	75 - 125
Arsenic	<0.23		100	95.4		ug/L		95	75 - 125
Barium	<0.73		500	509		ug/L		102	75 - 125
Beryllium	<0.53		50.0	53.5		ug/L		107	75 - 125
Boron	32	J B	1000	1040		ug/L		101	75 - 125
Cadmium	<0.17		50.0	48.2		ug/L		96	75 - 125
Calcium	<44		10000	9150		ug/L		92	75 - 125
Chromium	<1.1		200	219		ug/L		109	75 - 125
Cobalt	<0.40		500	556		ug/L		111	75 - 125
Copper	<0.50		250	259		ug/L		103	75 - 125
Iron	<47		1000	1080		ug/L		108	75 - 125
Lead	<0.19		100	106		ug/L		106	75 - 125
Lithium	<2.5	^+	100	118	^+	ug/L		118	75 - 125
Magnesium	<49		10000	11000		ug/L		110	75 - 125
Manganese	<0.79		500	537		ug/L		107	75 - 125
Molybdenum	<2.5		1000	973		ug/L		97	75 - 125
Nickel	<0.63		500	514		ug/L		103	75 - 125
Potassium	<110		10000	10700		ug/L		107	75 - 125
Selenium	<0.98		100	93.4		ug/L		93	75 - 125
Silver	<0.12		50.0	49.2		ug/L		98	75 - 125
Sodium	<77		10000	10800		ug/L		108	75 - 125
Strontium	<0.64		1000	968		ug/L		97	75 - 125
Thallium	<0.57		100	107		ug/L		107	75 - 125
Tin	<1.3		1000	998		ug/L		100	75 - 125
Vanadium	<2.2		500	534		ug/L		107	75 - 125
Zinc	<6.9		500	485		ug/L		97	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254004-1 MSD
Matrix: Water
Analysis Batch: 781573

Client Sample ID: EB-SMW-01_20240723
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	<25		2000	2000		ug/L		100	75 - 125	1	20
Antimony	<1.3		500	491		ug/L		98	75 - 125	2	20
Arsenic	<0.23		100	95.0		ug/L		95	75 - 125	0	20
Barium	<0.73		500	505		ug/L		101	75 - 125	1	20
Beryllium	<0.53		50.0	53.3		ug/L		107	75 - 125	0	20
Boron	32	J B	1000	1040		ug/L		101	75 - 125	0	20
Cadmium	<0.17		50.0	48.0		ug/L		96	75 - 125	0	20
Calcium	<44		10000	9060		ug/L		91	75 - 125	1	20
Chromium	<1.1		200	214		ug/L		107	75 - 125	2	20
Cobalt	<0.40		500	551		ug/L		110	75 - 125	1	20
Copper	<0.50		250	258		ug/L		103	75 - 125	0	20
Iron	<47		1000	1070		ug/L		107	75 - 125	1	20
Lead	<0.19		100	103		ug/L		103	75 - 125	2	20
Lithium	<2.5	^+	100	117	^+	ug/L		117	75 - 125	1	20
Magnesium	<49		10000	10800		ug/L		108	75 - 125	2	20
Manganese	<0.79		500	533		ug/L		107	75 - 125	1	20
Molybdenum	<2.5		1000	971		ug/L		97	75 - 125	0	20
Nickel	<0.63		500	506		ug/L		101	75 - 125	2	20
Potassium	<110		10000	10600		ug/L		106	75 - 125	1	20
Selenium	<0.98		100	92.1		ug/L		92	75 - 125	1	20
Silver	<0.12		50.0	48.9		ug/L		98	75 - 125	1	20
Sodium	<77		10000	11000		ug/L		110	75 - 125	2	20
Strontium	<0.64		1000	961		ug/L		96	75 - 125	1	20
Thallium	<0.57		100	105		ug/L		105	75 - 125	2	20
Tin	<1.3		1000	981		ug/L		98	75 - 125	2	20
Vanadium	<2.2		500	526		ug/L		105	75 - 125	2	20
Zinc	<6.9		500	481		ug/L		96	75 - 125	1	20

Lab Sample ID: 500-254004-1 DU
Matrix: Water
Analysis Batch: 781573

Client Sample ID: EB-SMW-01_20240723
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	<25		<25		ug/L		NC	20
Antimony	<1.3		<1.3		ug/L		NC	20
Arsenic	<0.23		<0.23		ug/L		NC	20
Barium	<0.73		<0.73		ug/L		NC	20
Beryllium	<0.53		<0.53		ug/L		NC	20
Boron	32	J B	<13		ug/L		NC	20
Cadmium	<0.17		<0.17		ug/L		NC	20
Calcium	<44		<44		ug/L		NC	20
Chromium	<1.1		<1.1		ug/L		NC	20
Cobalt	<0.40		<0.40		ug/L		NC	20
Copper	<0.50		<0.50		ug/L		NC	20
Iron	<47		<47		ug/L		NC	20
Lead	<0.19		<0.19		ug/L		NC	20
Lithium	<2.5	^+	<2.5	^+	ug/L		NC	20
Magnesium	<49		<49		ug/L		NC	20
Manganese	<0.79		<0.79		ug/L		NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254004-1 DU
Matrix: Water
Analysis Batch: 781573

Client Sample ID: EB-SMW-01_20240723
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Molybdenum	<2.5		<2.5		ug/L		NC	20
Nickel	<0.63		<0.63		ug/L		NC	20
Potassium	<110		<110		ug/L		NC	20
Selenium	<0.98		<0.98		ug/L		NC	20
Silver	<0.12		<0.12		ug/L		NC	20
Sodium	<77		<77		ug/L		NC	20
Strontium	<0.64		<0.64		ug/L		NC	20
Thallium	<0.57		<0.57		ug/L		NC	20
Tin	<1.3		<1.3		ug/L		NC	20
Vanadium	<2.2		<2.2		ug/L		NC	20
Zinc	<6.9		<6.9		ug/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-778269/9
Matrix: Water
Analysis Batch: 778269

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			07/25/24 10:51	1
Chloride	<0.12		1.0	0.12	mg/L			07/25/24 10:51	1
Fluoride	<0.19		1.0	0.19	mg/L			07/25/24 10:51	1
Sulfate	<0.21		1.0	0.21	mg/L			07/25/24 10:51	1

Lab Sample ID: LCS 500-778269/10
Matrix: Water
Analysis Batch: 778269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.2		mg/L		96	90 - 110
Chloride	20.0	19.9		mg/L		99	90 - 110
Fluoride	20.0	20.2		mg/L		101	90 - 110
Sulfate	20.0	20.1		mg/L		101	90 - 110

Lab Sample ID: MB 500-778270/9
Matrix: Water
Analysis Batch: 778270

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			07/25/24 10:51	1
Nitrite as N	<0.070		1.0	0.070	mg/L			07/25/24 10:51	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			07/25/24 10:51	1

Lab Sample ID: LCS 500-778270/10
Matrix: Water
Analysis Batch: 778270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.3		mg/L		97	90 - 110
Nitrite as N	20.0	20.3		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-778270/10
Matrix: Water
Analysis Batch: 778270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	40.0	39.6		mg/L		99	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-779757/1-A
Matrix: Water
Analysis Batch: 779842

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 779757

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/03/24 09:18	08/03/24 11:39	1

Lab Sample ID: LCS 500-779757/2-A
Matrix: Water
Analysis Batch: 779842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 779757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0951		mg/L		95	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-781418/1-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:26	1

Lab Sample ID: LCS 500-781418/2-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.97		mg/L		99	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780961/1-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^- ^1-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:36	1

Lab Sample ID: LCS 500-780961/2-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.367	^1- *- ^-	mg/L		73	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-780255/3
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1

Lab Sample ID: LCS 500-780255/4
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	98.0		mg/L		98	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-778717/1
Matrix: Water
Analysis Batch: 778717

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			07/29/24 05:07	1

Lab Sample ID: LCS 500-778717/2
Matrix: Water
Analysis Batch: 778717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	256		mg/L		102	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-779087/1
Matrix: Water
Analysis Batch: 779087

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			07/30/24 16:42	1

Lab Sample ID: LCS 500-779087/2
Matrix: Water
Analysis Batch: 779087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	189		mg/L		94	80 - 120

Lab Sample ID: 500-254004-1 MS
Matrix: Water
Analysis Batch: 779087

Client Sample ID: EB-SMW-01_20240723
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	<1.9		100	98.0		mg/L		98	75 - 125

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-779001/1
Matrix: Water
Analysis Batch: 779001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			07/29/24 22:23	1

Lab Sample ID: LCS 500-779001/2
Matrix: Water
Analysis Batch: 779001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			3.64	3.29		mg/L		91	85 - 115		

Method: SM 5310C - TOC

Lab Sample ID: MB 500-780802/7
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/08/24 12:59	1

Lab Sample ID: LCS 500-780802/8
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			10.0	10.1		mg/L		101	86 - 116		

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254004-1

Client Sample ID: EB-SMW-01_20240723

Lab Sample ID: 500-254004-1

Date Collected: 07/23/24 14:50

Matrix: Water

Date Received: 07/25/24 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1630			2462	AJD	EET SSM	07/29/24 09:45
Total/NA	Analysis	1630		1	2488	CL	EET SSM	07/30/24 18:54
Total/NA	Analysis	1631E		1	2481	CL	EET SSM	07/30/24 19:47
Total Recoverable	Prep	1638			2463	V1R	EET SSM	07/29/24 12:49
Total Recoverable	Analysis	1638		1	2472	V1R	EET SSM	07/29/24 21:39
Total Recoverable	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Total Recoverable	Analysis	6020B		1	781573	RN	EET CHI	08/14/24 16:22
Total Recoverable	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Total Recoverable	Analysis	SM 2340B		1	781604	DAJ	EET CHI	08/15/24 09:56
Total/NA	Analysis	300.0		1	778269	W1T	EET CHI	07/25/24 11:46
Total/NA	Analysis	300.0		1	778270	W1T	EET CHI	07/25/24 11:46
Total/NA	Prep	Distill/CN			779757	KF	EET CHI	08/03/24 09:18 - 08/03/24 09:48 [1]
Total/NA	Analysis	335.4		1	780196	KF	EET CHI	08/06/24 17:05
Total/NA	Prep	Distill/Ammonia			781418	EB	EET CHI	08/14/24 15:14 - 08/14/24 16:14 [1]
Total/NA	Analysis	350.1		1	781794	KF	EET CHI	08/15/24 17:32
Total/NA	Prep	365.2/365.3/365			780961	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:40 [1]
Total/NA	Analysis	365.1		1	781722	LP	EET CHI	08/13/24 17:41
Total/NA	Analysis	SM 2320B		1	780255	SO	EET CHI	08/06/24 16:43
Total/NA	Analysis	SM 2520B		1	779504	TR	EET CHI	07/29/24 15:18
Total/NA	Analysis	SM 2540C		1	778717	CLB	EET CHI	07/29/24 05:27
Total/NA	Analysis	SM 2540D		1	779087	SO	EET CHI	07/30/24 16:47 - 07/30/24 16:49 [1]
Total/NA	Analysis	SM 4500 S2 F		1	779001	CLB	EET CHI	07/29/24 23:42 - 07/29/24 23:46 [1]
Total/NA	Analysis	SM 5310C		1	780802	TR	EET CHI	08/08/24 15:47

Client Sample ID: EB-SMW-01_20240723_FBLL

Lab Sample ID: 500-254004-2

Date Collected: 07/23/24 14:50

Matrix: Water

Date Received: 07/25/24 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2481	CL	EET SSM	07/30/24 20:29

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254004-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	08-07-24
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	08-07-24
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 1Z09NFTS0103833356	COC No: 500-126351-50241 9
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254004
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: S - H2SO4; N - None; CB - ZnAcetate/NaOH; B - NaOH; D - HNO3; A - HCL

500-254004 COC

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	350.1 Ammonia, 365.1 Phos, TOC SM5310 JC	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, 3500_CR_B; SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	~~SM5310_DOC_C - Organic Carbon, Dissolved (DOC)~~ JC	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	~~6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)~~	~~1638 - Dissolved Uranium only (field filtered)~~	~~3500_CR_B - Dissolved Chromium, Hex (field filtered)~~	~~1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)~~	Total Number of containers	Special Instructions/Note:
			Preservation Code			S	N	CB	B	S	D	D	N	A	D	D	N	N		
1 EB-SMW-01_20240723	07-23-24	14:50	G	Water		✓	✓	✓	✓	JC	✓	✓	✓	✓	JC	JC		JC	13	
2 EB-SMW-01_20240723_FBLL	07-23 24	14:50	G	Water						JC			JC	JC						
			G	Water																
			G	Water																
			G	Water																
			G	Water																
			G	Water																
			G	Water																
			G	Water																
			G	Water																
			G	Water																

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: UPS OVERNIGHT

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	7/24/24 1300	MSG		7/24/24 1300	MSG
2		7/24/24 1700	MSG	1Z09NFTS0103833356	7/24/24 1700	UPS
	Relinquished by	Date/Time:	Company	Received by	Date/Time	Company
				Stephanie Hernandez	7/25/24 1010	EEIA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 1.9+1.8

*updated COC 7/25/24

Ver: 04/02/2024

8/23/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 1Z09NFTS0103833356	COC No: 500-126351-50241 9
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #:
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, 3500_CR_B, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	~~6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)~~	~~1638 - Dissolved Uranium only (field filtered)~~	~~3500_CR_B - Dissolved Chromium, Hex (field filtered)~~	~~1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)~~	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	N		
1 EB-SMW-01_20240723	07-23-24	14.50	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	13	
2 EB-SMW-01_20240723_FBLL	07-23 24	14.50	G	Water											✓						
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Preservation Codes
S - H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A - HCL
Other

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: UPS OVERNIGHT

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	7/24/24 1300	MSG		7/24/24 1300	MSG
2		7/24/24 1700	MSG	1Z09NFTS0103833356	7/24/24 1700	UPS
				Stephanie Hemandez	7/25/24 1010	EEHA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 19-7.8

Ver: 04/02/2024 8/23/2024
UPSNDA

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254004-1

Login Number: 254004
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254004-1

Login Number: 254004
List Number: 2
Creator: Groden, Kyle J

List Source: Eurofins Seattle Specialty Metals
List Creation: 07/26/24 01:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254004 Field Sheet

Date:	7/26/2024
End Time:	15:05
pH Paper Lot:	HC324723
Analyst:	VH

Preservative ID	Preservative Type	Container ID
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254004-J-1	<2				

VH 7.26.24

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500-254004 Field Sheet

Date:	7/26/2024
End Time:	1529
pH Paper Lot:	HC324723
Analyst:	

Preservative ID	Preservative Type	Container ID
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254004-E-1	<2				

7-26-24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/23/2024 4:26:35 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254005-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/23/2024 4:26:35 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Field Data Sheets 42

Job Narrative
500-254005-1

Receipt
The samples were received on 07/25/24 10:10. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7º C.

Metals
Method 1630: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 350-2462 and analytical batch 350-2488 was outside control limits. Sample matrix interference is suspected.

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- MB 350-2462/3-A (Instrument Noise)
- 500-253934-E-3-A (Instrument Noise)
- 500-254020-F-1-A (Instrument Noise)
- CCB (Instrument Noise)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 335.4: The continuing calibration verification (CCV) associated with batch 500-780018 recovered below the lower control limit for Cyanide, Total. The samples associated with this CCV were rerun out of hold with confirming results for the affected analytes; therefore, this data has been reported. The associated samples are impacted:

SMW-01_20240723 (500-254005-1), (CCV 500-779917/28-A), (500-254005-O-1-B MS) and (500-254005-O-1-C MSD)

Method 365.1: ICV recovered low at 76% Recovery. Samples were reprepped out of hold. (ICV 500-781722/9)

Method 365.1: CCV failed low. Samples were reprepped out of hold. (CCV 500-780961/25-A)

Method 365.1: Reanalysis of the following sample was performed outside of the analytical holding time due to QC failure during initial analysis. : SMW-01_20240723 (500-254005-1).Both sets of data are being reported.

Method 365.1: LCS failed low. Samples were reprepped out of hold. Both sets of data are reported. (LCS 500-780961/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254005-1

Client Sample ID: SMW-01_20240723

Lab Sample ID: 500-254005-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.12		0.050	0.022	ng/L	1		1630	Total/NA
Methyl Mercury	0.054		0.050	0.022	ng/L	1		1630	Dissolved
Mercury	1.1		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.37	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	5.1		0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	5.3		0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	140		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	1.1		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	72		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	1300	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	19000		200	44	ug/L	1		6020B	Total Recoverable
Copper	1.4	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	270		100	47	ug/L	1		6020B	Total Recoverable
Lead	0.48	J	0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	11		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	9000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	39		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	5.8		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	3400		500	110	ug/L	1		6020B	Total Recoverable
Sodium	58000	B	200	77	ug/L	1		6020B	Total Recoverable
Strontium	310		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	1.2		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	69		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	1300	B	50	13	ug/L	1		6020B	Dissolved
Calcium	18000		200	44	ug/L	1		6020B	Dissolved
Lithium	11		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	9000		200	49	ug/L	1		6020B	Dissolved
Manganese	28		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	6.2		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	3300		500	110	ug/L	1		6020B	Dissolved
Sodium	58000	B	200	77	ug/L	1		6020B	Dissolved
Strontium	310		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	83		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	4.6		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.66	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	13		1.0	0.21	mg/L	1		300.0	Total/NA
Ammonia	0.18	J	0.20	0.10	mg/L	1		350.1	Total/NA
Phosphorus as P	0.027	J ^1- ^- *-	0.050	0.024	mg/L	1		365.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client Sample ID: SMW-01_20240723 (Continued)

Lab Sample ID: 500-254005-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus as P	0.090	H	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	190		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	180		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Carbonate Alkalinity as CaCO3	5.1		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	230		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	3.8	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	0.99	J	1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	1.1		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: SMW-01_20240723_FBLL

Lab Sample ID: 500-254005-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.20	J	0.50	0.20	ng/L	1		1631E	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254005-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254005-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254005-1	SMW-01_20240723	Water	07/23/24 13:20	07/25/24 10:10
500-254005-2	SMW-01_20240723_FBLL	Water	07/23/24 13:20	07/25/24 10:10

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254005-1

Client Sample ID: SMW-01_20240723

Lab Sample ID: 500-254005-1

Date Collected: 07/23/24 13:20

Matrix: Water

Date Received: 07/25/24 10:10

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.12**		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 16:41	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.054**		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 19:24	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.1**		0.50	0.20	ng/L			07/30/24 20:33	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.37**	**J**	0.50	0.20	ng/L			07/30/24 20:37	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**5.1**		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 21:43	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**5.3**		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 21:06	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**140**		100	25	ug/L		08/13/24 09:16	08/13/24 17:50	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:50	1
Arsenic	**1.1**		1.0	0.23	ug/L		08/13/24 09:16	08/13/24 17:50	1
Barium	**72**		2.5	0.73	ug/L		08/13/24 09:16	08/13/24 17:50	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 09:16	08/13/24 17:50	1
Boron	**1300**	**B**	50	13	ug/L		08/13/24 09:16	08/13/24 17:50	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 09:16	08/13/24 17:50	1
Calcium	**19000**		200	44	ug/L		08/13/24 09:16	08/13/24 17:50	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 09:16	08/13/24 17:50	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 09:16	08/13/24 17:50	1
Copper	**1.4**	**J**	2.0	0.50	ug/L		08/13/24 09:16	08/13/24 17:50	1
Iron	**270**		100	47	ug/L		08/13/24 09:16	08/13/24 17:50	1
Lead	**0.48**	**J**	0.50	0.19	ug/L		08/13/24 09:16	08/13/24 17:50	1
Lithium	**11**		10	2.5	ug/L		08/13/24 09:16	08/14/24 12:34	1
Magnesium	**9000**		200	49	ug/L		08/13/24 09:16	08/13/24 17:50	1
Manganese	**39**		2.5	0.79	ug/L		08/13/24 09:16	08/13/24 17:50	1
Molybdenum	**5.8**		5.0	2.5	ug/L		08/13/24 09:16	08/13/24 17:50	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 09:16	08/13/24 17:50	1
Potassium	**3400**		500	110	ug/L		08/13/24 09:16	08/13/24 17:50	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 09:16	08/13/24 17:50	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 09:16	08/13/24 17:50	1
Sodium	**58000**	**B**	200	77	ug/L		08/13/24 09:16	08/13/24 17:50	1
Strontium	**310**		4.0	0.64	ug/L		08/13/24 09:16	08/13/24 17:50	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 09:16	08/13/24 17:50	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:50	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 09:16	08/13/24 17:50	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 09:16	08/13/24 17:50	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254005-1

Client Sample ID: SMW-01_20240723

Lab Sample ID: 500-254005-1

Date Collected: 07/23/24 13:20

Matrix: Water

Date Received: 07/25/24 10:10

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 09:16	08/13/24 17:57	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:57	1
Arsenic	**1.2**		1.0	0.23	ug/L		08/13/24 09:16	08/13/24 17:57	1
Barium	**69**		2.5	0.73	ug/L		08/13/24 09:16	08/13/24 17:57	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 09:16	08/13/24 17:57	1
Boron	**1300**	**B**	50	13	ug/L		08/13/24 09:16	08/13/24 17:57	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 09:16	08/13/24 17:57	1
Calcium	**18000**		200	44	ug/L		08/13/24 09:16	08/13/24 17:57	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 09:16	08/13/24 17:57	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 09:16	08/13/24 17:57	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 09:16	08/13/24 17:57	1
Iron	<47		100	47	ug/L		08/13/24 09:16	08/13/24 17:57	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 09:16	08/13/24 17:57	1
Lithium	**11**		10	2.5	ug/L		08/13/24 09:16	08/14/24 12:36	1
Magnesium	**9000**		200	49	ug/L		08/13/24 09:16	08/13/24 17:57	1
Manganese	**28**		2.5	0.79	ug/L		08/13/24 09:16	08/13/24 17:57	1
Molybdenum	**6.2**		5.0	2.5	ug/L		08/13/24 09:16	08/13/24 17:57	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 09:16	08/13/24 17:57	1
Potassium	**3300**		500	110	ug/L		08/13/24 09:16	08/13/24 17:57	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 09:16	08/13/24 17:57	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 09:16	08/13/24 17:57	1
Sodium	**58000**	**B**	200	77	ug/L		08/13/24 09:16	08/13/24 17:57	1
Strontium	**310**		4.0	0.64	ug/L		08/13/24 09:16	08/13/24 17:57	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 09:16	08/13/24 17:57	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:57	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 09:16	08/13/24 17:57	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 09:16	08/13/24 17:57	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**83**		0.91	0.46	mg/L		08/13/24 09:16	08/14/24 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			07/25/24 12:02	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			07/25/24 12:02	1
Chloride (EPA 300.0)	**4.6**		1.0	0.12	mg/L			07/25/24 12:02	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			07/25/24 12:02	1
Fluoride (EPA 300.0)	**0.66**	**J**	1.0	0.19	mg/L			07/25/24 12:02	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			07/25/24 12:02	1
Sulfate (EPA 300.0)	**13**		1.0	0.21	mg/L			07/25/24 12:02	1
Cyanide, Total (EPA 335.4)	<0.0036	^-	0.0050	0.0036	mg/L		08/05/24 10:23	08/05/24 15:14	1
Ammonia (EPA 350.1)	**0.18**	**J**	0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:32	1
Phosphorus as P (EPA 365.1)	**0.027**	**J ^1- ^- *-**	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:42	1
Phosphorus as P (EPA 365.1)	**0.090**	**H**	0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:08	1
Alkalinity (SM 2320B)	**190**		5.0	3.7	mg/L			08/06/24 16:48	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**180**		5.0	3.7	mg/L			08/06/24 16:48	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	**5.1**		5.0	3.7	mg/L			08/06/24 16:48	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254005-1

Client Sample ID: SMW-01_20240723
Date Collected: 07/23/24 13:20
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254005-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			07/29/24 15:15	1
Total Dissolved Solids (SM 2540C)	**230**		10	4.3	mg/L			07/26/24 03:34	1
Total Suspended Solids (SM 2540D)	**3.8**	**J**	5.0	1.9	mg/L			07/30/24 16:50	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			07/29/24 23:46	1
Total Organic Carbon (SM 5310C)	**0.99**	**J**	1.0	0.47	mg/L			08/08/24 16:14	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**1.1**		1.0	0.47	mg/L			07/29/24 00:23	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254005-1

Client Sample ID: SMW-01_20240723_FBLL
Date Collected: 07/23/24 13:20
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254005-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	J	0.50	0.20	ng/L			08/02/24 17:25	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254005-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Dissolved	Water	1630	
500-254005-1	SMW-01_20240723	Total/NA	Water	1630	
MB 350-2462/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2462/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2462/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2462/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2462/5-A	Lab Control Sample Dup	Total/NA	Water	1630	
500-254005-1 MS	SMW-01_20240723	Total/NA	Water	1630	
500-254005-1 MSD	SMW-01_20240723	Total/NA	Water	1630	

Prep Batch: 2463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Dissolved	Water	1638	
500-254005-1	SMW-01_20240723	Total Recoverable	Water	1638	
MB 350-2463/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2463/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2463/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2463/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Dissolved	Water	1638	2463
500-254005-1	SMW-01_20240723	Total Recoverable	Water	1638	2463
MB 350-2463/1-A	Method Blank	Total Recoverable	Water	1638	2463
MB 350-2463/2-A	Method Blank	Total Recoverable	Water	1638	2463
LCS 350-2463/3-A	Lab Control Sample	Total Recoverable	Water	1638	2463
LCSD 350-2463/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2463

Analysis Batch: 2481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Dissolved	Water	1631E	
500-254005-1	SMW-01_20240723	Total/NA	Water	1631E	
MB 350-2481/52	Method Blank	Total/NA	Water	1631E	
MB 350-2481/53	Method Blank	Total/NA	Water	1631E	
MB 350-2481/54	Method Blank	Total/NA	Water	1631E	
LCS 350-2481/55	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2481/56	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Dissolved	Water	1630	2462
500-254005-1	SMW-01_20240723	Total/NA	Water	1630	2462
MB 350-2462/1-A	Method Blank	Total/NA	Water	1630	2462
MB 350-2462/2-A	Method Blank	Total/NA	Water	1630	2462
MB 350-2462/3-A	Method Blank	Total/NA	Water	1630	2462
LCS 350-2462/4-A	Lab Control Sample	Total/NA	Water	1630	2462
LCSD 350-2462/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2462
500-254005-1 MS	SMW-01_20240723	Total/NA	Water	1630	2462
500-254005-1 MSD	SMW-01_20240723	Total/NA	Water	1630	2462

Metals

Analysis Batch: 2500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-2	SMW-01_20240723_FBLL	Total/NA	Water	1631E	
MB 350-2500/40	Method Blank	Total/NA	Water	1631E	
MB 350-2500/41	Method Blank	Total/NA	Water	1631E	
MB 350-2500/42	Method Blank	Total/NA	Water	1631E	
LCS 350-2500/43	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2500/44	Lab Control Sample Dup	Total/NA	Water	1631E	

Prep Batch: 781119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Dissolved	Water	3005A	
500-254005-1	SMW-01_20240723	Total Recoverable	Water	3005A	
MB 500-781119/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781119/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 781318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Dissolved	Water	6020B	781119
500-254005-1	SMW-01_20240723	Total Recoverable	Water	6020B	781119
MB 500-781119/1-A	Method Blank	Total Recoverable	Water	6020B	781119
LCS 500-781119/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781119

Analysis Batch: 781363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total Recoverable	Water	SM 2340B	781119

Analysis Batch: 781422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Dissolved	Water	6020B	781119
500-254005-1	SMW-01_20240723	Total Recoverable	Water	6020B	781119

General Chemistry

Analysis Batch: 778269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	300.0	
MB 500-778269/9	Method Blank	Total/NA	Water	300.0	
LCS 500-778269/10	Lab Control Sample	Total/NA	Water	300.0	
500-254005-1 MS	SMW-01_20240723	Total/NA	Water	300.0	
500-254005-1 MSD	SMW-01_20240723	Total/NA	Water	300.0	

Analysis Batch: 778270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	300.0	
MB 500-778270/9	Method Blank	Total/NA	Water	300.0	
LCS 500-778270/10	Lab Control Sample	Total/NA	Water	300.0	
500-254005-1 MS	SMW-01_20240723	Total/NA	Water	300.0	
500-254005-1 MSD	SMW-01_20240723	Total/NA	Water	300.0	

Analysis Batch: 778480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 778480 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-778480/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-778480/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 778742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Dissolved	Water	SM 5310C	
MB 500-778742/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-778742/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 779001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	SM 4500 S2 F	
MB 500-779001/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-779001/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 779087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	SM 2540D	
MB 500-779087/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-779087/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 779504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	SM 2520B	

Prep Batch: 779917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	Distill/CN	
MB 500-779917/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-779917/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
500-254005-1 MS	SMW-01_20240723	Total/NA	Water	Distill/CN	
500-254005-1 MSD	SMW-01_20240723	Total/NA	Water	Distill/CN	

Analysis Batch: 780018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	335.4	779917
MB 500-779917/1-A	Method Blank	Total/NA	Water	335.4	779917
LCS 500-779917/2-A	Lab Control Sample	Total/NA	Water	335.4	779917
500-254005-1 MS	SMW-01_20240723	Total/NA	Water	335.4	779917
500-254005-1 MSD	SMW-01_20240723	Total/NA	Water	335.4	779917

Analysis Batch: 780255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	SM 2320B	
MB 500-780255/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-780255/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 780802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	SM 5310C	
MB 500-780802/7	Method Blank	Total/NA	Water	SM 5310C	

General Chemistry (Continued)

Analysis Batch: 780802 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-780802/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 780961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	365.2/365.3/365	
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Prep Batch: 781418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	Distill/Ammonia	
MB 500-781418/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 781722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	365.1	780961
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.1	780961
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.1	780961

Analysis Batch: 781794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	350.1	781418
MB 500-781418/1-A	Method Blank	Total/NA	Water	350.1	781418
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	350.1	781418

Prep Batch: 782810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	365.2/365.3/365	
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 782997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254005-1	SMW-01_20240723	Total/NA	Water	365.1	782810
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.1	782810
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.1	782810

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2462/1-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:20	1

Lab Sample ID: MB 350-2462/2-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:30	1

Lab Sample ID: MB 350-2462/3-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:40	1

Lab Sample ID: LCS 350-2462/4-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2462

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl Mercury			1.00	0.949		ng/L		95	65 - 135		

Lab Sample ID: LCSD 350-2462/5-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2462

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury			1.00	0.904		ng/L		90	65 - 135	5	35

Lab Sample ID: 500-254005-1 MS
Matrix: Water
Analysis Batch: 2488

Client Sample ID: SMW-01_20240723
Prep Type: Total/NA
Prep Batch: 2462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl Mercury	0.12		1.00	0.887		ng/L		76	65 - 135		

Lab Sample ID: 500-254005-1 MSD
Matrix: Water
Analysis Batch: 2488

Client Sample ID: SMW-01_20240723
Prep Type: Total/NA
Prep Batch: 2462

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	0.12		1.00	0.942		ng/L		82	65 - 135	6	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2481/52
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 14:45	1

Lab Sample ID: MB 350-2481/53
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 14:49	1

Lab Sample ID: MB 350-2481/54
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 14:53	1

Lab Sample ID: LCS 350-2481/55
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.54		ng/L		91	77 - 123

Lab Sample ID: LCSD 350-2481/56
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.57		ng/L		91	77 - 123	1	24

Lab Sample ID: MB 350-2500/40
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:16	1

Lab Sample ID: MB 350-2500/41
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:20	1

Lab Sample ID: MB 350-2500/42
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:24	1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: LCS 350-2500/43
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.50		ng/L		90	77 - 123

Lab Sample ID: LCSD 350-2500/44
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.47		ng/L		89	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2463/1-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 17:31	1

Lab Sample ID: MB 350-2463/2-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 17:35	1

Lab Sample ID: LCS 350-2463/3-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	23.8		ug/L		95	85 - 115

Lab Sample ID: LCSD 350-2463/4-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	23.1		ug/L		92	85 - 115	3	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781119/1-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 09:16	08/13/24 17:21	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:21	1
Arsenic	<0.23		1.0	0.23	ug/L		08/13/24 09:16	08/13/24 17:21	1
Barium	<0.73		2.5	0.73	ug/L		08/13/24 09:16	08/13/24 17:21	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-781119/1-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 09:16	08/13/24 17:21	1
Boron	36.6	J	50	13	ug/L		08/13/24 09:16	08/13/24 17:21	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 09:16	08/13/24 17:21	1
Calcium	<44		200	44	ug/L		08/13/24 09:16	08/13/24 17:21	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 09:16	08/13/24 17:21	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 09:16	08/13/24 17:21	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 09:16	08/13/24 17:21	1
Iron	<47		100	47	ug/L		08/13/24 09:16	08/13/24 17:21	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 09:16	08/13/24 17:21	1
Lithium	<2.5		10	2.5	ug/L		08/13/24 09:16	08/13/24 17:21	1
Magnesium	<49		200	49	ug/L		08/13/24 09:16	08/13/24 17:21	1
Manganese	<0.79		2.5	0.79	ug/L		08/13/24 09:16	08/13/24 17:21	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 09:16	08/13/24 17:21	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 09:16	08/13/24 17:21	1
Potassium	<110		500	110	ug/L		08/13/24 09:16	08/13/24 17:21	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 09:16	08/13/24 17:21	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 09:16	08/13/24 17:21	1
Sodium	179	J	200	77	ug/L		08/13/24 09:16	08/13/24 17:21	1
Strontium	<0.64		4.0	0.64	ug/L		08/13/24 09:16	08/13/24 17:21	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 09:16	08/13/24 17:21	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:21	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 09:16	08/13/24 17:21	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 09:16	08/13/24 17:21	1

Lab Sample ID: LCS 500-781119/2-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2040		ug/L		102	80 - 120
Antimony	500	502		ug/L		100	80 - 120
Arsenic	100	97.8		ug/L		98	80 - 120
Barium	500	528		ug/L		106	80 - 120
Beryllium	50.0	52.9		ug/L		106	80 - 120
Boron	1000	1070		ug/L		107	80 - 120
Cadmium	50.0	50.2		ug/L		100	80 - 120
Calcium	10000	8640		ug/L		86	80 - 120
Chromium	200	209		ug/L		105	80 - 120
Cobalt	500	533		ug/L		107	80 - 120
Copper	250	259		ug/L		103	80 - 120
Iron	1000	1050		ug/L		105	80 - 120
Lead	100	102		ug/L		102	80 - 120
Lithium	100	116		ug/L		116	80 - 120
Magnesium	10000	10700		ug/L		107	80 - 120
Manganese	500	520		ug/L		104	80 - 120
Molybdenum	1000	972		ug/L		97	80 - 120
Nickel	500	515		ug/L		103	80 - 120
Potassium	10000	10400		ug/L		104	80 - 120
Selenium	100	98.1		ug/L		98	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781119/2-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	50.0	49.6		ug/L		99	80 - 120
Sodium	10000	10600		ug/L		106	80 - 120
Strontium	1000	988		ug/L		99	80 - 120
Thallium	100	104		ug/L		104	80 - 120
Tin	1000	992		ug/L		99	80 - 120
Vanadium	500	518		ug/L		104	80 - 120
Zinc	500	499		ug/L		100	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-778269/9
Matrix: Water
Analysis Batch: 778269

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			07/25/24 10:51	1
Chloride	<0.12		1.0	0.12	mg/L			07/25/24 10:51	1
Fluoride	<0.19		1.0	0.19	mg/L			07/25/24 10:51	1
Sulfate	<0.21		1.0	0.21	mg/L			07/25/24 10:51	1

Lab Sample ID: LCS 500-778269/10
Matrix: Water
Analysis Batch: 778269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.2		mg/L		96	90 - 110
Chloride	20.0	19.9		mg/L		99	90 - 110
Fluoride	20.0	20.2		mg/L		101	90 - 110
Sulfate	20.0	20.1		mg/L		101	90 - 110

Lab Sample ID: 500-254005-1 MS
Matrix: Water
Analysis Batch: 778269

Client Sample ID: SMW-01_20240723
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	<0.18		10.0	8.99		mg/L		90	80 - 120
Chloride	4.6		10.0	14.1		mg/L		95	80 - 120
Fluoride	0.66	J	10.0	10.2		mg/L		95	80 - 120
Sulfate	13		10.0	22.1		mg/L		91	80 - 120

Lab Sample ID: 500-254005-1 MSD
Matrix: Water
Analysis Batch: 778269

Client Sample ID: SMW-01_20240723
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	<0.18		10.0	9.11		mg/L		91	80 - 120	1	20
Chloride	4.6		10.0	14.2		mg/L		96	80 - 120	1	20
Fluoride	0.66	J	10.0	10.3		mg/L		96	80 - 120	1	20
Sulfate	13		10.0	22.1		mg/L		92	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-778270/9
Matrix: Water
Analysis Batch: 778270

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			07/25/24 10:51	1
Nitrite as N	<0.070		1.0	0.070	mg/L			07/25/24 10:51	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			07/25/24 10:51	1

Lab Sample ID: LCS 500-778270/10
Matrix: Water
Analysis Batch: 778270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.3		mg/L		97	90 - 110
Nitrite as N	20.0	20.3		mg/L		101	90 - 110
Nitrate Nitrite as N	40.0	39.6		mg/L		99	90 - 110

Lab Sample ID: 500-254005-1 MS
Matrix: Water
Analysis Batch: 778270

Client Sample ID: SMW-01_20240723
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	<0.043		10.0	8.95		mg/L		90	80 - 120
Nitrite as N	<0.070		10.0	9.45		mg/L		95	80 - 120
Nitrate Nitrite as N	<0.070		20.0	18.4		mg/L		92	80 - 120

Lab Sample ID: 500-254005-1 MSD
Matrix: Water
Analysis Batch: 778270

Client Sample ID: SMW-01_20240723
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.043		10.0	8.98		mg/L		90	80 - 120	0	20
Nitrite as N	<0.070		10.0	9.53		mg/L		95	80 - 120	1	20
Nitrate Nitrite as N	<0.070		20.0	18.5		mg/L		93	80 - 120	1	20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-779917/1-A
Matrix: Water
Analysis Batch: 780018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 779917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/05/24 10:23	08/05/24 13:46	1

Lab Sample ID: LCS 500-779917/2-A
Matrix: Water
Analysis Batch: 780018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 779917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0974		mg/L		97	90 - 110

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: 500-254005-1 MS
Matrix: Water
Analysis Batch: 780018

Client Sample ID: SMW-01_20240723
Prep Type: Total/NA
Prep Batch: 779917

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.0036	^-	0.100	0.0935	^-	mg/L		94	90 - 110

Lab Sample ID: 500-254005-1 MSD
Matrix: Water
Analysis Batch: 780018

Client Sample ID: SMW-01_20240723
Prep Type: Total/NA
Prep Batch: 779917

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.0036	^-	0.100	0.0899	^-	mg/L		90	90 - 110	4	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-781418/1-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:26	1

Lab Sample ID: LCS 500-781418/2-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.97		mg/L		99	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780961/1-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^- ^1-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:36	1

Lab Sample ID: LCS 500-780961/2-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.367	^1- *- ^-	mg/L		73	88 - 123

Lab Sample ID: MB 500-782810/1-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:03	1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCS 500-782810/2-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.889		mg/L		89	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-780255/3
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1

Lab Sample ID: LCS 500-780255/4
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	98.0		mg/L		98	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-778480/1
Matrix: Water
Analysis Batch: 778480

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			07/26/24 02:38	1

Lab Sample ID: LCS 500-778480/2
Matrix: Water
Analysis Batch: 778480

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	240		mg/L		96	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-779087/1
Matrix: Water
Analysis Batch: 779087

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			07/30/24 16:42	1

Lab Sample ID: LCS 500-779087/2
Matrix: Water
Analysis Batch: 779087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	189		mg/L		94	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-779001/1
Matrix: Water
Analysis Batch: 779001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			07/29/24 22:23	1

Lab Sample ID: LCS 500-779001/2
Matrix: Water
Analysis Batch: 779001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.29		mg/L		91	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-780802/7
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/08/24 12:59	1

Lab Sample ID: LCS 500-780802/8
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-778742/7
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			07/28/24 18:19	1

Lab Sample ID: LCS 500-778742/8
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.3		mg/L		103	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254005-1

Client Sample ID: SMW-01_20240723

Date Collected: 07/23/24 13:20
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254005-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2462	AJD	EET SSM	07/29/24 09:45
Dissolved	Analysis	1630		1	2488	CL	EET SSM	07/30/24 19:24
Total/NA	Prep	1630			2462	AJD	EET SSM	07/29/24 09:45
Total/NA	Analysis	1630		1	2488	CL	EET SSM	07/30/24 16:41
Dissolved	Analysis	1631E		1	2481	CL	EET SSM	07/30/24 20:37
Total/NA	Analysis	1631E		1	2481	CL	EET SSM	07/30/24 20:33
Dissolved	Prep	1638			2463	V1R	EET SSM	07/29/24 12:49
Dissolved	Analysis	1638		1	2472	V1R	EET SSM	07/29/24 21:06
Total Recoverable	Prep	1638			2463	V1R	EET SSM	07/29/24 12:49
Total Recoverable	Analysis	1638		1	2472	V1R	EET SSM	07/29/24 21:43
Dissolved	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 ¹
Dissolved	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 17:57
Dissolved	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 ¹
Dissolved	Analysis	6020B		1	781422	RN	EET CHI	08/14/24 12:36
Total Recoverable	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 ¹
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 17:50
Total Recoverable	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 ¹
Total Recoverable	Analysis	6020B		1	781422	RN	EET CHI	08/14/24 12:34
Total Recoverable	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 ¹
Total Recoverable	Analysis	SM 2340B		1	781363	DAJ	EET CHI	08/14/24 10:25
Total/NA	Analysis	300.0		1	778269	W1T	EET CHI	07/25/24 12:02
Total/NA	Analysis	300.0		1	778270	W1T	EET CHI	07/25/24 12:02
Total/NA	Prep	Distill/CN			779917	AC	EET CHI	08/05/24 10:23 - 08/05/24 10:53 ¹
Total/NA	Analysis	335.4		1	780018	KF	EET CHI	08/05/24 15:14
Total/NA	Prep	Distill/Ammonia			781418	EB	EET CHI	08/14/24 15:14 - 08/14/24 16:14 ¹
Total/NA	Analysis	350.1		1	781794	KF	EET CHI	08/15/24 17:32
Total/NA	Prep	365.2/365.3/365			780961	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:40 ¹
Total/NA	Analysis	365.1		1	781722	LP	EET CHI	08/13/24 17:42
Total/NA	Prep	365.2/365.3/365			782810	ER	EET CHI	08/22/24 14:15 - 08/22/24 18:15 ¹
Total/NA	Analysis	365.1		1	782997	KF	EET CHI	08/23/24 12:08
Total/NA	Analysis	SM 2320B		1	780255	SO	EET CHI	08/06/24 16:48
Total/NA	Analysis	SM 2520B		1	779504	TR	EET CHI	07/29/24 15:15
Total/NA	Analysis	SM 2540C		1	778480	CLB	EET CHI	07/26/24 03:34
Total/NA	Analysis	SM 2540D		1	779087	SO	EET CHI	07/30/24 16:50 - 07/30/24 16:52 ¹
Total/NA	Analysis	SM 4500 S2 F		1	779001	CLB	EET CHI	07/29/24 23:46 - 07/29/24 23:50 ¹
Dissolved	Analysis	SM 5310C		1	778742	TR	EET CHI	07/29/24 00:23
Total/NA	Analysis	SM 5310C		1	780802	TR	EET CHI	08/08/24 16:14

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254005-1

Client Sample ID: SMW-01_20240723_FBLL

Date Collected: 07/23/24 13:20
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254005-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 17:25

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254005-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	08-07-24
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	08-07-24
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 1Z09NFTS0113884765	COC No: 500-126351-50241 43
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E-Mail: Sandra Fredrick@et eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254005
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N - None
CB ZnAcetate/NaOH
B - NaOH
D HNO3
A - HCL

500-254005 COC

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	350.1 Ammonia, 365.1 Phos, TOC SM5310 (C)	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, 2500_CR_B (C)	SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	2500_CR_B - Dissolved Chromium, Hex (field filtered) (C)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code		S	N	CB	B	S	D	D	N	A	D	D	N	N		
1 SMW-01_20240723	7-23-24	13:20	G	Water		X	X	X	X	X	X	X	X	X	X	X	X	X	18	
2 SMW-01_20240723_FBLL	7.23-24	13:20	G	Water									X						2	
			G	Water																
			G	Water																
			G	Water																
			G	Water																
			G	Water																
			G	Water																
			G	Water																
			G	Water																
			G	Water																

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: UPS OVERNIGHT

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jacob Dean	7/24/24 1300	MSG		7/24/24 1300	MSG
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	7/24/24 1700	MSG	1Z09NFTS0113884765	7/24/24 1700	UPS
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			Stephanie Hernandez	7/25/24 1010	EEA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.8+2.7

Ver: 04/02/2024

*updated COC 7/25/24

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 1Z09NFT50138847G5	COC No: 500-126351-50241 44
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254005
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S - H2SO4; N None; CB - ZnAcetate/NaOH; B - NaOH; D - HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other:
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A		
SMW-01_20240723	7-23-24	13:20	G	Water		X	1	
			G	Water				
			G	Water				
			G	Water				
			G	Water				
			G	Water				
			G	Water				
			G	Water				
			G	Water				
			G	Water				
			G	Water				

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: UPS OVERNIGHT

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	7/24/24 1500	MSG		7/24/24 1300	MSG
2		7/24/24 1700	MSG	1Z09NFT50138847G5	7/24/24 1700	UPS
3						

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 04/02/2024

*updated COC 7/25/24

8/23/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 1Z09NFT50113884765	COC No: 500-126351-50241 43
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254005
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A - HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, 3500_CR_B, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	3500_CR_B - Dissolved Chromium, Hex (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	N		
1	SMW-01_20240723	7-23-24	13:20	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	18	
2	SMW-01_20240723_FBLL	7.23-24	13:20	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: UPS OVERNIGHT

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	7/24/24 1300	MSG		7/24/24 1300	MSG
2		7/24/24 1700	MSG	1Z09NFT50113884765	7/24/24 1700	UPS
3		Date/Time	Company	Stephanie Herman	7/25/24 1010	BEM

Custody Seals Intact Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks. 2.8-3.2.1 USAT

UPS NDA

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 1Z09NFT50138847 65	COC No: 500-126351-50241 44
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S - H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
1 SMW-01_20240723	7-23-24	13:20	G	Water			X	1	
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: UPS OVERNIGHT

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	7/24/24 1300	MSG		7/24/24 1300	MSG
2		7/24/24 1700	MSG	1Z09NFT50138847 65	7/24/24 1700	UPS
3				Stephanie Herr	7/25/24 1010	ETR

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM	Carrier Tracking No(s)	COC No
		Fredrick, Sandie		500-190910.1
Client Contact	**Phone**	**E-Mail**	**State of Origin**	**Page**
Shipping/Receiving		Sandra.Fredrick@et.eurofinsus.com	Michigan	Page 1 of 1
Company		**Accreditations Required (See note)**		**Job #**
Eurofins Environment Testing Northwest,		State - Wisconsin		500-254005-1
Address	**Due Date Requested:**			
5755 8th Street East, ,	8/14/2024			
City	**TAT Requested (days):**			
Tacoma				
State, Zip				
WA, 98424				
Phone	**PO #**			
253-922-2310(Tel)				
Email	**WO #**			
Project Name	**Project #**			
White Pines, MI	50023455			
Site	**SSOW#**			

Preservation Codes:
-

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS)	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
SMW-01_20240723 (500-254005-1)	7/23/24	13:20 Eastern		Water			X	X	X	X	X	X	8	
SMW-01_20240723_FBLL (500-254005-2)	7/23/24	13:20 Eastern		Water				X					2	

Therm. ID: SC0242 **Cust. Seal:** (Y) / N
Uncorr./Corr. Temp 1.0/1.2 °C 0.4
Delivery: UPS / (FedEx) / Other ____
Ice Type: Blue / Dry / (Wet) / None
Label Ver. _____ **Packing:** Box

Note Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Rhi Scott	7/25/24 1530		Kyle Grader	7-26-24 0940	EETNW
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		705176 2043 (41, 52, 63)

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM	Carrier Tracking No(s)	COC No
		Fredrick, Sandie		500-190907.1
Client Contact	**Phone**	**E-Mail**	**State of Origin**	**Page**
Shipping/Receiving		Sandra.Fredrick@et.eurofinsus.com	Michigan	Page 1 of 1
Company		**Accreditations Required (See note)**		**Job #**
Eurofins Environment Testing Northwest,		State - Wisconsin		500-254002-1
Address	**Due Date Requested:**			
5755 8th Street East, ,	8/14/2024			
City	**TAT Requested (days):**			
Tacoma				
State, Zip				
WA, 98424				
Phone	**PO #**			
253-922-2310(Tel)				
Email	**WO #**			
Project Name	**Project #**			
White Pines, MI	50023455			
Site	**SSOW#**			

Analysis Requested

Preservation Codes:
-

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
PRC-01_20240722 (500-254002-1)	7/22/24	16:00 Eastern		Water			X	X	X	X	X	X	8	
PRC-01_20240722_FBLL (500-254002-2)	7/22/24	16:00 Eastern		Water				X					2	

Therm. ID: SC0 21.2 **Cust. Seal:** (Y) / N
Uncorr./Corr. Temp 100.4 / 38 °C 6.04
Delivery: UPS / FedEx / Other
Ice Type: Blue / Dry / Wet / None
Label Ver. _____ **Packing:** Bub

Note Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Allie Scott	7/25/24 1530		Kyle Grodzen	7-26-24 0940	EETNW
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		705176204 3 (41, 52, 63)

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-190912.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-254019-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/14/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: White Pines, MI	Project #: 50023455			
Site	SSOW#			

Analysis Requested

Preservation Codes: -

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
				Preservation Code:										
NB1-1_20240724 (500-254019-1)	7/24/24	09:10 Eastern		Water			X	X	X	X	X	X	8	
NB1-1_20240724_FBLL (500-254019-2)	7/24/24	09:10 Eastern		Water				X					2	

Therm. ID: SC02.1.2 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 1.0/1.0 / 1.2/0.8 °C
Delivery: UPS / FedEx / Other:
Ice Type: Blue / Dry / (Wet) / None
Label Ver.: _____ Packing: Bag

Note Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	7/25/24 1530		Kyle Gruber	7-26-24 0940	BETW
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks
		7051 7620 43 (41, 52, 63)

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-190905.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-253934-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/13/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: FOTH - White Pines, MI	Project #: 50023463			
Site	SSOW#			

Analysis Requested

Preservation Codes: -

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (FF)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X									X	
WP-583-233-284.4-2 (500-253934-1)	7/22/24	10:45 Eastern		Water			X	X	X	X	X	X			8	
WP-583-233-284.4-R (500-253934-2)	7/22/24	10:45 Eastern		Water				X							2	
WP-583-233-284.4-1 (500-253934-3)	7/22/24	08:35 Eastern		Water			X	X	X			X	X	X	8	
WP-583-233-284.4-1-FB (500-253934-4)	7/22/24	08:35 Eastern		Water				X							2	

Therm. ID: SC0L13 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 1,0,2,9,2 1.2, 8.8, 10.4 °C
Delivery: UPS / (FedEx) / Other _____
Ice Type: Blue / Dry / (Wet) / None
Label Ver.: _____ Packing: Bub

Note Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	7/25/24 1530		[signature] Kyle Godden	7-26-24 0940	EEINW
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 7051762043 (41, 52, 63)

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-190914.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-254021-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/14/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: White Pines, MI	Project #: 50023455			
Site	SSOW#			

Analysis Requested

Preservation Codes: -

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
DUP-01-SW_20240722 (500-254021-1)	7/22/24	Eastern		Water			X	X	X	X	X	X	8	
DUP-01-SW_20240722_FBLL (500-254021-2)	7/22/24	Eastern		Water				X					2	

Therm. ID: SC0 2.1.3 Cust. Seal: Y / N
Uncorr./Corr. Temp 1.0 4.6 / 1.2.6 °C 2.0.4
Delivery: UPS / FedEx / Other
Ice Type: Blue / Dry / Wet / None
Label Ver.: Packing: BL

Note Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	7/25/24 1530		[signature] Kyle Gross	7-26-24 0940	EETNW
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 7031762043(41, 52, 63)

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-190911.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin		Job #: 500-254017-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/7/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: DMRs LL Hg	Project #: 50012933			
Site	SSOW#			

Analysis Requested

Preservation Codes: -

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E_WI/1631E_Prep Mercury, Low Level (CVAFS)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SP107 (500-254017-1)	7/24/24	11:30 Central		Water			X	1	
SP101 (500-254017-2)	7/24/24	11:40 Central		Water			X	1	
SP108 (500-254017-3)	7/24/24	11:50 Central		Water			X	1	
SP704 (500-254017-4)	7/24/24	12:00 Central		Water			X	1	
OF004 (500-254017-5)	7/24/24	12:10 Central		Water			X	1	

Therm. ID: SC0212 Cust. Seal: Y / N
Uncorr./Corr. Temp: 1.0 4.0 / 1.2 0.0 °C
Delivery: UPS / FedEx / Other
Ice Type: Blue / Dry / Wet / None
Label Ver.: Packing: BJB

Note: Since laboratory accr... is subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time:	Company
1	[signature]	7/25/24 1830		[signature] Kyle Groden	7-26-24 0940	EETNW
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks.
		7051 7620 43 (41, 52, 63)

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254005-1

Login Number: 254005
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254005-1

Login Number: 254005
List Number: 2
Creator: Groden, Kyle J

List Source: Eurofins Seattle Specialty Metals
List Creation: 07/26/24 01:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254005 Field Sheet

Date:	7/26/2024
End Time:	15:03
pH Paper Lot:	HC324723
Analyst:	VM

Preservative ID	Preservative Type	Container ID
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254005-K-1	2				
500-254005-J-1	2			VM 7-26-24	

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500-254005 Field Sheet

Date:	7/26/2024
End Time:	1529
pH Paper Lot:	HC324723
Analyst:	JS

Preservative ID	Preservative Type	Container ID
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254005-E-1	<2				
500-254005-F-1	<2				

JS 7-26-24

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/23/2024 4:28:20 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254019-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/23/2024 4:28:20 PM

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Job Narrative
500-254019-1

Receipt
The samples were received on 07/25/24 10:10. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6º C.

Metals
Method 1630: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 350-2462 and analytical batch 350-2488 was outside control limits. Sample matrix interference is suspected.

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- MB 350-2462/3-A (Instrument Noise)
- 500-253934-E-3-A (Instrument Noise)
- 500-254020-F-1-A (Instrument Noise)
- CCB (Instrument Noise)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 365.1: ICV recovered low at 76% Recovery. Samples were reprepped out of hold. (ICV 500-781722/9)

Method 365.1: CCV failed low. Samples were reprepped out of hold. (CCV 500-780961/25-A)

Method 365.1: Reanalysis of the following sample was performed outside of the analytical holding time due to QC failure during initial analysis. : NB1-1_20240724 (500-254019-1).Both sets of data are being reported.

Method 365.1: LCS failed low. Samples were reprepped out of hold. Both sets of data are reported. (LCS 500-780961/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254019-1

Client Sample ID: NB1-1_20240724

Lab Sample ID: 500-254019-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.45	J	0.50	0.20	ng/L	1		1631E	Total/NA
Uranium	0.021	J	0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.023	J	0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	130		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.67	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	880		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	1400	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	97000		200	44	ug/L	1		6020B	Total Recoverable
Copper	2.0		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	430		100	47	ug/L	1		6020B	Total Recoverable
Lithium	25		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	12000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	94		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	12000		500	110	ug/L	1		6020B	Total Recoverable
Sodium	130000	B	200	77	ug/L	1		6020B	Total Recoverable
Strontium	1600		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.69	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	860		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	1500	B	50	13	ug/L	1		6020B	Dissolved
Calcium	97000		200	44	ug/L	1		6020B	Dissolved
Lithium	25		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	12000		200	49	ug/L	1		6020B	Dissolved
Manganese	87		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	13000		500	110	ug/L	1		6020B	Dissolved
Sodium	130000	B	200	77	ug/L	1		6020B	Dissolved
Strontium	1600		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	290		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	2.5		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	230		10	1.2	mg/L	10		300.0	Total/NA
Fluoride	0.53	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	4.2		1.0	0.21	mg/L	1		300.0	Total/NA
Ammonia	1.3		0.20	0.10	mg/L	1		350.1	Total/NA
Phosphorus as P	0.066	^1- ^- *-	0.050	0.024	mg/L	1		365.1	Total/NA
Phosphorus as P	0.13	H	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	240		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	240		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.48		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	820		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	7.0		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Sulfide	1.3		1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NB1-1_20240724 (Continued) — Lab Sample ID: 500-254019-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	3.4		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	2.7		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: NB1-1_20240724_FBLL — Lab Sample ID: 500-254019-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254019-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254019-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254019-1	NB1-1_20240724	Water	07/24/24 09:10	07/25/24 10:10
500-254019-2	NB1-1_20240724_FBLL	Water	07/24/24 09:10	07/25/24 10:10

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254019-1

Client Sample ID: NB1-1_20240724

Date Collected: 07/24/24 09:10
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254019-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 19:35	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 19:45	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.45**	**J**	0.50	0.20	ng/L			07/30/24 20:41	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 20:45	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.021**	**J**	0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 21:46	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.023**	**J**	0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 21:10	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**130**		100	25	ug/L		08/13/24 09:16	08/13/24 17:59	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:59	1
Arsenic	**0.67**	**J**	1.0	0.23	ug/L		08/13/24 09:16	08/13/24 17:59	1
Barium	**880**		2.5	0.73	ug/L		08/13/24 09:16	08/13/24 17:59	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 09:16	08/13/24 17:59	1
Boron	**1400**	**B**	50	13	ug/L		08/13/24 09:16	08/13/24 17:59	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 09:16	08/13/24 17:59	1
Calcium	**97000**		200	44	ug/L		08/13/24 09:16	08/13/24 17:59	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 09:16	08/13/24 17:59	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 09:16	08/13/24 17:59	1
Copper	**2.0**		2.0	0.50	ug/L		08/13/24 09:16	08/13/24 17:59	1
Iron	**430**		100	47	ug/L		08/13/24 09:16	08/13/24 17:59	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 09:16	08/13/24 17:59	1
Lithium	**25**		10	2.5	ug/L		08/13/24 09:16	08/14/24 12:39	1
Magnesium	**12000**		200	49	ug/L		08/13/24 09:16	08/13/24 17:59	1
Manganese	**94**		2.5	0.79	ug/L		08/13/24 09:16	08/13/24 17:59	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 09:16	08/13/24 17:59	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 09:16	08/13/24 17:59	1
Potassium	**12000**		500	110	ug/L		08/13/24 09:16	08/13/24 17:59	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 09:16	08/13/24 17:59	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 09:16	08/13/24 17:59	1
Sodium	**130000**	**B**	200	77	ug/L		08/13/24 09:16	08/13/24 17:59	1
Strontium	**1600**		4.0	0.64	ug/L		08/13/24 09:16	08/13/24 17:59	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 09:16	08/13/24 17:59	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:59	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 09:16	08/13/24 17:59	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 09:16	08/13/24 17:59	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254019-1

Client Sample ID: NB1-1_20240724

Date Collected: 07/24/24 09:10
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254019-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 09:16	08/13/24 18:01	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 09:16	08/13/24 18:01	1
Arsenic	**0.69**	**J**	1.0	0.23	ug/L		08/13/24 09:16	08/13/24 18:01	1
Barium	**860**		2.5	0.73	ug/L		08/13/24 09:16	08/13/24 18:01	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 09:16	08/13/24 18:01	1
Boron	**1500**	**B**	50	13	ug/L		08/13/24 09:16	08/13/24 18:01	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 09:16	08/13/24 18:01	1
Calcium	**97000**		200	44	ug/L		08/13/24 09:16	08/13/24 18:01	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 09:16	08/13/24 18:01	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 09:16	08/13/24 18:01	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 09:16	08/13/24 18:01	1
Iron	<47		100	47	ug/L		08/13/24 09:16	08/13/24 18:01	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 09:16	08/13/24 18:01	1
Lithium	**25**		10	2.5	ug/L		08/13/24 09:16	08/14/24 12:41	1
Magnesium	**12000**		200	49	ug/L		08/13/24 09:16	08/13/24 18:01	1
Manganese	**87**		2.5	0.79	ug/L		08/13/24 09:16	08/13/24 18:01	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 09:16	08/13/24 18:01	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 09:16	08/13/24 18:01	1
Potassium	**13000**		500	110	ug/L		08/13/24 09:16	08/13/24 18:01	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 09:16	08/13/24 18:01	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 09:16	08/13/24 18:01	1
Sodium	**130000**	**B**	200	77	ug/L		08/13/24 09:16	08/13/24 18:01	1
Strontium	**1600**		4.0	0.64	ug/L		08/13/24 09:16	08/13/24 18:01	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 09:16	08/13/24 18:01	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 09:16	08/13/24 18:01	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 09:16	08/13/24 18:01	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 09:16	08/13/24 18:01	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**290**		0.91	0.46	mg/L		08/13/24 09:16	08/14/24 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**2.5**		1.0	0.18	mg/L			07/25/24 20:42	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			07/25/24 20:42	1
Chloride (EPA 300.0)	**230**		10	1.2	mg/L			08/09/24 13:28	10
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			07/25/24 20:42	1
Fluoride (EPA 300.0)	**0.53**	**J**	1.0	0.19	mg/L			07/25/24 20:42	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			07/25/24 20:42	1
Sulfate (EPA 300.0)	**4.2**		1.0	0.21	mg/L			07/25/24 20:42	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/06/24 10:01	08/06/24 14:30	1
Ammonia (EPA 350.1)	**1.3**		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:33	1
Phosphorus as P (EPA 365.1)	**0.066**	**^1- ^- *-**	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:42	1
Phosphorus as P (EPA 365.1)	**0.13**	**H**	0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:09	1
Alkalinity (SM 2320B)	**240**		5.0	3.7	mg/L			08/06/24 19:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**240**		5.0	3.7	mg/L			08/06/24 19:03	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/06/24 19:03	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254019-1

Client Sample ID: NB1-1_20240724
Date Collected: 07/24/24 09:10
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254019-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Salinity (SM 2520B)	0.48		0.33	0.33	psu			07/29/24 15:16	1
Total Dissolved Solids (SM 2540C)	820		10	4.3	mg/L			07/30/24 01:44	1
Total Suspended Solids (SM 2540D)	7.0		5.0	1.9	mg/L			07/31/24 17:43	1
Sulfide (SM 4500 S2 F)	1.3		1.0	0.23	mg/L			07/31/24 23:20	1
Total Organic Carbon (SM 5310C)	3.4		1.0	0.47	mg/L			08/08/24 16:42	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	2.7		1.0	0.47	mg/L			07/29/24 00:51	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254019-1

Client Sample ID: NB1-1_20240724_FBLL

Date Collected: 07/24/24 09:10
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254019-2

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 20:50	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254019-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Dissolved	Water	1630	
500-254019-1	NB1-1_20240724	Total/NA	Water	1630	
MB 350-2462/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2462/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2462/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2462/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2462/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Prep Batch: 2463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Dissolved	Water	1638	
500-254019-1	NB1-1_20240724	Total Recoverable	Water	1638	
MB 350-2463/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2463/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2463/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2463/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Dissolved	Water	1638	2463
500-254019-1	NB1-1_20240724	Total Recoverable	Water	1638	2463
MB 350-2463/1-A	Method Blank	Total Recoverable	Water	1638	2463
MB 350-2463/2-A	Method Blank	Total Recoverable	Water	1638	2463
LCS 350-2463/3-A	Lab Control Sample	Total Recoverable	Water	1638	2463
LCSD 350-2463/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2463

Analysis Batch: 2481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Dissolved	Water	1631E	
500-254019-1	NB1-1_20240724	Total/NA	Water	1631E	
500-254019-2	NB1-1_20240724_FBLL	Total/NA	Water	1631E	
MB 350-2481/52	Method Blank	Total/NA	Water	1631E	
MB 350-2481/53	Method Blank	Total/NA	Water	1631E	
MB 350-2481/54	Method Blank	Total/NA	Water	1631E	
LCS 350-2481/55	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2481/56	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Dissolved	Water	1630	2462
500-254019-1	NB1-1_20240724	Total/NA	Water	1630	2462
MB 350-2462/1-A	Method Blank	Total/NA	Water	1630	2462
MB 350-2462/2-A	Method Blank	Total/NA	Water	1630	2462
MB 350-2462/3-A	Method Blank	Total/NA	Water	1630	2462
LCS 350-2462/4-A	Lab Control Sample	Total/NA	Water	1630	2462
LCSD 350-2462/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2462

Prep Batch: 781119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Dissolved	Water	3005A	
500-254019-1	NB1-1_20240724	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 781119 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-781119/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781119/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 781318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Dissolved	Water	6020B	781119
500-254019-1	NB1-1_20240724	Total Recoverable	Water	6020B	781119
MB 500-781119/1-A	Method Blank	Total Recoverable	Water	6020B	781119
LCS 500-781119/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781119

Analysis Batch: 781363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total Recoverable	Water	SM 2340B	781119

Analysis Batch: 781422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Dissolved	Water	6020B	781119
500-254019-1	NB1-1_20240724	Total Recoverable	Water	6020B	781119

General Chemistry

Analysis Batch: 778450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	300.0	
MB 500-778450/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778450/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	300.0	
MB 500-778451/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778451/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Dissolved	Water	SM 5310C	
MB 500-778742/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-778742/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 778907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	SM 2540C	
MB 500-778907/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-778907/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 779349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	SM 2540D	
MB 500-779349/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-779349/2	Lab Control Sample	Total/NA	Water	SM 2540D	

General Chemistry

Analysis Batch: 779429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	SM 4500 S2 F	
MB 500-779429/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-779429/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 779504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	SM 2520B	
500-254019-1 DU	NB1-1_20240724	Total/NA	Water	SM 2520B	

Prep Batch: 780072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	Distill/CN	
MB 500-780072/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780072/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	335.4	780072
MB 500-780072/1-A	Method Blank	Total/NA	Water	335.4	780072
LCS 500-780072/2-A	Lab Control Sample	Total/NA	Water	335.4	780072

Analysis Batch: 780255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	SM 2320B	
MB 500-780255/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-780255/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 780563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	300.0	
MB 500-780563/67	Method Blank	Total/NA	Water	300.0	
LCS 500-780563/68	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	SM 5310C	
MB 500-780802/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-780802/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 780961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	365.2/365.3/365	
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Prep Batch: 781418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	Distill/Ammonia	
MB 500-781418/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254019-1

General Chemistry

Analysis Batch: 781722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	365.1	780961
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.1	780961
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.1	780961

Analysis Batch: 781794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	350.1	781418
MB 500-781418/1-A	Method Blank	Total/NA	Water	350.1	781418
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	350.1	781418

Prep Batch: 782810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	365.2/365.3/365	
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 782997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254019-1	NB1-1_20240724	Total/NA	Water	365.1	782810
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.1	782810
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.1	782810

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2462/1-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:20	1

Lab Sample ID: MB 350-2462/2-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:30	1

Lab Sample ID: MB 350-2462/3-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:40	1

Lab Sample ID: LCS 350-2462/4-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.949		ng/L		95	65 - 135

Lab Sample ID: LCSD 350-2462/5-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2462

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.904		ng/L		90	65 - 135	5	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2481/52
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 14:45	1

Lab Sample ID: MB 350-2481/53
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 14:49	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2481/54
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 14:53	1

Lab Sample ID: LCS 350-2481/55
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.54		ng/L		91	77 - 123

Lab Sample ID: LCSD 350-2481/56
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.57		ng/L		91	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2463/1-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 17:31	1

Lab Sample ID: MB 350-2463/2-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 17:35	1

Lab Sample ID: LCS 350-2463/3-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	23.8		ug/L		95	85 - 115

Lab Sample ID: LCSD 350-2463/4-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	23.1		ug/L		92	85 - 115	3	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781119/1-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 09:16	08/13/24 17:21	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:21	1
Arsenic	<0.23		1.0	0.23	ug/L		08/13/24 09:16	08/13/24 17:21	1
Barium	<0.73		2.5	0.73	ug/L		08/13/24 09:16	08/13/24 17:21	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 09:16	08/13/24 17:21	1
Boron	36.6	J	50	13	ug/L		08/13/24 09:16	08/13/24 17:21	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 09:16	08/13/24 17:21	1
Calcium	<44		200	44	ug/L		08/13/24 09:16	08/13/24 17:21	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 09:16	08/13/24 17:21	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 09:16	08/13/24 17:21	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 09:16	08/13/24 17:21	1
Iron	<47		100	47	ug/L		08/13/24 09:16	08/13/24 17:21	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 09:16	08/13/24 17:21	1
Lithium	<2.5		10	2.5	ug/L		08/13/24 09:16	08/13/24 17:21	1
Magnesium	<49		200	49	ug/L		08/13/24 09:16	08/13/24 17:21	1
Manganese	<0.79		2.5	0.79	ug/L		08/13/24 09:16	08/13/24 17:21	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 09:16	08/13/24 17:21	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 09:16	08/13/24 17:21	1
Potassium	<110		500	110	ug/L		08/13/24 09:16	08/13/24 17:21	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 09:16	08/13/24 17:21	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 09:16	08/13/24 17:21	1
Sodium	179	J	200	77	ug/L		08/13/24 09:16	08/13/24 17:21	1
Strontium	<0.64		4.0	0.64	ug/L		08/13/24 09:16	08/13/24 17:21	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 09:16	08/13/24 17:21	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:21	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 09:16	08/13/24 17:21	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 09:16	08/13/24 17:21	1

Lab Sample ID: LCS 500-781119/2-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2040		ug/L		102	80 - 120
Antimony	500	502		ug/L		100	80 - 120
Arsenic	100	97.8		ug/L		98	80 - 120
Barium	500	528		ug/L		106	80 - 120
Beryllium	50.0	52.9		ug/L		106	80 - 120
Boron	1000	1070		ug/L		107	80 - 120
Cadmium	50.0	50.2		ug/L		100	80 - 120
Calcium	10000	8640		ug/L		86	80 - 120
Chromium	200	209		ug/L		105	80 - 120
Cobalt	500	533		ug/L		107	80 - 120
Copper	250	259		ug/L		103	80 - 120
Iron	1000	1050		ug/L		105	80 - 120
Lead	100	102		ug/L		102	80 - 120
Lithium	100	116		ug/L		116	80 - 120
Magnesium	10000	10700		ug/L		107	80 - 120
Manganese	500	520		ug/L		104	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781119/2-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	1000	972		ug/L		97	80 - 120
Nickel	500	515		ug/L		103	80 - 120
Potassium	10000	10400		ug/L		104	80 - 120
Selenium	100	98.1		ug/L		98	80 - 120
Silver	50.0	49.6		ug/L		99	80 - 120
Sodium	10000	10600		ug/L		106	80 - 120
Strontium	1000	988		ug/L		99	80 - 120
Thallium	100	104		ug/L		104	80 - 120
Tin	1000	992		ug/L		99	80 - 120
Vanadium	500	518		ug/L		104	80 - 120
Zinc	500	499		ug/L		100	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-778450/3
Matrix: Water
Analysis Batch: 778450

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			07/25/24 19:23	1
Fluoride	<0.19		1.0	0.19	mg/L			07/25/24 19:23	1
Sulfate	<0.21		1.0	0.21	mg/L			07/25/24 19:23	1

Lab Sample ID: LCS 500-778450/4
Matrix: Water
Analysis Batch: 778450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.5		mg/L		98	90 - 110
Fluoride	20.0	21.1		mg/L		106	90 - 110
Sulfate	20.0	21.6		mg/L		108	90 - 110

Lab Sample ID: MB 500-778451/3
Matrix: Water
Analysis Batch: 778451

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			07/25/24 19:23	1
Nitrite as N	<0.070		1.0	0.070	mg/L			07/25/24 19:23	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			07/25/24 19:23	1

Lab Sample ID: LCS 500-778451/4
Matrix: Water
Analysis Batch: 778451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.2		mg/L		96	90 - 110
Nitrite as N	20.0	21.0		mg/L		105	90 - 110
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-780563/67
Matrix: Water
Analysis Batch: 780563

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/09/24 10:56	1
Sulfate	<0.21		1.0	0.21	mg/L			08/09/24 10:56	1

Lab Sample ID: LCS 500-780563/68
Matrix: Water
Analysis Batch: 780563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.2		mg/L		96	90 - 110
Sulfate	20.0	20.6		mg/L		103	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780072/1-A
Matrix: Water
Analysis Batch: 780194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/06/24 10:01	08/06/24 14:02	1

Lab Sample ID: LCS 500-780072/2-A
Matrix: Water
Analysis Batch: 780194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0966		mg/L		97	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-781418/1-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:26	1

Lab Sample ID: LCS 500-781418/2-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.97		mg/L		99	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780961/1-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^- ^1-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:36	1

Method: 365.1 - Phosphorus, Total

Lab Sample ID: LCS 500-780961/2-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.367	^1- *- ^-	mg/L		73	88 - 123

Lab Sample ID: MB 500-782810/1-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:03	1

Lab Sample ID: LCS 500-782810/2-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.889		mg/L		89	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-780255/3
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1

Lab Sample ID: LCS 500-780255/4
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	98.0		mg/L		98	95 - 121

Method: SM 2520B - Salinity

Lab Sample ID: 500-254019-1 DU
Matrix: Water
Analysis Batch: 779504

Client Sample ID: NB1-1_20240724
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Salinity	0.48		0.477		psu		0	

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-778907/1
Matrix: Water
Analysis Batch: 778907

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			07/30/24 01:21	1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 500-778907/2
Matrix: Water
Analysis Batch: 778907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			250	238		mg/L		95	80 - 120		

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-779349/1
Matrix: Water
Analysis Batch: 779349

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			07/31/24 17:40	1

Lab Sample ID: LCS 500-779349/2
Matrix: Water
Analysis Batch: 779349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			200	185		mg/L		93	80 - 120		

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-779429/1
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			07/31/24 22:15	1

Lab Sample ID: LCS 500-779429/2
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			3.64	3.42		mg/L		94	85 - 115		

Method: SM 5310C - TOC

Lab Sample ID: MB 500-780802/7
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/08/24 12:59	1

Lab Sample ID: LCS 500-780802/8
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			10.0	10.1		mg/L		101	86 - 116		

QC Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254019-1

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-778742/7
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			07/28/24 18:19	1

Lab Sample ID: LCS 500-778742/8
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Dissolved Organic Carbon			10.0	10.3		mg/L		103	86 - 116		

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254019-1

Client Sample ID: NB1-1_20240724

Date Collected: 07/24/24 09:10
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254019-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2462	AJD	EET SSM	07/29/24 09:45
Dissolved	Analysis	1630		1	2488	CL	EET SSM	07/30/24 19:45
Total/NA	Prep	1630			2462	AJD	EET SSM	07/29/24 09:45
Total/NA	Analysis	1630		1	2488	CL	EET SSM	07/30/24 19:35
Dissolved	Analysis	1631E		1	2481	CL	EET SSM	07/30/24 20:45
Total/NA	Analysis	1631E		1	2481	CL	EET SSM	07/30/24 20:41
Dissolved	Prep	1638			2463	V1R	EET SSM	07/29/24 12:49
Dissolved	Analysis	1638		1	2472	V1R	EET SSM	07/29/24 21:10
Total Recoverable	Prep	1638			2463	V1R	EET SSM	07/29/24 12:49
Total Recoverable	Analysis	1638		1	2472	V1R	EET SSM	07/29/24 21:46
Dissolved	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 [1]
Dissolved	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 18:01
Dissolved	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 [1]
Dissolved	Analysis	6020B		1	781422	RN	EET CHI	08/14/24 12:41
Total Recoverable	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 [1]
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 17:59
Total Recoverable	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 [1]
Total Recoverable	Analysis	6020B		1	781422	RN	EET CHI	08/14/24 12:39
Total Recoverable	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 [1]
Total Recoverable	Analysis	SM 2340B		1	781363	DAJ	EET CHI	08/14/24 10:25
Total/NA	Analysis	300.0		10	780563	W1T	EET CHI	08/09/24 13:28
Total/NA	Analysis	300.0		1	778450	W1T	EET CHI	07/25/24 20:42
Total/NA	Analysis	300.0		1	778451	W1T	EET CHI	07/25/24 20:42
Total/NA	Prep	Distill/CN			780072	AC	EET CHI	08/06/24 10:01 - 08/06/24 10:31 [1]
Total/NA	Analysis	335.4		1	780194	KF	EET CHI	08/06/24 14:30
Total/NA	Prep	Distill/Ammonia			781418	EB	EET CHI	08/14/24 15:14 - 08/14/24 16:14 [1]
Total/NA	Analysis	350.1		1	781794	KF	EET CHI	08/15/24 17:33
Total/NA	Prep	365.2/365.3/365			780961	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:40 [1]
Total/NA	Analysis	365.1		1	781722	LP	EET CHI	08/13/24 17:42
Total/NA	Prep	365.2/365.3/365			782810	ER	EET CHI	08/22/24 14:15 - 08/22/24 18:15 [1]
Total/NA	Analysis	365.1		1	782997	KF	EET CHI	08/23/24 12:09
Total/NA	Analysis	SM 2320B		1	780255	SO	EET CHI	08/06/24 19:03
Total/NA	Analysis	SM 2520B		1	779504	TR	EET CHI	07/29/24 15:16
Total/NA	Analysis	SM 2540C		1	778907	CLB	EET CHI	07/30/24 01:44
Total/NA	Analysis	SM 2540D		1	779349	SO	EET CHI	07/31/24 17:43 - 07/31/24 17:45 [1]
Total/NA	Analysis	SM 4500 S2 F		1	779429	CLB	EET CHI	07/31/24 23:20 - 07/31/24 23:24 [1]
Dissolved	Analysis	SM 5310C		1	778742	TR	EET CHI	07/29/24 00:51
Total/NA	Analysis	SM 5310C		1	780802	TR	EET CHI	08/08/24 16:42

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254019-1

Client Sample ID: NB1-1_20240724_FBLL

Date Collected: 07/24/24 09:10
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254019-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2481	CL	EET SSM	07/30/24 20:50

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254019-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	08-07-24
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	08-07-24
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 1Z09NFT50105542149	COC No: 500-126351-50241 5
Client Contact: Amanda Zeidler	Phone: 517 513 2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254019
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D - HNO3
A HCL

Other: 500-254019 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC-SM5310	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, ~~9060_CR_B~~, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	~~3500_CR_B - Dissolved Chromium, Hex (field filtered)~~	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	N		
1 NB1-1_20240724	07-24-24	0910	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	18	
2 NB1-1_20240724_FBLL	07-24-24	0910	G	Water										✓	MM MS					2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: UPS OVERNIGHT

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen Coppernoll	7/24/24 1300	MSG	[signature]	7/24/24 1300	MSG
2	[signature]	7/24/24 1700	MSG	1Z09N FTS 01055421 49	7/24/24 1700	UPS
3				Stephanie Hernandez	7/25/24 1010	EEA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 2.7 → 2.6

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 17 09 N F T 5 0 1 0 5 5 4 2 1 4 9	COC No: 500-126351-50241 6
Client Contact: Amanda Zeidler	Phone: 517 513 2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-154019
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
1 NB1-1-20240724	01-24-24	0910	G	Water			✓	1	
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: UPS OVERNIGHT

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	7/24/24 1300	MSG	[signature]	7/24/24 1300	MSG
2	[signature]	7/24/24 1700	MSG	17 09 N F T 5 0 1 0 5 5 4 2 1 4 9	7/24/24 1700	UPS
3				Stephanie Hernandez	7/25/24 1010	EEA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks.

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254019-1

Login Number: 254019
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254019-1

Login Number: 254019
List Number: 2
Creator: Groden, Kyle J

List Source: Eurofins Seattle Specialty Metals
List Creation: 07/26/24 01:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254019 Field Sheet

Date:	7/26/2024
End Time:	13:46
pH Paper Lot:	HC324723
Analyst:	VM

Preservative ID	Preservative Type	Container ID
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254019-J-1	≤2				
500-254019-K-1	≤2				

VM 7-26-24

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500-254019 Field Sheet

Date:	7/26/2024
End Time:	15:29
pH Paper Lot:	HC324723
Analyst:	

Preservative ID	Preservative Type	Container ID
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254019-E-1	<2				
500-254019-F-1	<2				

7-26-24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/23/2024 4:30:00 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254020-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/23/2024 4:30:00 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254020-1

Receipt
The samples were received on 07/25/24 10:10. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1º C.

Metals
Method 1630: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 350-2462 and analytical batch 350-2488 was outside control limits. Sample matrix interference is suspected.

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- MB 350-2462/3-A (Instrument Noise)
- 500-253934-E-3-A (Instrument Noise)
- 500-254020-F-1-A (Instrument Noise)
- CCB (Instrument Noise)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 365.1: ICV recovered low at 76% Recovery. Samples were reprepped out of hold. (ICV 500-781722/9)

Method 365.1: LCS failed low. Samples were reprepped out of hold. Both sets of data are reported. (LCS 500-780961/2-A)

Method 365.1: CCV failed low. Samples were reprepped out of hold. (CCV 500-780961/25-A)

Method 365.1: Reanalysis of the following sample was performed outside of the analytical holding time due to QC failure during initial analysis. : NB1-3_20240724 (500-254020-1).Both sets of data are being reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254020-1

Client Sample ID: NB1-3_20240724

Lab Sample ID: 500-254020-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.89		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.21	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.016	J	0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.012	J	0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	33	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	2.1		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	480		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	1300	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	66000		200	44	ug/L	1		6020B	Total Recoverable
Copper	1.4	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	1400		100	47	ug/L	1		6020B	Total Recoverable
Lithium	17		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	4700		200	49	ug/L	1		6020B	Total Recoverable
Manganese	150		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	18		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	11000		500	110	ug/L	1		6020B	Total Recoverable
Sodium	110000	B	200	77	ug/L	1		6020B	Total Recoverable
Strontium	1000		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	2.0		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	470		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	1300	B	50	13	ug/L	1		6020B	Dissolved
Calcium	66000		200	44	ug/L	1		6020B	Dissolved
Iron	1100		100	47	ug/L	1		6020B	Dissolved
Lithium	17		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	4600		200	49	ug/L	1		6020B	Dissolved
Manganese	150		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	18		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	11000		500	110	ug/L	1		6020B	Dissolved
Sodium	110000	B	200	77	ug/L	1		6020B	Dissolved
Strontium	1000		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	180		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	2.6		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	230		10	1.2	mg/L	10		300.0	Total/NA
Fluoride	0.58	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	0.71	J	1.0	0.21	mg/L	1		300.0	Total/NA
Ammonia	0.22		0.20	0.10	mg/L	1		350.1	Total/NA
Phosphorus as P	0.073	^1- ^- *-	0.050	0.024	mg/L	1		365.1	Total/NA
Phosphorus as P	0.16	H	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	70		5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client Sample ID: NB1-3_20240724 (Continued)

Lab Sample ID: 500-254020-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO3	70		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	560		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	3.6	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Sulfide	0.69	J	1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	3.8		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	3.0		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: NB1-3_20240724_FBLL

Lab Sample ID: 500-254020-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254020-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254020-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254020-1	NB1-3_20240724	Water	07/24/24 09:20	07/25/24 10:10
500-254020-2	NB1-3_20240724_FBLL	Water	07/24/24 09:20	07/25/24 10:10

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254020-1

Client Sample ID: NB1-3_20240724

Date Collected: 07/24/24 09:20
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254020-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 19:55	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 20:05	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.89**		0.50	0.20	ng/L			07/30/24 21:02	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**	**J**	0.50	0.20	ng/L			07/30/24 21:06	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.016**	**J**	0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 21:50	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.012**	**J**	0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 21:14	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**33**	**J**	100	25	ug/L		08/13/24 09:16	08/13/24 18:04	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 09:16	08/13/24 18:04	1
Arsenic	**2.1**		1.0	0.23	ug/L		08/13/24 09:16	08/13/24 18:04	1
Barium	**480**		2.5	0.73	ug/L		08/13/24 09:16	08/13/24 18:04	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 09:16	08/13/24 18:04	1
Boron	**1300**	**B**	50	13	ug/L		08/13/24 09:16	08/13/24 18:04	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 09:16	08/13/24 18:04	1
Calcium	**66000**		200	44	ug/L		08/13/24 09:16	08/13/24 18:04	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 09:16	08/13/24 18:04	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 09:16	08/13/24 18:04	1
Copper	**1.4**	**J**	2.0	0.50	ug/L		08/13/24 09:16	08/13/24 18:04	1
Iron	**1400**		100	47	ug/L		08/13/24 09:16	08/13/24 18:04	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 09:16	08/13/24 18:04	1
Lithium	**17**		10	2.5	ug/L		08/13/24 09:16	08/14/24 12:43	1
Magnesium	**4700**		200	49	ug/L		08/13/24 09:16	08/13/24 18:04	1
Manganese	**150**		2.5	0.79	ug/L		08/13/24 09:16	08/13/24 18:04	1
Molybdenum	**18**		5.0	2.5	ug/L		08/13/24 09:16	08/13/24 18:04	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 09:16	08/13/24 18:04	1
Potassium	**11000**		500	110	ug/L		08/13/24 09:16	08/13/24 18:04	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 09:16	08/13/24 18:04	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 09:16	08/13/24 18:04	1
Sodium	**110000**	**B**	200	77	ug/L		08/13/24 09:16	08/13/24 18:04	1
Strontium	**1000**		4.0	0.64	ug/L		08/13/24 09:16	08/13/24 18:04	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 09:16	08/13/24 18:04	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 09:16	08/13/24 18:04	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 09:16	08/13/24 18:04	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 09:16	08/13/24 18:04	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254020-1

Client Sample ID: NB1-3_20240724

Date Collected: 07/24/24 09:20
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254020-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 09:16	08/13/24 18:06	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 09:16	08/13/24 18:06	1
Arsenic	**2.0**		1.0	0.23	ug/L		08/13/24 09:16	08/13/24 18:06	1
Barium	**470**		2.5	0.73	ug/L		08/13/24 09:16	08/13/24 18:06	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 09:16	08/13/24 18:06	1
Boron	**1300**	**B**	50	13	ug/L		08/13/24 09:16	08/13/24 18:06	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 09:16	08/13/24 18:06	1
Calcium	**66000**		200	44	ug/L		08/13/24 09:16	08/13/24 18:06	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 09:16	08/13/24 18:06	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 09:16	08/13/24 18:06	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 09:16	08/13/24 18:06	1
Iron	**1100**		100	47	ug/L		08/13/24 09:16	08/13/24 18:06	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 09:16	08/13/24 18:06	1
Lithium	**17**		10	2.5	ug/L		08/13/24 09:16	08/14/24 12:45	1
Magnesium	**4600**		200	49	ug/L		08/13/24 09:16	08/13/24 18:06	1
Manganese	**150**		2.5	0.79	ug/L		08/13/24 09:16	08/13/24 18:06	1
Molybdenum	**18**		5.0	2.5	ug/L		08/13/24 09:16	08/13/24 18:06	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 09:16	08/13/24 18:06	1
Potassium	**11000**		500	110	ug/L		08/13/24 09:16	08/13/24 18:06	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 09:16	08/13/24 18:06	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 09:16	08/13/24 18:06	1
Sodium	**110000**	**B**	200	77	ug/L		08/13/24 09:16	08/13/24 18:06	1
Strontium	**1000**		4.0	0.64	ug/L		08/13/24 09:16	08/13/24 18:06	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 09:16	08/13/24 18:06	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 09:16	08/13/24 18:06	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 09:16	08/13/24 18:06	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 09:16	08/13/24 18:06	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**180**		0.91	0.46	mg/L		08/13/24 09:16	08/14/24 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**2.6**		1.0	0.18	mg/L			07/25/24 20:57	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			07/25/24 20:57	1
Chloride (EPA 300.0)	**230**		10	1.2	mg/L			08/09/24 13:43	10
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			07/25/24 20:57	1
Fluoride (EPA 300.0)	**0.58**	**J**	1.0	0.19	mg/L			07/25/24 20:57	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			07/25/24 20:57	1
Sulfate (EPA 300.0)	**0.71**	**J**	1.0	0.21	mg/L			07/25/24 20:57	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/06/24 10:01	08/06/24 14:32	1
Ammonia (EPA 350.1)	**0.22**		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:33	1
Phosphorus as P (EPA 365.1)	**0.073**	**^1- ^- *-**	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:42	1
Phosphorus as P (EPA 365.1)	**0.16**	**H**	0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:09	1
Alkalinity (SM 2320B)	**70**		5.0	3.7	mg/L			08/06/24 19:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**70**		5.0	3.7	mg/L			08/06/24 19:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/06/24 19:15	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254020-1

Client Sample ID: NB1-3_20240724
Date Collected: 07/24/24 09:20
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254020-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			07/29/24 15:26	1
Total Dissolved Solids (SM 2540C)	**560**		10	4.3	mg/L			07/30/24 01:46	1
Total Suspended Solids (SM 2540D)	**3.6**	**J**	5.0	1.9	mg/L			07/31/24 17:45	1
Sulfide (SM 4500 S2 F)	**0.69**	**J**	1.0	0.23	mg/L			07/31/24 22:21	1
Total Organic Carbon (SM 5310C)	**3.8**		1.0	0.47	mg/L			08/08/24 17:10	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**3.0**		1.0	0.47	mg/L			07/29/24 01:19	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254020-1

Client Sample ID: NB1-3_20240724_FBLL

Date Collected: 07/24/24 09:20
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254020-2

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 21:10	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254020-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Dissolved	Water	1630	
500-254020-1	NB1-3_20240724	Total/NA	Water	1630	
MB 350-2462/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2462/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2462/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2462/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2462/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Prep Batch: 2463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Dissolved	Water	1638	
500-254020-1	NB1-3_20240724	Total Recoverable	Water	1638	
MB 350-2463/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2463/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2463/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2463/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Dissolved	Water	1638	2463
500-254020-1	NB1-3_20240724	Total Recoverable	Water	1638	2463
MB 350-2463/1-A	Method Blank	Total Recoverable	Water	1638	2463
MB 350-2463/2-A	Method Blank	Total Recoverable	Water	1638	2463
LCS 350-2463/3-A	Lab Control Sample	Total Recoverable	Water	1638	2463
LCSD 350-2463/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2463

Analysis Batch: 2481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Dissolved	Water	1631E	
500-254020-1	NB1-3_20240724	Total/NA	Water	1631E	
500-254020-2	NB1-3_20240724_FBLL	Total/NA	Water	1631E	
MB 350-2481/52	Method Blank	Total/NA	Water	1631E	
MB 350-2481/53	Method Blank	Total/NA	Water	1631E	
MB 350-2481/54	Method Blank	Total/NA	Water	1631E	
LCS 350-2481/55	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2481/56	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Dissolved	Water	1630	2462
500-254020-1	NB1-3_20240724	Total/NA	Water	1630	2462
MB 350-2462/1-A	Method Blank	Total/NA	Water	1630	2462
MB 350-2462/2-A	Method Blank	Total/NA	Water	1630	2462
MB 350-2462/3-A	Method Blank	Total/NA	Water	1630	2462
LCS 350-2462/4-A	Lab Control Sample	Total/NA	Water	1630	2462
LCSD 350-2462/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2462

Prep Batch: 781119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Dissolved	Water	3005A	
500-254020-1	NB1-3_20240724	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 781119 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-781119/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781119/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 781318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Dissolved	Water	6020B	781119
500-254020-1	NB1-3_20240724	Total Recoverable	Water	6020B	781119
MB 500-781119/1-A	Method Blank	Total Recoverable	Water	6020B	781119
LCS 500-781119/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781119

Analysis Batch: 781363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total Recoverable	Water	SM 2340B	781119

Analysis Batch: 781422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Dissolved	Water	6020B	781119
500-254020-1	NB1-3_20240724	Total Recoverable	Water	6020B	781119

General Chemistry

Analysis Batch: 778450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	300.0	
MB 500-778450/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778450/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	300.0	
MB 500-778451/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778451/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Dissolved	Water	SM 5310C	
MB 500-778742/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-778742/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 778907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	SM 2540C	
MB 500-778907/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-778907/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 779349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	SM 2540D	
MB 500-779349/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-779349/2	Lab Control Sample	Total/NA	Water	SM 2540D	

General Chemistry

Analysis Batch: 779429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	SM 4500 S2 F	
MB 500-779429/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-779429/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 779504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	SM 2520B	
500-254020-1 DU	NB1-3_20240724	Total/NA	Water	SM 2520B	

Prep Batch: 780072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	Distill/CN	
MB 500-780072/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780072/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	335.4	780072
MB 500-780072/1-A	Method Blank	Total/NA	Water	335.4	780072
LCS 500-780072/2-A	Lab Control Sample	Total/NA	Water	335.4	780072

Analysis Batch: 780255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	SM 2320B	
MB 500-780255/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-780255/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 780563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	300.0	
MB 500-780563/67	Method Blank	Total/NA	Water	300.0	
LCS 500-780563/68	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	SM 5310C	
MB 500-780802/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-780802/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 780961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	365.2/365.3/365	
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Prep Batch: 781418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	Distill/Ammonia	
MB 500-781418/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254020-1

General Chemistry

Analysis Batch: 781722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	365.1	780961
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.1	780961
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.1	780961

Analysis Batch: 781794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	350.1	781418
MB 500-781418/1-A	Method Blank	Total/NA	Water	350.1	781418
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	350.1	781418

Prep Batch: 782810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	365.2/365.3/365	
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 782997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254020-1	NB1-3_20240724	Total/NA	Water	365.1	782810
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.1	782810
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.1	782810

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2462/1-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:20	1

Lab Sample ID: MB 350-2462/2-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:30	1

Lab Sample ID: MB 350-2462/3-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:40	1

Lab Sample ID: LCS 350-2462/4-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.949		ng/L		95	65 - 135

Lab Sample ID: LCSD 350-2462/5-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2462

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.904		ng/L		90	65 - 135	5	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2481/52
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 14:45	1

Lab Sample ID: MB 350-2481/53
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 14:49	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2481/54
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			07/30/24 14:53	1

Lab Sample ID: LCS 350-2481/55
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.54		ng/L		91	77 - 123

Lab Sample ID: LCSD 350-2481/56
Matrix: Water
Analysis Batch: 2481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.57		ng/L		91	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2463/1-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 17:31	1

Lab Sample ID: MB 350-2463/2-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 17:35	1

Lab Sample ID: LCS 350-2463/3-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	23.8		ug/L		95	85 - 115

Lab Sample ID: LCSD 350-2463/4-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	23.1		ug/L		92	85 - 115	3	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781119/1-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 09:16	08/13/24 17:21	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:21	1
Arsenic	<0.23		1.0	0.23	ug/L		08/13/24 09:16	08/13/24 17:21	1
Barium	<0.73		2.5	0.73	ug/L		08/13/24 09:16	08/13/24 17:21	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 09:16	08/13/24 17:21	1
Boron	36.6	J	50	13	ug/L		08/13/24 09:16	08/13/24 17:21	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 09:16	08/13/24 17:21	1
Calcium	<44		200	44	ug/L		08/13/24 09:16	08/13/24 17:21	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 09:16	08/13/24 17:21	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 09:16	08/13/24 17:21	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 09:16	08/13/24 17:21	1
Iron	<47		100	47	ug/L		08/13/24 09:16	08/13/24 17:21	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 09:16	08/13/24 17:21	1
Lithium	<2.5		10	2.5	ug/L		08/13/24 09:16	08/13/24 17:21	1
Magnesium	<49		200	49	ug/L		08/13/24 09:16	08/13/24 17:21	1
Manganese	<0.79		2.5	0.79	ug/L		08/13/24 09:16	08/13/24 17:21	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 09:16	08/13/24 17:21	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 09:16	08/13/24 17:21	1
Potassium	<110		500	110	ug/L		08/13/24 09:16	08/13/24 17:21	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 09:16	08/13/24 17:21	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 09:16	08/13/24 17:21	1
Sodium	179	J	200	77	ug/L		08/13/24 09:16	08/13/24 17:21	1
Strontium	<0.64		4.0	0.64	ug/L		08/13/24 09:16	08/13/24 17:21	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 09:16	08/13/24 17:21	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:21	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 09:16	08/13/24 17:21	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 09:16	08/13/24 17:21	1

Lab Sample ID: LCS 500-781119/2-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2040		ug/L		102	80 - 120
Antimony	500	502		ug/L		100	80 - 120
Arsenic	100	97.8		ug/L		98	80 - 120
Barium	500	528		ug/L		106	80 - 120
Beryllium	50.0	52.9		ug/L		106	80 - 120
Boron	1000	1070		ug/L		107	80 - 120
Cadmium	50.0	50.2		ug/L		100	80 - 120
Calcium	10000	8640		ug/L		86	80 - 120
Chromium	200	209		ug/L		105	80 - 120
Cobalt	500	533		ug/L		107	80 - 120
Copper	250	259		ug/L		103	80 - 120
Iron	1000	1050		ug/L		105	80 - 120
Lead	100	102		ug/L		102	80 - 120
Lithium	100	116		ug/L		116	80 - 120
Magnesium	10000	10700		ug/L		107	80 - 120
Manganese	500	520		ug/L		104	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781119/2-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	1000	972		ug/L		97	80 - 120
Nickel	500	515		ug/L		103	80 - 120
Potassium	10000	10400		ug/L		104	80 - 120
Selenium	100	98.1		ug/L		98	80 - 120
Silver	50.0	49.6		ug/L		99	80 - 120
Sodium	10000	10600		ug/L		106	80 - 120
Strontium	1000	988		ug/L		99	80 - 120
Thallium	100	104		ug/L		104	80 - 120
Tin	1000	992		ug/L		99	80 - 120
Vanadium	500	518		ug/L		104	80 - 120
Zinc	500	499		ug/L		100	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-778450/3
Matrix: Water
Analysis Batch: 778450

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			07/25/24 19:23	1
Fluoride	<0.19		1.0	0.19	mg/L			07/25/24 19:23	1
Sulfate	<0.21		1.0	0.21	mg/L			07/25/24 19:23	1

Lab Sample ID: LCS 500-778450/4
Matrix: Water
Analysis Batch: 778450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.5		mg/L		98	90 - 110
Fluoride	20.0	21.1		mg/L		106	90 - 110
Sulfate	20.0	21.6		mg/L		108	90 - 110

Lab Sample ID: MB 500-778451/3
Matrix: Water
Analysis Batch: 778451

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			07/25/24 19:23	1
Nitrite as N	<0.070		1.0	0.070	mg/L			07/25/24 19:23	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			07/25/24 19:23	1

Lab Sample ID: LCS 500-778451/4
Matrix: Water
Analysis Batch: 778451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.2		mg/L		96	90 - 110
Nitrite as N	20.0	21.0		mg/L		105	90 - 110
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-780563/67
Matrix: Water
Analysis Batch: 780563

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/09/24 10:56	1
Sulfate	<0.21		1.0	0.21	mg/L			08/09/24 10:56	1

Lab Sample ID: LCS 500-780563/68
Matrix: Water
Analysis Batch: 780563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.2		mg/L		96	90 - 110
Sulfate	20.0	20.6		mg/L		103	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780072/1-A
Matrix: Water
Analysis Batch: 780194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/06/24 10:01	08/06/24 14:02	1

Lab Sample ID: LCS 500-780072/2-A
Matrix: Water
Analysis Batch: 780194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0966		mg/L		97	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-781418/1-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:26	1

Lab Sample ID: LCS 500-781418/2-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.97		mg/L		99	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780961/1-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^- ^1-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:36	1

Method: 365.1 - Phosphorus, Total

Lab Sample ID: LCS 500-780961/2-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.367	^1- *- ^-	mg/L		73	88 - 123

Lab Sample ID: MB 500-782810/1-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:03	1

Lab Sample ID: LCS 500-782810/2-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.889		mg/L		89	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-780255/3
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1

Lab Sample ID: LCS 500-780255/4
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	98.0		mg/L		98	95 - 121

Method: SM 2520B - Salinity

Lab Sample ID: 500-254020-1 DU
Matrix: Water
Analysis Batch: 779504

Client Sample ID: NB1-3_20240724
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Salinity	<0.33		<0.33		psu		NC	

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-778907/1
Matrix: Water
Analysis Batch: 778907

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			07/30/24 01:21	1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 500-778907/2
Matrix: Water
Analysis Batch: 778907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-779349/1
Matrix: Water
Analysis Batch: 779349

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			07/31/24 17:40	1

Lab Sample ID: LCS 500-779349/2
Matrix: Water
Analysis Batch: 779349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	185		mg/L		93	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-779429/1
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			07/31/24 22:15	1

Lab Sample ID: LCS 500-779429/2
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.42		mg/L		94	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-780802/7
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/08/24 12:59	1

Lab Sample ID: LCS 500-780802/8
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254020-1

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-778742/7
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			07/28/24 18:19	1

Lab Sample ID: LCS 500-778742/8
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.3		mg/L		103	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254020-1

Client Sample ID: NB1-3_20240724

Date Collected: 07/24/24 09:20
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254020-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2462	AJD	EET SSM	07/29/24 09:45
Dissolved	Analysis	1630		1	2488	CL	EET SSM	07/30/24 20:05
Total/NA	Prep	1630			2462	AJD	EET SSM	07/29/24 09:45
Total/NA	Analysis	1630		1	2488	CL	EET SSM	07/30/24 19:55
Dissolved	Analysis	1631E		1	2481	CL	EET SSM	07/30/24 21:06
Total/NA	Analysis	1631E		1	2481	CL	EET SSM	07/30/24 21:02
Dissolved	Prep	1638			2463	V1R	EET SSM	07/29/24 12:49
Dissolved	Analysis	1638		1	2472	V1R	EET SSM	07/29/24 21:14
Total Recoverable	Prep	1638			2463	V1R	EET SSM	07/29/24 12:49
Total Recoverable	Analysis	1638		1	2472	V1R	EET SSM	07/29/24 21:50
Dissolved	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 [1]
Dissolved	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 18:06
Dissolved	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 [1]
Dissolved	Analysis	6020B		1	781422	RN	EET CHI	08/14/24 12:45
Total Recoverable	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 [1]
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 18:04
Total Recoverable	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 [1]
Total Recoverable	Analysis	6020B		1	781422	RN	EET CHI	08/14/24 12:43
Total Recoverable	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 [1]
Total Recoverable	Analysis	SM 2340B		1	781363	DAJ	EET CHI	08/14/24 11:50
Total/NA	Analysis	300.0		10	780563	W1T	EET CHI	08/09/24 13:43
Total/NA	Analysis	300.0		1	778450	W1T	EET CHI	07/25/24 20:57
Total/NA	Analysis	300.0		1	778451	W1T	EET CHI	07/25/24 20:57
Total/NA	Prep	Distill/CN			780072	AC	EET CHI	08/06/24 10:01 - 08/06/24 10:31 [1]
Total/NA	Analysis	335.4		1	780194	KF	EET CHI	08/06/24 14:32
Total/NA	Prep	Distill/Ammonia			781418	EB	EET CHI	08/14/24 15:14 - 08/14/24 16:14 [1]
Total/NA	Analysis	350.1		1	781794	KF	EET CHI	08/15/24 17:33
Total/NA	Prep	365.2/365.3/365			780961	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:40 [1]
Total/NA	Analysis	365.1		1	781722	LP	EET CHI	08/13/24 17:42
Total/NA	Prep	365.2/365.3/365			782810	ER	EET CHI	08/22/24 14:15 - 08/22/24 18:15 [1]
Total/NA	Analysis	365.1		1	782997	KF	EET CHI	08/23/24 12:09
Total/NA	Analysis	SM 2320B		1	780255	SO	EET CHI	08/06/24 19:15
Total/NA	Analysis	SM 2520B		1	779504	TR	EET CHI	07/29/24 15:26
Total/NA	Analysis	SM 2540C		1	778907	CLB	EET CHI	07/30/24 01:46
Total/NA	Analysis	SM 2540D		1	779349	SO	EET CHI	07/31/24 17:45 - 07/31/24 17:47 [1]
Total/NA	Analysis	SM 4500 S2 F		1	779429	CLB	EET CHI	07/31/24 22:21 - 07/31/24 22:25 [1]
Dissolved	Analysis	SM 5310C		1	778742	TR	EET CHI	07/29/24 01:19
Total/NA	Analysis	SM 5310C		1	780802	TR	EET CHI	08/08/24 17:10

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254020-1

Client Sample ID: NB1-3_20240724_FBLL

Date Collected: 07/24/24 09:20
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254020-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2481	CL	EET SSM	07/30/24 21:10

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254020-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	08-07-24
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	08-07-24
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 1Z09NFT5 0102767135	COC No: 500-126351-50241 47
Client Contact: Amanda Zeidler	Phone: 6168268858	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254020

Address: 35503 Mall Circle Drive	Due Date Requested:
City: White Pine	TAT Requested (days): 10 days
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No
Phone: 906-204-6500	PO #: Purchase Order not required
Email: AZeidler@whitepinecu com	WO #:
Project Name: White Pine, MI	Project #: 50023455
Site:	SSOW#:

Analysis Requested

Preservation Codes:
S H2SO4
N None
CB ZnAcetate/NaOH
B - NaOH
D HNO3
A HCL

500-254020 COC

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC - SM5310	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, ~~3500_CR_B~~ SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	~~3500_CR_B - Dissolved Chromium, Hex (field filtered)~~	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:			S	N	CB	B	S	D	D	N	A	D	D	N	N		
1 NB-1-3_20240724	7.24.24	9:20	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	18	
2 NB-1-3-20240724_FBLL	7.24.24	9:20	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: UPS OVERNIGHT

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	7/24/24 1300	MSG		7/24/24 1300	MSG
2		7/24/24 1700	MSG	1Z09NFT5 0102767135	7/24/24 1700	UPS
		Date/Time	Company	Received by: Stephanie Hemmady	7/25/24 1010	EEHA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 1.2-7.1.1

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 1Z69NFT50102767185	COC No: 500-126351-50241 48
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254020
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
NB-1-3_20240724	7-24-24	9:20	G	Water			✓	1	
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: UPS OVERNIGHT

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	7/24/24 1300	MSG		7/24/24 1300	MSG
2		7/24/24 1700	MSG	1Z69NFT50102767185	7/24/24 1700	UPS
3				Stephanie Hernandez	7/25/24 1010	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks.

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254020-1

Login Number: 254020
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254020-1

Login Number: 254020
List Number: 2
Creator: Groden, Kyle J

List Source: Eurofins Seattle Specialty Metals
List Creation: 07/26/24 01:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254020 Field Sheet

8/23/2024

Date:	7/26/2024
End Time:	13:49
pH Paper Lot:	HC324723
Analyst:	VH

Preservative ID	Preservative Type	Container ID
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254020-J-1	<2				
500-254020-K-1	<2				

VH 7.26.24

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500-254020 Field Sheet

Date:	7/26/2024
End Time:	15 29
pH Paper Lot:	HC324723
Analyst:	

Preservative ID	Preservative Type	Container ID
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254020-E-1	<2				
500-254020-F-1	<2				

7-26-24

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8/23/2024

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/23/2024 4:31:37 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254021-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/23/2024 4:31:37 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254021-1

Receipt
The samples were received on 07/25/24 10:10. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.6º C.

Receipt Exceptions
The following sample was received outside of holding time: sample #1 for IC N2,N3.

Metals
Method 1630: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 350-2462 and analytical batch 350-2488 was outside control limits. Sample matrix interference is suspected.

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- MB 350-2462/3-A (Instrument Noise)
- 500-253934-E-3-A (Instrument Noise)
- 500-254020-F-1-A (Instrument Noise)
- CCB (Instrument Noise)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The following sample was received outside of holding time: DUP-01-SW_20240722 (500-254021-1).

Method 335.4: The method blank for preparation batch 500-779458 and analytical batch 500-779633 contained Cyanide, Total above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM 2320B: The method blank for analytical batch 500-779874 contained Alkalinity above the reporting limit (RL). Associated sample(s) were not re-analyzed because results were greater than 10X the value found in the method blank.

Method 335.4: The instrument blank for analytical batch 500-779633 contained Cyanide, Total greater than the reporting limit (RL), and were not reanalyzed because none of the samples associated with this CCB contained the target compound. The data have been qualified and reported.(CCB 500-779633/26)

Method 365.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-780961 and analytical batch 500-781722 were outside control limits.

Method 365.1: ICV recovered low at 76% Recovery. Samples were reprepped out of hold. (ICV 500-781722/9)

Method 365.1: CCV failed low. Samples were reprepped out of hold. (CCV 500-780961/25-A)

Method 365.1: LCS failed low. Samples were reprepped out of hold. Data Confirmed initial analysis. (LCS 500-780961/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254021-1

Client Sample ID: DUP-01-SW_20240722 — Lab Sample ID: 500-254021-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Uranium	0.28		0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.30		0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	40	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.67	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	130		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	420	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	76000		200	44	ug/L	1		6020B	Total Recoverable
Copper	13		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	240		100	47	ug/L	1		6020B	Total Recoverable
Lithium	39		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	11000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	52		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	37		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	3900		500	110	ug/L	1		6020B	Total Recoverable
Sodium	88000	B	200	77	ug/L	1		6020B	Total Recoverable
Strontium	950		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.59	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	130		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	400	B	50	13	ug/L	1		6020B	Dissolved
Calcium	75000		200	44	ug/L	1		6020B	Dissolved
Copper	10		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	50	J	100	47	ug/L	1		6020B	Dissolved
Lithium	37		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	11000		200	49	ug/L	1		6020B	Dissolved
Manganese	19		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	36		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	3800		500	110	ug/L	1		6020B	Dissolved
Sodium	86000	B	200	77	ug/L	1		6020B	Dissolved
Strontium	930		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	240		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	1.9		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	200		10	1.2	mg/L	10		300.0	Total/NA
Fluoride	0.33	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	30		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	74	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	74	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	600		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	3.0	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	4.5		1.0	0.47	mg/L	1		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-01-SW_20240722 (Continued) — Lab Sample ID: 500-254021-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	3.1		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: DUP-01-SW_20240722_FBLL — Lab Sample ID: 500-254021-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254021-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254021-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254021-1	DUP-01-SW_20240722	Water	07/22/24 00:00	07/25/24 10:10
500-254021-2	DUP-01-SW_20240722_FBLL	Water	07/22/24 00:00	07/25/24 10:10

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254021-1

Client Sample ID: DUP-01-SW_20240722

Date Collected: 07/22/24 00:00
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254021-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 20:15	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 20:26	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 17:29	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 17:33	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.28**		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 21:54	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.30**		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 19:10	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**40**	**J**	100	25	ug/L		08/13/24 09:16	08/13/24 18:08	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 09:16	08/13/24 18:08	1
Arsenic	**0.67**	**J**	1.0	0.23	ug/L		08/13/24 09:16	08/13/24 18:08	1
Barium	**130**		2.5	0.73	ug/L		08/13/24 09:16	08/13/24 18:08	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 09:16	08/13/24 18:08	1
Boron	**420**	**B**	50	13	ug/L		08/13/24 09:16	08/13/24 18:08	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 09:16	08/13/24 18:08	1
Calcium	**76000**		200	44	ug/L		08/13/24 09:16	08/13/24 18:08	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 09:16	08/13/24 18:08	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 09:16	08/13/24 18:08	1
Copper	**13**		2.0	0.50	ug/L		08/13/24 09:16	08/13/24 18:08	1
Iron	**240**		100	47	ug/L		08/13/24 09:16	08/13/24 18:08	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 09:16	08/13/24 18:08	1
Lithium	**39**		10	2.5	ug/L		08/13/24 09:16	08/15/24 11:00	1
Magnesium	**11000**		200	49	ug/L		08/13/24 09:16	08/13/24 18:08	1
Manganese	**52**		2.5	0.79	ug/L		08/13/24 09:16	08/13/24 18:08	1
Molybdenum	**37**		5.0	2.5	ug/L		08/13/24 09:16	08/13/24 18:08	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 09:16	08/13/24 18:08	1
Potassium	**3900**		500	110	ug/L		08/13/24 09:16	08/13/24 18:08	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 09:16	08/13/24 18:08	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 09:16	08/13/24 18:08	1
Sodium	**88000**	**B**	200	77	ug/L		08/13/24 09:16	08/13/24 18:08	1
Strontium	**950**		4.0	0.64	ug/L		08/13/24 09:16	08/13/24 18:08	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 09:16	08/13/24 18:08	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 09:16	08/13/24 18:08	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 09:16	08/13/24 18:08	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 09:16	08/13/24 18:08	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254021-1

Client Sample ID: DUP-01-SW_20240722

Lab Sample ID: 500-254021-1

Date Collected: 07/22/24 00:00

Matrix: Water

Date Received: 07/25/24 10:10

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 09:16	08/13/24 18:10	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 09:16	08/13/24 18:10	1
Arsenic	**0.59**	**J**	1.0	0.23	ug/L		08/13/24 09:16	08/13/24 18:10	1
Barium	**130**		2.5	0.73	ug/L		08/13/24 09:16	08/13/24 18:10	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 09:16	08/13/24 18:10	1
Boron	**400**	**B**	50	13	ug/L		08/13/24 09:16	08/13/24 18:10	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 09:16	08/13/24 18:10	1
Calcium	**75000**		200	44	ug/L		08/13/24 09:16	08/13/24 18:10	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 09:16	08/13/24 18:10	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 09:16	08/13/24 18:10	1
Copper	**10**		2.0	0.50	ug/L		08/13/24 09:16	08/13/24 18:10	1
Iron	**50**	**J**	100	47	ug/L		08/13/24 09:16	08/13/24 18:10	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 09:16	08/13/24 18:10	1
Lithium	**37**		10	2.5	ug/L		08/13/24 09:16	08/15/24 11:02	1
Magnesium	**11000**		200	49	ug/L		08/13/24 09:16	08/13/24 18:10	1
Manganese	**19**		2.5	0.79	ug/L		08/13/24 09:16	08/13/24 18:10	1
Molybdenum	**36**		5.0	2.5	ug/L		08/13/24 09:16	08/13/24 18:10	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 09:16	08/13/24 18:10	1
Potassium	**3800**		500	110	ug/L		08/13/24 09:16	08/13/24 18:10	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 09:16	08/13/24 18:10	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 09:16	08/13/24 18:10	1
Sodium	**86000**	**B**	200	77	ug/L		08/13/24 09:16	08/13/24 18:10	1
Strontium	**930**		4.0	0.64	ug/L		08/13/24 09:16	08/13/24 18:10	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 09:16	08/13/24 18:10	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 09:16	08/13/24 18:10	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 09:16	08/13/24 18:10	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 09:16	08/13/24 18:10	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**240**		0.91	0.46	mg/L		08/13/24 09:16	08/14/24 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**1.9**		1.0	0.18	mg/L			07/25/24 20:26	1
Nitrate as N (EPA 300.0)	<0.043	H3	1.0	0.043	mg/L			07/25/24 20:26	1
Chloride (EPA 300.0)	**200**		10	1.2	mg/L			08/09/24 13:58	10
Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			07/25/24 20:26	1
Fluoride (EPA 300.0)	**0.33**	**J**	1.0	0.19	mg/L			07/25/24 20:26	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			07/25/24 20:26	1
Sulfate (EPA 300.0)	**30**		1.0	0.21	mg/L			07/25/24 20:26	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/01/24 09:54	08/01/24 18:28	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/14/24 10:58	08/15/24 17:01	1
Phosphorus as P (EPA 365.1)	<0.024	F1 *- ^- ^1-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:44	1
Alkalinity (SM 2320B)	**74**	**B**	5.0	3.7	mg/L			08/02/24 18:35	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**74**	**B**	5.0	3.7	mg/L			08/02/24 18:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/02/24 18:35	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			07/29/24 15:24	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254021-1

Client Sample ID: DUP-01-SW_20240722
Date Collected: 07/22/24 00:00
Date Received: 07/25/24 10:10

Lab Sample ID: 500-254021-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**600**		10	4.3	mg/L			07/26/24 03:37	1
Total Suspended Solids (SM 2540D)	**3.0**	**J**	5.0	1.9	mg/L			07/25/24 18:45	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			07/26/24 00:27	1
Total Organic Carbon (SM 5310C)	**4.5**		1.0	0.47	mg/L			08/08/24 18:35	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**3.1**		1.0	0.47	mg/L			07/28/24 20:38	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254021-1

Client Sample ID: DUP-01-SW_20240722_FBLL

Lab Sample ID: 500-254021-2

Date Collected: 07/22/24 00:00
Matrix: Water
Date Received: 07/25/24 10:10

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 17:37	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254021-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Dissolved	Water	1630	
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	1630	
MB 350-2462/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2462/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2462/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2462/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2462/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Prep Batch: 2463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Dissolved	Water	1638	
500-254021-1	DUP-01-SW_20240722	Total Recoverable	Water	1638	
MB 350-2463/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2463/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2463/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2463/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-254021-1 MS	DUP-01-SW_20240722	Dissolved	Water	1638	
500-254021-1 MSD	DUP-01-SW_20240722	Dissolved	Water	1638	

Analysis Batch: 2472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Dissolved	Water	1638	2463
500-254021-1	DUP-01-SW_20240722	Total Recoverable	Water	1638	2463
MB 350-2463/1-A	Method Blank	Total Recoverable	Water	1638	2463
MB 350-2463/2-A	Method Blank	Total Recoverable	Water	1638	2463
LCS 350-2463/3-A	Lab Control Sample	Total Recoverable	Water	1638	2463
LCSD 350-2463/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2463
500-254021-1 MS	DUP-01-SW_20240722	Dissolved	Water	1638	2463
500-254021-1 MSD	DUP-01-SW_20240722	Dissolved	Water	1638	2463

Analysis Batch: 2488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Dissolved	Water	1630	2462
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	1630	2462
MB 350-2462/1-A	Method Blank	Total/NA	Water	1630	2462
MB 350-2462/2-A	Method Blank	Total/NA	Water	1630	2462
MB 350-2462/3-A	Method Blank	Total/NA	Water	1630	2462
LCS 350-2462/4-A	Lab Control Sample	Total/NA	Water	1630	2462
LCSD 350-2462/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2462

Analysis Batch: 2500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Dissolved	Water	1631E	
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	1631E	
500-254021-2	DUP-01-SW_20240722_FBLL	Total/NA	Water	1631E	
MB 350-2500/40	Method Blank	Total/NA	Water	1631E	
MB 350-2500/41	Method Blank	Total/NA	Water	1631E	
MB 350-2500/42	Method Blank	Total/NA	Water	1631E	
LCS 350-2500/43	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2500/44	Lab Control Sample Dup	Total/NA	Water	1631E	

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254021-1

Metals

Prep Batch: 781119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Dissolved	Water	3005A	
500-254021-1	DUP-01-SW_20240722	Total Recoverable	Water	3005A	
MB 500-781119/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781119/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 781318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Dissolved	Water	6020B	781119
500-254021-1	DUP-01-SW_20240722	Total Recoverable	Water	6020B	781119
MB 500-781119/1-A	Method Blank	Total Recoverable	Water	6020B	781119
LCS 500-781119/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781119

Analysis Batch: 781363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total Recoverable	Water	SM 2340B	781119

Analysis Batch: 781683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Dissolved	Water	6020B	781119
500-254021-1	DUP-01-SW_20240722	Total Recoverable	Water	6020B	781119

General Chemistry

Analysis Batch: 778448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	SM 2540D	
MB 500-778448/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-778448/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 778450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	300.0	
MB 500-778450/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778450/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	300.0	
MB 500-778451/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778451/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	SM 2540C	
MB 500-778480/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-778480/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 778568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	SM 4500 S2 F	
MB 500-778568/1	Method Blank	Total/NA	Water	SM 4500 S2 F	

General Chemistry (Continued)

Analysis Batch: 778568 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-778568/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 778742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Dissolved	Water	SM 5310C	
MB 500-778742/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-778742/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Prep Batch: 779458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	Distill/CN	
MB 500-779458/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-779458/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 779504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	SM 2520B	

Analysis Batch: 779633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	335.4	779458
MB 500-779458/1-A	Method Blank	Total/NA	Water	335.4	779458
LCS 500-779458/2-A	Lab Control Sample	Total/NA	Water	335.4	779458

Analysis Batch: 779874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	SM 2320B	
MB 500-779874/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-779874/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 780563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	300.0	
MB 500-780563/67	Method Blank	Total/NA	Water	300.0	
LCS 500-780563/68	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	SM 5310C	
MB 500-780802/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-780802/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 780961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	365.2/365.3/365	
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
500-254021-1 MS	DUP-01-SW_20240722	Total/NA	Water	365.2/365.3/365	
500-254021-1 MSD	DUP-01-SW_20240722	Total/NA	Water	365.2/365.3/365	

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254021-1

General Chemistry

Prep Batch: 781346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	Distill/Ammonia	
MB 500-781346/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-781346/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 781722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	365.1	780961
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.1	780961
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.1	780961
500-254021-1 MS	DUP-01-SW_20240722	Total/NA	Water	365.1	780961
500-254021-1 MSD	DUP-01-SW_20240722	Total/NA	Water	365.1	780961

Analysis Batch: 781794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254021-1	DUP-01-SW_20240722	Total/NA	Water	350.1	781346
MB 500-781346/1-A	Method Blank	Total/NA	Water	350.1	781346
LCS 500-781346/2-A	Lab Control Sample	Total/NA	Water	350.1	781346

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2462/1-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:20	1

Lab Sample ID: MB 350-2462/2-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:30	1

Lab Sample ID: MB 350-2462/3-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		07/29/24 09:45	07/30/24 15:40	1

Lab Sample ID: LCS 350-2462/4-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.949		ng/L		95	65 - 135

Lab Sample ID: LCSD 350-2462/5-A
Matrix: Water
Analysis Batch: 2488

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2462

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.904		ng/L		90	65 - 135	5	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2500/40
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:16	1

Lab Sample ID: MB 350-2500/41
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:20	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2500/42
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:24	1

Lab Sample ID: LCS 350-2500/43
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.50		ng/L		90	77 - 123

Lab Sample ID: LCSD 350-2500/44
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.47		ng/L		89	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2463/1-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 17:31	1

Lab Sample ID: MB 350-2463/2-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		07/29/24 12:49	07/29/24 17:35	1

Lab Sample ID: LCS 350-2463/3-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	23.8		ug/L		95	85 - 115

Lab Sample ID: LCSD 350-2463/4-A
Matrix: Water
Analysis Batch: 2472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2463

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	23.1		ug/L		92	85 - 115	3	20

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254021-1 MS
Matrix: Water
Analysis Batch: 2472

Client Sample ID: DUP-01-SW_20240722
Prep Type: Dissolved
Prep Batch: 2463

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium	0.30		25.0	28.0		ug/L		111	70 - 130		

Lab Sample ID: 500-254021-1 MSD
Matrix: Water
Analysis Batch: 2472

Client Sample ID: DUP-01-SW_20240722
Prep Type: Dissolved
Prep Batch: 2463

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	0.30		25.0	27.3		ug/L		108	70 - 130	3	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781119/1-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 09:16	08/13/24 17:21	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:21	1
Arsenic	<0.23		1.0	0.23	ug/L		08/13/24 09:16	08/13/24 17:21	1
Barium	<0.73		2.5	0.73	ug/L		08/13/24 09:16	08/13/24 17:21	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 09:16	08/13/24 17:21	1
Boron	36.6	J	50	13	ug/L		08/13/24 09:16	08/13/24 17:21	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 09:16	08/13/24 17:21	1
Calcium	<44		200	44	ug/L		08/13/24 09:16	08/13/24 17:21	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 09:16	08/13/24 17:21	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 09:16	08/13/24 17:21	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 09:16	08/13/24 17:21	1
Iron	<47		100	47	ug/L		08/13/24 09:16	08/13/24 17:21	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 09:16	08/13/24 17:21	1
Lithium	<2.5		10	2.5	ug/L		08/13/24 09:16	08/13/24 17:21	1
Magnesium	<49		200	49	ug/L		08/13/24 09:16	08/13/24 17:21	1
Manganese	<0.79		2.5	0.79	ug/L		08/13/24 09:16	08/13/24 17:21	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 09:16	08/13/24 17:21	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 09:16	08/13/24 17:21	1
Potassium	<110		500	110	ug/L		08/13/24 09:16	08/13/24 17:21	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 09:16	08/13/24 17:21	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 09:16	08/13/24 17:21	1
Sodium	179	J	200	77	ug/L		08/13/24 09:16	08/13/24 17:21	1
Strontium	<0.64		4.0	0.64	ug/L		08/13/24 09:16	08/13/24 17:21	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 09:16	08/13/24 17:21	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 09:16	08/13/24 17:21	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 09:16	08/13/24 17:21	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 09:16	08/13/24 17:21	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781119/2-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2040		ug/L		102	80 - 120
Antimony	500	502		ug/L		100	80 - 120
Arsenic	100	97.8		ug/L		98	80 - 120
Barium	500	528		ug/L		106	80 - 120
Beryllium	50.0	52.9		ug/L		106	80 - 120
Boron	1000	1070		ug/L		107	80 - 120
Cadmium	50.0	50.2		ug/L		100	80 - 120
Calcium	10000	8640		ug/L		86	80 - 120
Chromium	200	209		ug/L		105	80 - 120
Cobalt	500	533		ug/L		107	80 - 120
Copper	250	259		ug/L		103	80 - 120
Iron	1000	1050		ug/L		105	80 - 120
Lead	100	102		ug/L		102	80 - 120
Lithium	100	116		ug/L		116	80 - 120
Magnesium	10000	10700		ug/L		107	80 - 120
Manganese	500	520		ug/L		104	80 - 120
Molybdenum	1000	972		ug/L		97	80 - 120
Nickel	500	515		ug/L		103	80 - 120
Potassium	10000	10400		ug/L		104	80 - 120
Selenium	100	98.1		ug/L		98	80 - 120
Silver	50.0	49.6		ug/L		99	80 - 120
Sodium	10000	10600		ug/L		106	80 - 120
Strontium	1000	988		ug/L		99	80 - 120
Thallium	100	104		ug/L		104	80 - 120
Tin	1000	992		ug/L		99	80 - 120
Vanadium	500	518		ug/L		104	80 - 120
Zinc	500	499		ug/L		100	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-778450/3
Matrix: Water
Analysis Batch: 778450

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			07/25/24 19:23	1
Fluoride	<0.19		1.0	0.19	mg/L			07/25/24 19:23	1
Sulfate	<0.21		1.0	0.21	mg/L			07/25/24 19:23	1

Lab Sample ID: LCS 500-778450/4
Matrix: Water
Analysis Batch: 778450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.5		mg/L		98	90 - 110
Fluoride	20.0	21.1		mg/L		106	90 - 110
Sulfate	20.0	21.6		mg/L		108	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-778451/3
Matrix: Water
Analysis Batch: 778451

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			07/25/24 19:23	1
Nitrite as N	<0.070		1.0	0.070	mg/L			07/25/24 19:23	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			07/25/24 19:23	1

Lab Sample ID: LCS 500-778451/4
Matrix: Water
Analysis Batch: 778451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.2		mg/L		96	90 - 110
Nitrite as N	20.0	21.0		mg/L		105	90 - 110
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Lab Sample ID: MB 500-780563/67
Matrix: Water
Analysis Batch: 780563

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/09/24 10:56	1
Sulfate	<0.21		1.0	0.21	mg/L			08/09/24 10:56	1

Lab Sample ID: LCS 500-780563/68
Matrix: Water
Analysis Batch: 780563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.2		mg/L		96	90 - 110
Sulfate	20.0	20.6		mg/L		103	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-779458/1-A
Matrix: Water
Analysis Batch: 779633

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 779458

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00450	J	0.0050	0.0036	mg/L		08/01/24 09:54	08/01/24 17:28	1

Lab Sample ID: LCS 500-779458/2-A
Matrix: Water
Analysis Batch: 779633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 779458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.103		mg/L		103	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-781346/1-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/14/24 10:58	08/15/24 16:49	1

Lab Sample ID: LCS 500-781346/2-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.10		mg/L		105	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780961/1-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^- ^1-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:36	1

Lab Sample ID: LCS 500-780961/2-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.367	^1- *- ^-	mg/L		73	88 - 123

Lab Sample ID: 500-254021-1 MS
Matrix: Water
Analysis Batch: 781722

Client Sample ID: DUP-01-SW_20240722
Prep Type: Total/NA
Prep Batch: 780961

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	<0.024	F1 *- ^- ^1-	0.250	0.140	F1 ^1- ^-	mg/L		56	75 - 125

Lab Sample ID: 500-254021-1 MSD
Matrix: Water
Analysis Batch: 781722

Client Sample ID: DUP-01-SW_20240722
Prep Type: Total/NA
Prep Batch: 780961

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phosphorus as P	<0.024	F1 *- ^- ^1-	0.250	0.141	F1 ^- ^1-	mg/L		56	75 - 125	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-779874/3
Matrix: Water
Analysis Batch: 779874

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.71		5.0	3.7	mg/L			08/02/24 18:17	1
Bicarbonate Alkalinity as CaCO3	5.71		5.0	3.7	mg/L			08/02/24 18:17	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/02/24 18:17	1

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 500-779874/4
Matrix: Water
Analysis Batch: 779874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	106		mg/L		106	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-778480/1
Matrix: Water
Analysis Batch: 778480

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			07/26/24 02:38	1

Lab Sample ID: LCS 500-778480/2
Matrix: Water
Analysis Batch: 778480

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	240		mg/L		96	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-778448/1
Matrix: Water
Analysis Batch: 778448

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			07/25/24 18:15	1

Lab Sample ID: LCS 500-778448/2
Matrix: Water
Analysis Batch: 778448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	205		mg/L		102	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-778568/1
Matrix: Water
Analysis Batch: 778568

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			07/25/24 23:14	1

Lab Sample ID: LCS 500-778568/2
Matrix: Water
Analysis Batch: 778568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.54		mg/L		98	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-780802/7
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/08/24 12:59	1

Lab Sample ID: LCS 500-780802/8
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-778742/7
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			07/28/24 18:19	1

Lab Sample ID: LCS 500-778742/8
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.3		mg/L		103	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254021-1

Client Sample ID: DUP-01-SW_20240722

Lab Sample ID: 500-254021-1

Date Collected: 07/22/24 00:00

Matrix: Water

Date Received: 07/25/24 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2462	AJD	EET SSM	07/29/24 09:45
Dissolved	Analysis	1630		1	2488	CL	EET SSM	07/30/24 20:26
Total/NA	Prep	1630			2462	AJD	EET SSM	07/29/24 09:45
Total/NA	Analysis	1630		1	2488	CL	EET SSM	07/30/24 20:15
Dissolved	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 17:33
Total/NA	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 17:29
Dissolved	Prep	1638			2463	V1R	EET SSM	07/29/24 12:49
Dissolved	Analysis	1638		1	2472	V1R	EET SSM	07/29/24 19:10
Total Recoverable	Prep	1638			2463	V1R	EET SSM	07/29/24 12:49
Total Recoverable	Analysis	1638		1	2472	V1R	EET SSM	07/29/24 21:54
Dissolved	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 [1]
Dissolved	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 18:10
Dissolved	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 [1]
Dissolved	Analysis	6020B		1	781683	RN	EET CHI	08/15/24 11:02
Total Recoverable	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 [1]
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 18:08
Total Recoverable	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 [1]
Total Recoverable	Analysis	6020B		1	781683	RN	EET CHI	08/15/24 11:00
Total Recoverable	Prep	3005A			781119	BDE	EET CHI	08/13/24 09:16 - 08/13/24 15:16 [1]
Total Recoverable	Analysis	SM 2340B		1	781363	DAJ	EET CHI	08/14/24 11:50
Total/NA	Analysis	300.0		10	780563	W1T	EET CHI	08/09/24 13:58
Total/NA	Analysis	300.0		1	778450	W1T	EET CHI	07/25/24 20:26
Total/NA	Analysis	300.0		1	778451	W1T	EET CHI	07/25/24 20:26
Total/NA	Prep	Distill/CN			779458	MB	EET CHI	08/01/24 09:54 - 08/01/24 10:54 [1]
Total/NA	Analysis	335.4		1	779633	KF	EET CHI	08/01/24 18:28
Total/NA	Prep	Distill/Ammonia			781346	EB	EET CHI	08/14/24 10:58 - 08/14/24 11:58 [1]
Total/NA	Analysis	350.1		1	781794	KF	EET CHI	08/15/24 17:01
Total/NA	Prep	365.2/365.3/365			780961	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:40 [1]
Total/NA	Analysis	365.1		1	781722	LP	EET CHI	08/13/24 17:44
Total/NA	Analysis	SM 2320B		1	779874	SO	EET CHI	08/02/24 18:35
Total/NA	Analysis	SM 2520B		1	779504	TR	EET CHI	07/29/24 15:24
Total/NA	Analysis	SM 2540C		1	778480	CLB	EET CHI	07/26/24 03:37
Total/NA	Analysis	SM 2540D		1	778448	SO	EET CHI	07/25/24 18:45 - 07/25/24 18:47 [1]
Total/NA	Analysis	SM 4500 S2 F		1	778568	CLB	EET CHI	07/26/24 00:27 - 07/26/24 00:31 [1]
Dissolved	Analysis	SM 5310C		1	778742	TR	EET CHI	07/28/24 20:38
Total/NA	Analysis	SM 5310C		1	780802	TR	EET CHI	08/08/24 18:35

Client Sample ID: DUP-01-SW_20240722_FBLL

Lab Sample ID: 500-254021-2

Date Collected: 07/22/24 00:00

Matrix: Water

Date Received: 07/25/24 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 17:37

Lab Chronicle

Client: White Pine Copper LLC
Job ID: 500-254021-1
Project/Site: White Pines, MI

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254021-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	08-07-24
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	08-07-24
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 1Z09NFT50103149097	COC No: 500-126351-50241 27
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254021
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S - H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A - HCL

500-254021 COC

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, 4500_CR_B, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	3500_CR_B - Dissolved Chromium, Hex (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	N		
1 DUP-01-SW_20240722	07-22-24	—	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✗ MS/MSD	✓	✗ MS	✓	18	
2 DUP 01-SW_20240722_FBLL			G	Water										✓						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
✗ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ✗ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: UPS OVERNIGHT

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen Loppernoll Ellen Jacob Dean	07-22-24 / 18 40	MSG		7/23/24 13:15	MSG
2		7/23/24 16:00	MSG	1Z09NFT50103149097	7/23/24 16:00	UPS
				Stephanie Hernand	7/25/24 1010	EETA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 4.7 → 4.6

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 1Z09NFT5010314909 7	COC No: 500-126351-50241 28
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #:
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB - ZnAcetate/NaOH; B NaOH; D HNO3; A - HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
DUP-01-SW_20241072 2	07-22-24	—	G	Water			X	1	
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: UPS OVERNIGHT				
Relinquished by: Ellen Coppernoll	Date/Time: 07 22 24 / 18 40	Company: MSG	Received by:	Date/Time: 7/23/24 1315	Company: MSG
Relinquished by:	Date/Time: 7/23/24 1600	Company: MSG	Received by: 1Z09NFT5010314909 7	Date/Time: 7/23/24 1600	Company: UPS
Relinquished by:	Date/Time:	Company:	Received by: Stephanie Hernandez	Date/Time: 7/25/24 1010	Company: EETA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254021-1

Login Number: 254021
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Anions received past hold
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254021-1

Login Number: 254021
List Number: 2
Creator: Groden, Kyle J

List Source: Eurofins Seattle Specialty Metals
List Creation: 07/26/24 01:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254021 Field Sheet

Date:	7/26/2024
End Time:	15:08
pH Paper Lot:	HC324723
Analyst:	VH

Preservative ID	Preservative Type	Container ID
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254021-K-1	<2				VH 7-26-24
500-254021-J-1	<2				

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500-254021 Field Sheet

Date:	7/26/2024
End Time:	15 29
pH Paper Lot:	HC324723
Analyst:	

Preservative ID	Preservative Type	Container ID
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254021-E-1	<2				
500-254021-F-1	<2				

7-26-24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/23/2024 4:33:39 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254101-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/23/2024 4:33:39 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254101-1

Receipt
The samples were received on 07/26/24 09:50. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4º C.

Receipt Exceptions
The dissolved 1631 portions for the following samples were in a cooler that was delayed in transit:

500-254101-02
500-254102-02
500-254105-01
500-254108-02

MLR-03_20240725 (500-254101-1) and MLR-03_20240725_FBLL (500-254101-2)

Metals
Method 6020B: The method blank for preparation batch 500-781184 contained Boron and Silver above the reporting limit (RL). None of the samples associated with this method blank contained the target compound above the reporting limit; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 6020B: The continuing calibration verification (CCV) associated with batch 500-781573 recovered above the upper control limit for Lithium. The samples associated with this CCV were non-detects for the affected analyte / QC samples that recovered within control limits; therefore, the data have been reported. The associated samples are impacted: (CCV 500-781573/143) and (CCV 500-781573/155).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 365.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-780961 and analytical batch 500-781722 were outside control limits.

Method 365.1: ICV recovered low at 76% Recovery. Samples were reprepped out of hold. (ICV 500-781722/9)

Method 365.1: CCV failed low. Samples were reprepped out of hold. (CCV 500-780961/25-A)

Method 365.1: LCS failed low. Samples were reprepped out of hold. Data Confirmed initial analysis. (LCS 500-780961/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254101-1

Client Sample ID: MLR-03_20240725

Lab Sample ID: 500-254101-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.91		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.79		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.36		0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.35		0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	42	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.63	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	46		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	39	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	31000		200	44	ug/L	1		6020B	Total Recoverable
Copper	38		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	140		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	7000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	8.3		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1400		500	110	ug/L	1		6020B	Total Recoverable
Sodium	12000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	90		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.56	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	44		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	42	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	30000		200	44	ug/L	1		6020B	Dissolved
Copper	34		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	85	J	100	47	ug/L	1		6020B	Dissolved
Magnesium	6800		200	49	ug/L	1		6020B	Dissolved
Manganese	4.9		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1300		500	110	ug/L	1		6020B	Dissolved
Sodium	12000		200	77	ug/L	1		6020B	Dissolved
Strontium	87		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	110		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	17		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.22	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	1.3		1.0	0.21	mg/L	1		300.0	Total/NA
Cyanide, Total	0.0055		0.0050	0.0036	mg/L	1		335.4	Total/NA
Alkalinity	97		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	97		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	>0.33		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	150		10	4.3	mg/L	1		SM 2540C	Total/NA
Sulfide	0.53	J	1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	12		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	12		1.0	0.47	mg/L	1		SM 5310C	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254101-1

Client Sample ID: MLR-03_20240725_FBLL

Lab Sample ID: 500-254101-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254101-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254101-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254101-1	MLR-03_20240725	Water	07/25/24 11:30	07/26/24 09:50
500-254101-2	MLR-03_20240725_FBLL	Water	07/25/24 11:30	07/26/24 09:50

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254101-1

Client Sample ID: MLR-03_20240725

Date Collected: 07/25/24 11:30
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254101-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 15:03	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 16:35	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.91**		0.50	0.20	ng/L			08/02/24 17:41	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.79**		0.50	0.20	ng/L			08/02/24 17:54	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.36**		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 15:13	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.35**		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 15:17	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**42**	**J**	100	25	ug/L		08/13/24 14:45	08/14/24 16:50	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:50	1
Arsenic	**0.63**	**J**	1.0	0.23	ug/L		08/13/24 14:45	08/14/24 16:50	1
Barium	**46**		2.5	0.73	ug/L		08/13/24 14:45	08/14/24 16:50	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:45	08/14/24 16:50	1
Boron	**39**	**J B**	50	13	ug/L		08/13/24 14:45	08/14/24 16:50	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:45	08/14/24 16:50	1
Calcium	**31000**		200	44	ug/L		08/13/24 14:45	08/14/24 16:50	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:45	08/14/24 16:50	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:45	08/14/24 16:50	1
Copper	**38**		2.0	0.50	ug/L		08/13/24 14:45	08/14/24 16:50	1
Iron	**140**		100	47	ug/L		08/13/24 14:45	08/14/24 16:50	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:45	08/14/24 16:50	1
Lithium	<2.5	^+	10	2.5	ug/L		08/13/24 14:45	08/14/24 16:50	1
Magnesium	**7000**		200	49	ug/L		08/13/24 14:45	08/14/24 16:50	1
Manganese	**8.3**		2.5	0.79	ug/L		08/13/24 14:45	08/14/24 16:50	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 14:45	08/14/24 16:50	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:45	08/14/24 16:50	1
Potassium	**1400**		500	110	ug/L		08/13/24 14:45	08/14/24 16:50	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:45	08/14/24 16:50	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:45	08/14/24 16:50	1
Sodium	**12000**		200	77	ug/L		08/13/24 14:45	08/14/24 16:50	1
Strontium	**90**		4.0	0.64	ug/L		08/13/24 14:45	08/14/24 16:50	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:45	08/14/24 16:50	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:50	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:45	08/14/24 16:50	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:45	08/14/24 16:50	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254101-1

Client Sample ID: MLR-03_20240725
Date Collected: 07/25/24 11:30
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254101-1
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 14:45	08/14/24 16:47	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:47	1
Arsenic	**0.56**	**J**	1.0	0.23	ug/L		08/13/24 14:45	08/14/24 16:47	1
Barium	**44**		2.5	0.73	ug/L		08/13/24 14:45	08/14/24 16:47	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:45	08/14/24 16:47	1
Boron	**42**	**J B**	50	13	ug/L		08/13/24 14:45	08/14/24 16:47	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:45	08/14/24 16:47	1
Calcium	**30000**		200	44	ug/L		08/13/24 14:45	08/14/24 16:47	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:45	08/14/24 16:47	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:45	08/14/24 16:47	1
Copper	**34**		2.0	0.50	ug/L		08/13/24 14:45	08/14/24 16:47	1
Iron	**85**	**J**	100	47	ug/L		08/13/24 14:45	08/14/24 16:47	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:45	08/14/24 16:47	1
Lithium	<2.5	^+	10	2.5	ug/L		08/13/24 14:45	08/14/24 16:47	1
Magnesium	**6800**		200	49	ug/L		08/13/24 14:45	08/14/24 16:47	1
Manganese	**4.9**		2.5	0.79	ug/L		08/13/24 14:45	08/14/24 16:47	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 14:45	08/14/24 16:47	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:45	08/14/24 16:47	1
Potassium	**1300**		500	110	ug/L		08/13/24 14:45	08/14/24 16:47	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:45	08/14/24 16:47	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:45	08/14/24 16:47	1
Sodium	**12000**		200	77	ug/L		08/13/24 14:45	08/14/24 16:47	1
Strontium	**87**		4.0	0.64	ug/L		08/13/24 14:45	08/14/24 16:47	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:45	08/14/24 16:47	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:47	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:45	08/14/24 16:47	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:45	08/14/24 16:47	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**110**		0.91	0.46	mg/L		08/13/24 14:45	08/15/24 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			07/26/24 13:30	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			07/26/24 13:30	1
Chloride (EPA 300.0)	**17**		1.0	0.12	mg/L			07/26/24 13:30	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			07/26/24 13:30	1
Fluoride (EPA 300.0)	**0.22**	**J**	1.0	0.19	mg/L			07/26/24 13:30	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			07/26/24 13:30	1
Sulfate (EPA 300.0)	**1.3**		1.0	0.21	mg/L			07/26/24 13:30	1
Cyanide, Total (EPA 335.4)	**0.0055**		0.0050	0.0036	mg/L		08/06/24 11:24	08/07/24 13:35	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:33	1
Phosphorus as P (EPA 365.1)	<0.024	^1- ^- *-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:45	1
Alkalinity (SM 2320B)	**97**		5.0	3.7	mg/L			08/07/24 00:13	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**97**		5.0	3.7	mg/L			08/07/24 00:13	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/07/24 00:13	1
Salinity (SM 2520B)	**>0.33**		0.33	0.33	psu			08/04/24 14:56	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254101-1

Client Sample ID: MLR-03_20240725
Date Collected: 07/25/24 11:30
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254101-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**150**		10	4.3	mg/L			07/31/24 02:37	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			08/01/24 15:50	1
Sulfide (SM 4500 S2 F)	**0.53**	**J**	1.0	0.23	mg/L			07/31/24 22:49	1
Total Organic Carbon (SM 5310C)	**12**		1.0	0.47	mg/L			08/08/24 19:02	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**12**		1.0	0.47	mg/L			07/29/24 03:39	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254101-1

Client Sample ID: MLR-03_20240725_FBLL
Date Collected: 07/25/24 11:30
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254101-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 17:58	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254101-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Dissolved	Water	1630	
500-254101-1	MLR-03_20240725	Total/NA	Water	1630	
MB 350-2490/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2490/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2490/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2490/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2490/5-A	Lab Control Sample Dup	Total/NA	Water	1630	
500-254101-1 MS	MLR-03_20240725	Total/NA	Water	1630	
500-254101-1 MSD	MLR-03_20240725	Total/NA	Water	1630	

Prep Batch: 2494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Dissolved	Water	1638	
500-254101-1	MLR-03_20240725	Total Recoverable	Water	1638	
MB 350-2494/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2494/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2494/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2494/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Dissolved	Water	1631E	
500-254101-1	MLR-03_20240725	Total/NA	Water	1631E	
500-254101-2	MLR-03_20240725_FBLL	Total/NA	Water	1631E	
MB 350-2500/40	Method Blank	Total/NA	Water	1631E	
MB 350-2500/41	Method Blank	Total/NA	Water	1631E	
MB 350-2500/42	Method Blank	Total/NA	Water	1631E	
LCS 350-2500/43	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2500/44	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Dissolved	Water	1638	2494
500-254101-1	MLR-03_20240725	Total Recoverable	Water	1638	2494
MB 350-2494/1-A	Method Blank	Total Recoverable	Water	1638	2494
MB 350-2494/2-A	Method Blank	Total Recoverable	Water	1638	2494
LCS 350-2494/3-A	Lab Control Sample	Total Recoverable	Water	1638	2494
LCSD 350-2494/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2494

Analysis Batch: 2513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Dissolved	Water	1630	2490
500-254101-1	MLR-03_20240725	Total/NA	Water	1630	2490
MB 350-2490/1-A	Method Blank	Total/NA	Water	1630	2490
MB 350-2490/2-A	Method Blank	Total/NA	Water	1630	2490
MB 350-2490/3-A	Method Blank	Total/NA	Water	1630	2490
LCS 350-2490/4-A	Lab Control Sample	Total/NA	Water	1630	2490
LCSD 350-2490/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2490
500-254101-1 MS	MLR-03_20240725	Total/NA	Water	1630	2490
500-254101-1 MSD	MLR-03_20240725	Total/NA	Water	1630	2490

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254101-1

Metals

Prep Batch: 781184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Dissolved	Water	3005A	
500-254101-1	MLR-03_20240725	Total Recoverable	Water	3005A	
MB 500-781184/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781184/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 781573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Dissolved	Water	6020B	781184
500-254101-1	MLR-03_20240725	Total Recoverable	Water	6020B	781184
MB 500-781184/1-A	Method Blank	Total Recoverable	Water	6020B	781184
LCS 500-781184/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781184

Analysis Batch: 781606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Total Recoverable	Water	SM 2340B	781184

General Chemistry

Analysis Batch: 778596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Total/NA	Water	300.0	
MB 500-778596/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778596/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Total/NA	Water	300.0	
MB 500-778597/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778597/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Dissolved	Water	SM 5310C	
MB 500-778742/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-778742/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 779153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Total/NA	Water	SM 2540C	
MB 500-779153/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779153/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 779429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Total/NA	Water	SM 4500 S2 F	
MB 500-779429/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-779429/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 779603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Total/NA	Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 779603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-779603/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-779603/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 779789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Total/NA	Water	SM 2520B	
500-254101-1 DU	MLR-03_20240725	Total/NA	Water	SM 2520B	

Prep Batch: 780092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Total/NA	Water	Distill/CN	
MB 500-780092/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780092/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Total/NA	Water	SM 2320B	
MB 500-780255/53	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-780255/54	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 780323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Total/NA	Water	335.4	780092
MB 500-780092/1-A	Method Blank	Total/NA	Water	335.4	780092
LCS 500-780092/2-A	Lab Control Sample	Total/NA	Water	335.4	780092

Analysis Batch: 780802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Total/NA	Water	SM 5310C	
MB 500-780802/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-780802/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 780961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Total/NA	Water	365.2/365.3/365	
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Prep Batch: 781418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Total/NA	Water	Distill/Ammonia	
MB 500-781418/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 781722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Total/NA	Water	365.1	780961
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.1	780961
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.1	780961

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254101-1

General Chemistry

Analysis Batch: 781794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254101-1	MLR-03_20240725	Total/NA	Water	350.1	781418
MB 500-781418/1-A	Method Blank	Total/NA	Water	350.1	781418
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	350.1	781418

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2490/1-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:12	1

Lab Sample ID: MB 350-2490/2-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:22	1

Lab Sample ID: MB 350-2490/3-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:32	1

Lab Sample ID: LCS 350-2490/4-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.920		ng/L		92	65 - 135

Lab Sample ID: LCSD 350-2490/5-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2490

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	1.00		ng/L		100	65 - 135	8	35

Lab Sample ID: 500-254101-1 MS
Matrix: Water
Analysis Batch: 2513

Client Sample ID: MLR-03_20240725
Prep Type: Total/NA
Prep Batch: 2490

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	<0.022		1.00	0.960		ng/L		96	65 - 135

Lab Sample ID: 500-254101-1 MSD
Matrix: Water
Analysis Batch: 2513

Client Sample ID: MLR-03_20240725
Prep Type: Total/NA
Prep Batch: 2490

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	<0.022		1.00	1.08		ng/L		108	65 - 135	12	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2500/40
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:16	1

Lab Sample ID: MB 350-2500/41
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:20	1

Lab Sample ID: MB 350-2500/42
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:24	1

Lab Sample ID: LCS 350-2500/43
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.50		ng/L		90	77 - 123

Lab Sample ID: LCSD 350-2500/44
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.47		ng/L		89	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2494/1-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 13:34	1

Lab Sample ID: MB 350-2494/2-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 13:37	1

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 350-2494/3-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	23.3		ug/L		93	85 - 115

Lab Sample ID: LCSD 350-2494/4-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	23.3		ug/L		93	85 - 115	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781184/1-A
Matrix: Water
Analysis Batch: 781573

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 14:45	08/14/24 16:18	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:18	1
Arsenic	<0.23		1.0	0.23	ug/L		08/13/24 14:45	08/14/24 16:18	1
Barium	<0.73		2.5	0.73	ug/L		08/13/24 14:45	08/14/24 16:18	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:45	08/14/24 16:18	1
Boron	68.7		50	13	ug/L		08/13/24 14:45	08/14/24 16:18	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:45	08/14/24 16:18	1
Calcium	<44		200	44	ug/L		08/13/24 14:45	08/14/24 16:18	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:45	08/14/24 16:18	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:45	08/14/24 16:18	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 14:45	08/14/24 16:18	1
Iron	<47		100	47	ug/L		08/13/24 14:45	08/14/24 16:18	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:45	08/14/24 16:18	1
Lithium	<2.5	^+	10	2.5	ug/L		08/13/24 14:45	08/14/24 16:18	1
Magnesium	<49		200	49	ug/L		08/13/24 14:45	08/14/24 16:18	1
Manganese	<0.79		2.5	0.79	ug/L		08/13/24 14:45	08/14/24 16:18	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 14:45	08/14/24 16:18	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:45	08/14/24 16:18	1
Potassium	<110		500	110	ug/L		08/13/24 14:45	08/14/24 16:18	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:45	08/14/24 16:18	1
Silver	0.927		0.50	0.12	ug/L		08/13/24 14:45	08/14/24 16:18	1
Sodium	<77		200	77	ug/L		08/13/24 14:45	08/14/24 16:18	1
Strontium	<0.64		4.0	0.64	ug/L		08/13/24 14:45	08/14/24 16:18	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:45	08/14/24 16:18	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:18	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:45	08/14/24 16:18	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:45	08/14/24 16:18	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781184/2-A
Matrix: Water
Analysis Batch: 781573

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2010		ug/L		100	80 - 120
Antimony	500	511		ug/L		102	80 - 120
Arsenic	100	98.9		ug/L		99	80 - 120
Barium	500	505		ug/L		101	80 - 120
Beryllium	50.0	52.8		ug/L		106	80 - 120
Boron	1000	1050		ug/L		105	80 - 120
Cadmium	50.0	49.8		ug/L		100	80 - 120
Calcium	10000	8930		ug/L		89	80 - 120
Chromium	200	215		ug/L		108	80 - 120
Cobalt	500	547		ug/L		109	80 - 120
Copper	250	263		ug/L		105	80 - 120
Iron	1000	1070		ug/L		107	80 - 120
Lead	100	104		ug/L		104	80 - 120
Lithium	100	117	^+	ug/L		117	80 - 120
Magnesium	10000	10800		ug/L		108	80 - 120
Manganese	500	529		ug/L		106	80 - 120
Molybdenum	1000	995		ug/L		99	80 - 120
Nickel	500	520		ug/L		104	80 - 120
Potassium	10000	10600		ug/L		106	80 - 120
Selenium	100	96.3		ug/L		96	80 - 120
Silver	50.0	50.3		ug/L		101	80 - 120
Sodium	10000	10700		ug/L		107	80 - 120
Strontium	1000	990		ug/L		99	80 - 120
Thallium	100	106		ug/L		106	80 - 120
Tin	1000	1010		ug/L		101	80 - 120
Vanadium	500	523		ug/L		105	80 - 120
Zinc	500	500		ug/L		100	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-778596/3
Matrix: Water
Analysis Batch: 778596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			07/26/24 11:57	1
Chloride	<0.12		1.0	0.12	mg/L			07/26/24 11:57	1
Fluoride	<0.19		1.0	0.19	mg/L			07/26/24 11:57	1
Sulfate	<0.21		1.0	0.21	mg/L			07/26/24 11:57	1

Lab Sample ID: LCS 500-778596/4
Matrix: Water
Analysis Batch: 778596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.9		mg/L		99	90 - 110
Chloride	20.0	21.0		mg/L		105	90 - 110
Fluoride	20.0	21.1		mg/L		105	90 - 110
Sulfate	20.0	21.5		mg/L		108	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-778597/3
Matrix: Water
Analysis Batch: 778597

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			07/26/24 11:57	1
Nitrite as N	<0.070		1.0	0.070	mg/L			07/26/24 11:57	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			07/26/24 11:57	1

Lab Sample ID: LCS 500-778597/4
Matrix: Water
Analysis Batch: 778597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.4		mg/L		97	90 - 110
Nitrite as N	20.0	21.2		mg/L		106	90 - 110
Nitrate Nitrite as N	40.0	40.6		mg/L		101	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780092/1-A
Matrix: Water
Analysis Batch: 780323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/06/24 11:24	08/07/24 13:06	1

Lab Sample ID: LCS 500-780092/2-A
Matrix: Water
Analysis Batch: 780323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.102		mg/L		102	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-781418/1-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:26	1

Lab Sample ID: LCS 500-781418/2-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.97		mg/L		99	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780961/1-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^- ^1-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:36	1

Lab Sample ID: LCS 500-780961/2-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.367	^1- *- ^-	mg/L		73	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-780255/53
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/06/24 23:21	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 23:21	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 23:21	1

Lab Sample ID: LCS 500-780255/54
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	105		mg/L		105	95 - 121

Method: SM 2520B - Salinity

Lab Sample ID: 500-254101-1 DU
Matrix: Water
Analysis Batch: 779789

Client Sample ID: MLR-03_20240725
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Salinity	>0.33		>0.330		psu		NC	

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-779153/1
Matrix: Water
Analysis Batch: 779153

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			07/31/24 02:17	1

Lab Sample ID: LCS 500-779153/2
Matrix: Water
Analysis Batch: 779153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	246		mg/L		98	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-779603/1
Matrix: Water
Analysis Batch: 779603

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/01/24 15:30	1

Lab Sample ID: LCS 500-779603/2
Matrix: Water
Analysis Batch: 779603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	186		mg/L		93	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-779429/1
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			07/31/24 22:15	1

Lab Sample ID: LCS 500-779429/2
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.42		mg/L		94	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-780802/7
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/08/24 12:59	1

Lab Sample ID: LCS 500-780802/8
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-778742/7
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			07/28/24 18:19	1

Method: SM 5310C - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: LCS 500-778742/8
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.3		mg/L		103	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254101-1

Client Sample ID: MLR-03_20240725

Lab Sample ID: 500-254101-1

Date Collected: 07/25/24 11:30

Matrix: Water

Date Received: 07/26/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2490	AJD	EET SSM	08/01/24 10:43
Dissolved	Analysis	1630		1	2513	CL	EET SSM	08/02/24 16:35
Total/NA	Prep	1630			2490	AJD	EET SSM	08/01/24 10:43
Total/NA	Analysis	1630		1	2513	CL	EET SSM	08/02/24 15:03
Dissolved	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 17:54
Total/NA	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 17:41
Dissolved	Prep	1638			2494	COW	EET SSM	08/01/24 13:41
Dissolved	Analysis	1638		1	2503	COW	EET SSM	08/02/24 15:17
Total Recoverable	Prep	1638			2494	COW	EET SSM	08/01/24 13:41
Total Recoverable	Analysis	1638		1	2503	COW	EET SSM	08/02/24 15:13
Dissolved	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Dissolved	Analysis	6020B		1	781573	RN	EET CHI	08/14/24 16:47
Total Recoverable	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Total Recoverable	Analysis	6020B		1	781573	RN	EET CHI	08/14/24 16:50
Total Recoverable	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Total Recoverable	Analysis	SM 2340B		1	781606	DAJ	EET CHI	08/15/24 09:56
Total/NA	Analysis	300.0		1	778596	W1T	EET CHI	07/26/24 13:30
Total/NA	Analysis	300.0		1	778597	W1T	EET CHI	07/26/24 13:30
Total/NA	Prep	Distill/CN			780092	AC	EET CHI	08/06/24 11:24 - 08/06/24 11:54 [1]
Total/NA	Analysis	335.4		1	780323	AC	EET CHI	08/07/24 13:35
Total/NA	Prep	Distill/Ammonia			781418	EB	EET CHI	08/14/24 15:14 - 08/14/24 16:14 [1]
Total/NA	Analysis	350.1		1	781794	KF	EET CHI	08/15/24 17:33
Total/NA	Prep	365.2/365.3/365			780961	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:40 [1]
Total/NA	Analysis	365.1		1	781722	LP	EET CHI	08/13/24 17:45
Total/NA	Analysis	SM 2320B		1	780255	SO	EET CHI	08/07/24 00:13
Total/NA	Analysis	SM 2520B		1	779789	TR	EET CHI	08/04/24 14:56
Total/NA	Analysis	SM 2540C		1	779153	CLB	EET CHI	07/31/24 02:37
Total/NA	Analysis	SM 2540D		1	779603	SO	EET CHI	08/01/24 15:50 - 08/01/24 15:52 [1]
Total/NA	Analysis	SM 4500 S2 F		1	779429	CLB	EET CHI	07/31/24 22:49 - 07/31/24 22:53 [1]
Dissolved	Analysis	SM 5310C		1	778742	TR	EET CHI	07/29/24 03:39
Total/NA	Analysis	SM 5310C		1	780802	TR	EET CHI	08/08/24 19:02

Client Sample ID: MLR-03_20240725_FBLL

Lab Sample ID: 500-254101-2

Date Collected: 07/25/24 11:30

Matrix: Water

Date Received: 07/26/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 17:58

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254101-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	08-07-24
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	08-07-24
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1276	COC No: 500-126351-50241 29
Client Contact: Amanda Zeidler	Phone:	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254101
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

500-254101 COC

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC SM5310	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, 3500_CR_B, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	3500_CR_B - Dissolved Chromium, Hex (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	N		
1	MLR-03_20240725	07-25-24	1130	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		
2	MLR-03_20240725_FBLL	07-25-24	1130	G	Water										✓							
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	7/25/24 1400	MSG		7/25/24 1400	MSG
2		7/25/24 1600	MSG	4051 7962 1276	7/25/24 1600	Fedex
3				Stephanie Hemond	7/26/24 0950	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 1.5+1.4

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1276	COC No: 500-126351-50241 30
Client Contact: Amanda Zeidler	Phone:	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254101
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL; Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
~~MLR-03~~ EC			G	Water					
1 MLR-03_20240725	07-25-24	1130	G	Water			✓		
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen Coppernoll	7/25/24 1400	MSG		7/25/24 1400	MSG
2		7/25/24 1600	MSG	4051 7962 1276	7/25/24 1600	Fedex
3		Date/Time	Company	Stephanie Hernandez	7/26/24 0852	EEN

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808

Part # 159469-434 MTW EXP 01/25

TO **SAMPLE RECEIPT**
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200 REF:
INV:
PO: DEPT:

RMA:

FedEx Express

J241023112201uv

TRK# 0221 **4051 7962 1276**

RETURNS MON-SAT
PRIORITY OVERNIGHT

FedEx.

TRK# 0221 **4051 7962 1276**

FRI - 26 JUL AA
PRIORITY OVERNIGHT

XP JOTA

60484
IL-US
ORD

500-254101 Waybi

48qt

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254101-1

Login Number: 254101
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254101-1

Login Number: 254101
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 07/30/24 01:12 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254101 Field Sheet

Date:	7/30/2024
End Time:	13:30
KI Paper Lot:	na
Analyst:	PL

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	19628
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
500-254101-A-1	A	Y	.8 2	
500-254101-B-1	A	Y	.8 2	
500-254101-C-1	A	Y	.8 2	
500-254101-D-1	A	Y	.8 2	
500-254101-A-2	A	Y	.8 2	
500-254101-B-2	A	Y	.8 2	

PL 7/30/24

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500-254101 Field Sheet

Date:	7/30/2024
End Time:	1340
pH Paper Lot:	HC324723
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254101-F-1	2	NA	NA	NA	NA
500-254101-E-1	2				

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/23/2024 4:36:04 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254102-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/23/2024 4:36:04 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254102-1

Receipt
The samples were received on 07/26/24 09:50. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.8º C.

Receipt Exceptions
The following sample was received outside of holding time: #1 for IC N2+N3.

The dissolved 1631 portions for the following samples were in a cooler that was delayed in transit:

500-254101-02
500-254102-02
500-254105-01
500-254108-02

Metals
Method 6020B: The continuing calibration verification (CCV) associated with batch 500-781573 recovered above the upper control limit for Lithium. The samples associated with this CCV were non-detects for the affected analyte / QC samples that recovered within control limits; therefore, the data have been reported. The associated samples are impacted: (CCV 500-781573/143) and (CCV 500-781573/155).

Method 6020B: The method blank for preparation batch 500-781184 and analytical batch 500-781573 contained Boron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 365.1: ICV recovered low at 76% Recovery. Samples were reprepped out of hold. (ICV 500-781722/9)

Method 365.1: CCV failed low. Samples were reprepped out of hold. (CCV 500-780961/25-A)

Method 365.1: Reanalysis of the following sample was performed outside of the analytical holding time due to QC failure during initial analysis. : DUP-01-GW_20240724 (500-254102-1).Both sets of data are being reported.

Method 365.1: LCS failed low. Samples were reprepped out of hold. Both sets of data are reported. (LCS 500-780961/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254102-1

Client Sample ID: DUP-01-GW_20240724 — Lab Sample ID: 500-254102-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.74		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.55		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	8.9		0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	8.5		0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	3000		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	1.1		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	130		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	1300	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	48000		200	44	ug/L	1		6020B	Total Recoverable
Chromium	5.0		5.0	1.1	ug/L	1		6020B	Total Recoverable
Cobalt	2.5		1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	6.3		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	3400		100	47	ug/L	1		6020B	Total Recoverable
Lead	0.90		0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	7.7	J ^+	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	4800		200	49	ug/L	1		6020B	Total Recoverable
Manganese	140		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	30		5.0	2.5	ug/L	1		6020B	Total Recoverable
Nickel	4.2		2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	1600		500	110	ug/L	1		6020B	Total Recoverable
Selenium	1.1	J	2.5	0.98	ug/L	1		6020B	Total Recoverable
Sodium	65000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	830		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	8.8		5.0	2.2	ug/L	1		6020B	Total Recoverable
Zinc	8.5	J	20	6.9	ug/L	1		6020B	Total Recoverable
Aluminum	34	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.48	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	86		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	1300	B	50	13	ug/L	1		6020B	Dissolved
Calcium	48000		200	44	ug/L	1		6020B	Dissolved
Copper	1.2	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	54	J	100	47	ug/L	1		6020B	Dissolved
Lithium	5.5	J ^+	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	4000		200	49	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254102-1

Client Sample ID: DUP-01-GW_20240724 (Continued) — Lab Sample ID: 500-254102-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2.7		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	31		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	1100		500	110	ug/L	1		6020B	Dissolved
Sodium	67000		200	77	ug/L	1		6020B	Dissolved
Strontium	820		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	140		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.47	J	1.0	0.18	mg/L	1		300.0	Total/NA
Nitrate as N	0.80	J	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	51		5.0	0.58	mg/L	5		300.0	Total/NA
Fluoride	0.39	J	1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.80	J	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	41		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.28	^1- ^- *-	0.050	0.024	mg/L	1		365.1	Total/NA
Phosphorus as P	0.19	H	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	140		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	140		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	340		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	32		10	3.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.6		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	1.7		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: DUP-01-GW_20240724_FBLL — Lab Sample ID: 500-254102-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254102-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254102-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254102-1	DUP-01-GW_20240724	Water	07/24/24 23:59	07/26/24 09:50
500-254102-2	DUP-01-GW_20240724_FBLL	Water	07/24/24 23:59	07/26/24 09:50

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254102-1

Client Sample ID: DUP-01-GW_20240724

Date Collected: 07/24/24 23:59
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254102-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 16:45	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 16:55	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.74**		0.50	0.20	ng/L			08/08/24 16:04	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.55**		0.50	0.20	ng/L			08/08/24 16:08	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**8.9**		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 15:20	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**8.5**		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 15:24	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3000**		100	25	ug/L		08/13/24 14:45	08/14/24 16:54	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:54	1
Arsenic	**1.1**		1.0	0.23	ug/L		08/13/24 14:45	08/14/24 16:54	1
Barium	**130**		2.5	0.73	ug/L		08/13/24 14:45	08/14/24 16:54	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:45	08/14/24 16:54	1
Boron	**1300**	**B**	50	13	ug/L		08/13/24 14:45	08/14/24 16:54	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:45	08/14/24 16:54	1
Calcium	**48000**		200	44	ug/L		08/13/24 14:45	08/14/24 16:54	1
Chromium	**5.0**		5.0	1.1	ug/L		08/13/24 14:45	08/14/24 16:54	1
Cobalt	**2.5**		1.0	0.40	ug/L		08/13/24 14:45	08/14/24 16:54	1
Copper	**6.3**		2.0	0.50	ug/L		08/13/24 14:45	08/14/24 16:54	1
Iron	**3400**		100	47	ug/L		08/13/24 14:45	08/14/24 16:54	1
Lead	**0.90**		0.50	0.19	ug/L		08/13/24 14:45	08/14/24 16:54	1
Lithium	**7.7**	**J ^+**	10	2.5	ug/L		08/13/24 14:45	08/14/24 16:54	1
Magnesium	**4800**		200	49	ug/L		08/13/24 14:45	08/14/24 16:54	1
Manganese	**140**		2.5	0.79	ug/L		08/13/24 14:45	08/14/24 16:54	1
Molybdenum	**30**		5.0	2.5	ug/L		08/13/24 14:45	08/14/24 16:54	1
Nickel	**4.2**		2.0	0.63	ug/L		08/13/24 14:45	08/14/24 16:54	1
Potassium	**1600**		500	110	ug/L		08/13/24 14:45	08/14/24 16:54	1
Selenium	**1.1**	**J**	2.5	0.98	ug/L		08/13/24 14:45	08/14/24 16:54	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:45	08/14/24 16:54	1
Sodium	**65000**		200	77	ug/L		08/13/24 14:45	08/14/24 16:54	1
Strontium	**830**		4.0	0.64	ug/L		08/13/24 14:45	08/14/24 16:54	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:45	08/14/24 16:54	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:54	1
Vanadium	**8.8**		5.0	2.2	ug/L		08/13/24 14:45	08/14/24 16:54	1
Zinc	**8.5**	**J**	20	6.9	ug/L		08/13/24 14:45	08/14/24 16:54	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254102-1

Client Sample ID: DUP-01-GW_20240724

Date Collected: 07/24/24 23:59
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254102-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**34**	**J**	100	25	ug/L		08/13/24 14:45	08/14/24 16:52	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:52	1
Arsenic	**0.48**	**J**	1.0	0.23	ug/L		08/13/24 14:45	08/14/24 16:52	1
Barium	**86**		2.5	0.73	ug/L		08/13/24 14:45	08/14/24 16:52	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:45	08/14/24 16:52	1
Boron	**1300**	**B**	50	13	ug/L		08/13/24 14:45	08/14/24 16:52	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:45	08/14/24 16:52	1
Calcium	**48000**		200	44	ug/L		08/13/24 14:45	08/14/24 16:52	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:45	08/14/24 16:52	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:45	08/14/24 16:52	1
Copper	**1.2**	**J**	2.0	0.50	ug/L		08/13/24 14:45	08/14/24 16:52	1
Iron	**54**	**J**	100	47	ug/L		08/13/24 14:45	08/14/24 16:52	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:45	08/14/24 16:52	1
Lithium	**5.5**	**J ^+**	10	2.5	ug/L		08/13/24 14:45	08/14/24 16:52	1
Magnesium	**4000**		200	49	ug/L		08/13/24 14:45	08/14/24 16:52	1
Manganese	**2.7**		2.5	0.79	ug/L		08/13/24 14:45	08/14/24 16:52	1
Molybdenum	**31**		5.0	2.5	ug/L		08/13/24 14:45	08/14/24 16:52	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:45	08/14/24 16:52	1
Potassium	**1100**		500	110	ug/L		08/13/24 14:45	08/14/24 16:52	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:45	08/14/24 16:52	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:45	08/14/24 16:52	1
Sodium	**67000**		200	77	ug/L		08/13/24 14:45	08/14/24 16:52	1
Strontium	**820**		4.0	0.64	ug/L		08/13/24 14:45	08/14/24 16:52	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:45	08/14/24 16:52	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:52	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:45	08/14/24 16:52	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:45	08/14/24 16:52	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**140**		0.91	0.46	mg/L		08/13/24 14:45	08/15/24 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.47**	**J**	1.0	0.18	mg/L			07/26/24 12:59	1
Nitrate as N (EPA 300.0)	**0.80**	**J**	1.0	0.043	mg/L			07/26/24 12:59	1
Chloride (EPA 300.0)	**51**		5.0	0.58	mg/L			08/10/24 13:27	5
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			07/26/24 12:59	1
Fluoride (EPA 300.0)	**0.39**	**J**	1.0	0.19	mg/L			07/26/24 12:59	1
Nitrate Nitrite as N (EPA 300.0)	**0.80**	**J**	1.0	0.070	mg/L			07/26/24 12:59	1
Sulfate (EPA 300.0)	**41**		1.0	0.21	mg/L			07/26/24 12:59	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/06/24 10:01	08/06/24 14:37	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:34	1
Phosphorus as P (EPA 365.1)	**0.28**	**^1- ^- *-**	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:45	1
Phosphorus as P (EPA 365.1)	**0.19**	**H**	0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:11	1
Alkalinity (SM 2320B)	**140**		5.0	3.7	mg/L			08/06/24 19:24	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**140**		5.0	3.7	mg/L			08/06/24 19:24	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/06/24 19:24	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254102-1

Client Sample ID: DUP-01-GW_20240724
Date Collected: 07/24/24 23:59
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254102-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			07/29/24 15:25	1
Total Dissolved Solids (SM 2540C)	**340**		10	4.3	mg/L			07/30/24 02:12	1
Total Suspended Solids (SM 2540D)	**32**		10	3.9	mg/L			07/31/24 17:48	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			07/31/24 22:28	1
Total Organic Carbon (SM 5310C)	**1.6**		1.0	0.47	mg/L			08/08/24 19:30	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**1.7**		1.0	0.47	mg/L			07/29/24 01:47	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254102-1

Client Sample ID: DUP-01-GW_20240724_FBLL

Lab Sample ID: 500-254102-2

Date Collected: 07/24/24 23:59
Matrix: Water
Date Received: 07/26/24 09:50

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 18:10	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254102-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Dissolved	Water	1630	
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	1630	
MB 350-2490/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2490/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2490/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2490/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2490/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Prep Batch: 2494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Dissolved	Water	1638	
500-254102-1	DUP-01-GW_20240724	Total Recoverable	Water	1638	
MB 350-2494/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2494/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2494/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2494/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-2	DUP-01-GW_20240724_FBLL	Total/NA	Water	1631E	
MB 350-2500/40	Method Blank	Total/NA	Water	1631E	
MB 350-2500/41	Method Blank	Total/NA	Water	1631E	
MB 350-2500/42	Method Blank	Total/NA	Water	1631E	
LCS 350-2500/43	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2500/44	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Dissolved	Water	1638	2494
500-254102-1	DUP-01-GW_20240724	Total Recoverable	Water	1638	2494
MB 350-2494/1-A	Method Blank	Total Recoverable	Water	1638	2494
MB 350-2494/2-A	Method Blank	Total Recoverable	Water	1638	2494
LCS 350-2494/3-A	Lab Control Sample	Total Recoverable	Water	1638	2494
LCSD 350-2494/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2494

Analysis Batch: 2513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Dissolved	Water	1630	2490
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	1630	2490
MB 350-2490/1-A	Method Blank	Total/NA	Water	1630	2490
MB 350-2490/2-A	Method Blank	Total/NA	Water	1630	2490
MB 350-2490/3-A	Method Blank	Total/NA	Water	1630	2490
LCS 350-2490/4-A	Lab Control Sample	Total/NA	Water	1630	2490
LCSD 350-2490/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2490

Analysis Batch: 2531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Dissolved	Water	1631E	
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	1631E	
MB 350-2531/17	Method Blank	Total/NA	Water	1631E	
MB 350-2531/18	Method Blank	Total/NA	Water	1631E	

Metals (Continued)

Analysis Batch: 2531 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 350-2531/19	Method Blank	Total/NA	Water	1631E	
LCS 350-2531/28	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2531/29	Lab Control Sample Dup	Total/NA	Water	1631E	

Prep Batch: 781184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Dissolved	Water	3005A	
500-254102-1	DUP-01-GW_20240724	Total Recoverable	Water	3005A	
MB 500-781184/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781184/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 781573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Dissolved	Water	6020B	781184
500-254102-1	DUP-01-GW_20240724	Total Recoverable	Water	6020B	781184
MB 500-781184/1-A	Method Blank	Total Recoverable	Water	6020B	781184
LCS 500-781184/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781184

Analysis Batch: 781607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total Recoverable	Water	SM 2340B	781184

General Chemistry

Analysis Batch: 778596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	300.0	
MB 500-778596/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778596/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	300.0	
MB 500-778597/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778597/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Dissolved	Water	SM 5310C	
MB 500-778742/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-778742/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 778907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	SM 2540C	
MB 500-778907/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-778907/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 779349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 779349 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-779349/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-779349/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 779429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	SM 4500 S2 F	
MB 500-779429/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-779429/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 779504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	SM 2520B	

Prep Batch: 780072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	Distill/CN	
MB 500-780072/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780072/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	335.4	780072
MB 500-780072/1-A	Method Blank	Total/NA	Water	335.4	780072
LCS 500-780072/2-A	Lab Control Sample	Total/NA	Water	335.4	780072

Analysis Batch: 780255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	SM 2320B	
MB 500-780255/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-780255/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 780794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	300.0	
MB 500-780794/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780794/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	SM 5310C	
MB 500-780802/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-780802/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 780961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	365.2/365.3/365	
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254102-1

General Chemistry

Prep Batch: 781418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	Distill/Ammonia	
MB 500-781418/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 781722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	365.1	780961
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.1	780961
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.1	780961

Analysis Batch: 781794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	350.1	781418
MB 500-781418/1-A	Method Blank	Total/NA	Water	350.1	781418
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	350.1	781418

Prep Batch: 782810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	365.2/365.3/365	
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 782997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254102-1	DUP-01-GW_20240724	Total/NA	Water	365.1	782810
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.1	782810
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.1	782810

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2490/1-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:12	1

Lab Sample ID: MB 350-2490/2-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:22	1

Lab Sample ID: MB 350-2490/3-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:32	1

Lab Sample ID: LCS 350-2490/4-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.920		ng/L		92	65 - 135

Lab Sample ID: LCSD 350-2490/5-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2490

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	1.00		ng/L		100	65 - 135	8	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2500/40
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:16	1

Lab Sample ID: MB 350-2500/41
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:20	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2500/42
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:24	1

Lab Sample ID: LCS 350-2500/43
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.50		ng/L		90	77 - 123

Lab Sample ID: LCSD 350-2500/44
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.47		ng/L		89	77 - 123	1	24

Lab Sample ID: MB 350-2531/17
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 13:47	1

Lab Sample ID: MB 350-2531/18
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 13:51	1

Lab Sample ID: MB 350-2531/19
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 13:55	1

Lab Sample ID: LCS 350-2531/28
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.74		ng/L		95	77 - 123

Lab Sample ID: LCSD 350-2531/29
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.80		ng/L		96	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2494/1-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 13:34	1

Lab Sample ID: MB 350-2494/2-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 13:37	1

Lab Sample ID: LCS 350-2494/3-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium			25.0	23.3		ug/L		93	85 - 115		

Lab Sample ID: LCSD 350-2494/4-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium			25.0	23.3		ug/L		93	85 - 115	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781184/1-A
Matrix: Water
Analysis Batch: 781573

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 14:45	08/14/24 16:18	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:18	1
Arsenic	<0.23		1.0	0.23	ug/L		08/13/24 14:45	08/14/24 16:18	1
Barium	<0.73		2.5	0.73	ug/L		08/13/24 14:45	08/14/24 16:18	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:45	08/14/24 16:18	1
Boron	68.7		50	13	ug/L		08/13/24 14:45	08/14/24 16:18	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:45	08/14/24 16:18	1
Calcium	<44		200	44	ug/L		08/13/24 14:45	08/14/24 16:18	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:45	08/14/24 16:18	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:45	08/14/24 16:18	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 14:45	08/14/24 16:18	1
Iron	<47		100	47	ug/L		08/13/24 14:45	08/14/24 16:18	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:45	08/14/24 16:18	1
Lithium	<2.5	^+	10	2.5	ug/L		08/13/24 14:45	08/14/24 16:18	1
Magnesium	<49		200	49	ug/L		08/13/24 14:45	08/14/24 16:18	1
Manganese	<0.79		2.5	0.79	ug/L		08/13/24 14:45	08/14/24 16:18	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 14:45	08/14/24 16:18	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:45	08/14/24 16:18	1
Potassium	<110		500	110	ug/L		08/13/24 14:45	08/14/24 16:18	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:45	08/14/24 16:18	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-781184/1-A
Matrix: Water
Analysis Batch: 781573

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.927		0.50	0.12	ug/L		08/13/24 14:45	08/14/24 16:18	1
Sodium	<77		200	77	ug/L		08/13/24 14:45	08/14/24 16:18	1
Strontium	<0.64		4.0	0.64	ug/L		08/13/24 14:45	08/14/24 16:18	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:45	08/14/24 16:18	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:18	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:45	08/14/24 16:18	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:45	08/14/24 16:18	1

Lab Sample ID: LCS 500-781184/2-A
Matrix: Water
Analysis Batch: 781573

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2010		ug/L		100	80 - 120
Antimony	500	511		ug/L		102	80 - 120
Arsenic	100	98.9		ug/L		99	80 - 120
Barium	500	505		ug/L		101	80 - 120
Beryllium	50.0	52.8		ug/L		106	80 - 120
Boron	1000	1050		ug/L		105	80 - 120
Cadmium	50.0	49.8		ug/L		100	80 - 120
Calcium	10000	8930		ug/L		89	80 - 120
Chromium	200	215		ug/L		108	80 - 120
Cobalt	500	547		ug/L		109	80 - 120
Copper	250	263		ug/L		105	80 - 120
Iron	1000	1070		ug/L		107	80 - 120
Lead	100	104		ug/L		104	80 - 120
Lithium	100	117	^+	ug/L		117	80 - 120
Magnesium	10000	10800		ug/L		108	80 - 120
Manganese	500	529		ug/L		106	80 - 120
Molybdenum	1000	995		ug/L		99	80 - 120
Nickel	500	520		ug/L		104	80 - 120
Potassium	10000	10600		ug/L		106	80 - 120
Selenium	100	96.3		ug/L		96	80 - 120
Silver	50.0	50.3		ug/L		101	80 - 120
Sodium	10000	10700		ug/L		107	80 - 120
Strontium	1000	990		ug/L		99	80 - 120
Thallium	100	106		ug/L		106	80 - 120
Tin	1000	1010		ug/L		101	80 - 120
Vanadium	500	523		ug/L		105	80 - 120
Zinc	500	500		ug/L		100	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-778596/3
Matrix: Water
Analysis Batch: 778596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			07/26/24 11:57	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-778596/3
Matrix: Water
Analysis Batch: 778596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.19		1.0	0.19	mg/L			07/26/24 11:57	1
Sulfate	<0.21		1.0	0.21	mg/L			07/26/24 11:57	1

Lab Sample ID: LCS 500-778596/4
Matrix: Water
Analysis Batch: 778596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.9		mg/L		99	90 - 110
Fluoride	20.0	21.1		mg/L		105	90 - 110
Sulfate	20.0	21.5		mg/L		108	90 - 110

Lab Sample ID: MB 500-778597/3
Matrix: Water
Analysis Batch: 778597

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			07/26/24 11:57	1
Nitrite as N	<0.070		1.0	0.070	mg/L			07/26/24 11:57	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			07/26/24 11:57	1

Lab Sample ID: LCS 500-778597/4
Matrix: Water
Analysis Batch: 778597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.4		mg/L		97	90 - 110
Nitrite as N	20.0	21.2		mg/L		106	90 - 110
Nitrate Nitrite as N	40.0	40.6		mg/L		101	90 - 110

Lab Sample ID: MB 500-780794/3
Matrix: Water
Analysis Batch: 780794

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/10/24 11:41	1

Lab Sample ID: LCS 500-780794/4
Matrix: Water
Analysis Batch: 780794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.2		mg/L		96	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780072/1-A
Matrix: Water
Analysis Batch: 780194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/06/24 10:01	08/06/24 14:02	1

Lab Sample ID: LCS 500-780072/2-A
Matrix: Water
Analysis Batch: 780194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0966		mg/L		97	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-781418/1-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:26	1

Lab Sample ID: LCS 500-781418/2-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.97		mg/L		99	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780961/1-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^- ^1-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:36	1

Lab Sample ID: LCS 500-780961/2-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.367	^1- *- ^-	mg/L		73	88 - 123

Lab Sample ID: MB 500-782810/1-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:03	1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCS 500-782810/2-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.889		mg/L		89	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-780255/3
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1

Lab Sample ID: LCS 500-780255/4
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	98.0		mg/L		98	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-778907/1
Matrix: Water
Analysis Batch: 778907

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			07/30/24 01:21	1

Lab Sample ID: LCS 500-778907/2
Matrix: Water
Analysis Batch: 778907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-779349/1
Matrix: Water
Analysis Batch: 779349

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			07/31/24 17:40	1

Lab Sample ID: LCS 500-779349/2
Matrix: Water
Analysis Batch: 779349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	185		mg/L		93	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-779429/1
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			07/31/24 22:15	1

Lab Sample ID: LCS 500-779429/2
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.42		mg/L		94	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-780802/7
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/08/24 12:59	1

Lab Sample ID: LCS 500-780802/8
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-778742/7
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			07/28/24 18:19	1

Lab Sample ID: LCS 500-778742/8
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.3		mg/L		103	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254102-1

Client Sample ID: DUP-01-GW_20240724

Lab Sample ID: 500-254102-1

Date Collected: 07/24/24 23:59

Matrix: Water

Date Received: 07/26/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2490	AJD	EET SSM	08/01/24 10:43
Dissolved	Analysis	1630		1	2513	CL	EET SSM	08/02/24 16:55
Total/NA	Prep	1630			2490	AJD	EET SSM	08/01/24 10:43
Total/NA	Analysis	1630		1	2513	CL	EET SSM	08/02/24 16:45
Dissolved	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 16:08
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 16:04
Dissolved	Prep	1638			2494	COW	EET SSM	08/01/24 13:41
Dissolved	Analysis	1638		1	2503	COW	EET SSM	08/02/24 15:24
Total Recoverable	Prep	1638			2494	COW	EET SSM	08/01/24 13:41
Total Recoverable	Analysis	1638		1	2503	COW	EET SSM	08/02/24 15:20
Dissolved	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Dissolved	Analysis	6020B		1	781573	RN	EET CHI	08/14/24 16:52
Total Recoverable	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Total Recoverable	Analysis	6020B		1	781573	RN	EET CHI	08/14/24 16:54
Total Recoverable	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Total Recoverable	Analysis	SM 2340B		1	781607	DAJ	EET CHI	08/15/24 09:56
Total/NA	Analysis	300.0		5	780794	W1T	EET CHI	08/10/24 13:27
Total/NA	Analysis	300.0		1	778596	W1T	EET CHI	07/26/24 12:59
Total/NA	Analysis	300.0		1	778597	W1T	EET CHI	07/26/24 12:59
Total/NA	Prep	Distill/CN			780072	AC	EET CHI	08/06/24 10:01 - 08/06/24 10:31 [1]
Total/NA	Analysis	335.4		1	780194	KF	EET CHI	08/06/24 14:37
Total/NA	Prep	Distill/Ammonia			781418	EB	EET CHI	08/14/24 15:14 - 08/14/24 16:14 [1]
Total/NA	Analysis	350.1		1	781794	KF	EET CHI	08/15/24 17:34
Total/NA	Prep	365.2/365.3/365			780961	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:40 [1]
Total/NA	Analysis	365.1		1	781722	LP	EET CHI	08/13/24 17:45
Total/NA	Prep	365.2/365.3/365			782810	ER	EET CHI	08/22/24 14:15 - 08/22/24 18:15 [1]
Total/NA	Analysis	365.1		1	782997	KF	EET CHI	08/23/24 12:11
Total/NA	Analysis	SM 2320B		1	780255	SO	EET CHI	08/06/24 19:24
Total/NA	Analysis	SM 2520B		1	779504	TR	EET CHI	07/29/24 15:25
Total/NA	Analysis	SM 2540C		1	778907	CLB	EET CHI	07/30/24 02:12
Total/NA	Analysis	SM 2540D		1	779349	SO	EET CHI	07/31/24 17:48 - 07/31/24 17:50 [1]
Total/NA	Analysis	SM 4500 S2 F		1	779429	CLB	EET CHI	07/31/24 22:28 - 07/31/24 22:32 [1]
Dissolved	Analysis	SM 5310C		1	778742	TR	EET CHI	07/29/24 01:47
Total/NA	Analysis	SM 5310C		1	780802	TR	EET CHI	08/08/24 19:30

Client Sample ID: DUP-01-GW_20240724_FBLL

Lab Sample ID: 500-254102-2

Date Collected: 07/24/24 23:59

Matrix: Water

Date Received: 07/26/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 18:10

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254102-1

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254102-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 2136	COC No: 500-126351-50241 19
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254102
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

500-254102 COC

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC SM5310	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, 5560_6R_B; SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	300_6R_B - Dissolved Chromium, HEX (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
Preservation Code:							S	N	CB	B	S	D	D	N	A	D	D	N	N		
1 DUP-01-GW-20240724	7-24-24	—	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	18	
2 DUP-01-GW-20240724-MS/MSD	7-24-24	—	G	Water										X				MS		2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FEDEX PRIORITY overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/25/24 1200	MSG		7/25/24 1200	MSG
2		7/25/24 1600	MSG	4051 7962 2136	7/25/24 1600	FEDEX
3				Stephanie Hemond	7/26/24 0950	EEA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 0.9 + 0.8

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 2136	COC No: 500-126351-50241 20
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254102
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
1 DUP-01-6W_20240724	7-24-24	-	G	Water			X	1	
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FEDEX Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/25/24 1200	MSG		7/25/24 1200	MSG
2		7/25/24 1600	MSG	4051 7962 2136	7/25/24 1600	Fedex
3				Stephanie Hemond	7/26/24 0045	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks:



500-254102 Waybi

48qt

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254102-1

Login Number: 254102
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254102-1

Login Number: 254102
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 07/30/24 01:12 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500 254102 Field Sheet

Date:	7/30/2024
End Time:	13:30
KI Paper Lot:	na
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	19628
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-254102-A-1	A	Y	.8	2	
500-254102-B-1	A	Y	.8	2	
500-254102-C-1	A	Y	.8	2	
500-254102-D-1	A	Y	.8	2	
500-254102-B-2	A	Y	.8	2	
500-254102-A-2	A	Y	.8	2	

7/30/24

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500-254102 Field Sheet

Date:	7/30/2024
End Time:	1340
pH Paper Lot:	HC324723
Analyst:	JL

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254102-F-1	<2	NA	NA	NA	NA
500-254102-E-1	<2	NA	NA	NA	NA

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/23/2024 4:37:59 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254105-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/23/2024 4:37:59 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254105-1

Receipt
The samples were received on 07/26/24 09:50. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8º C.

Receipt Exceptions
The dissolved 1631 portions for the following samples were in a cooler that was delayed in transit:

500-254101-02
500-254102-02
500-254105-01
500-254108-02

MLR-01_20240725 (500-254105-1) and MLR-01_20240725_FBLL (500-254105-2)

Metals
Method 6020B: The method blank for preparation batch 500-781184 contained Boron and Silver above the reporting limit (RL). None of the samples associated with this method blank contained the target compound above the reporting limit; therefore, re-extraction and/or re-analysis of samples were not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 365.1: ICV recovered low at 76% Recovery. Samples were reprepped out of hold. (ICV 500-781722/9)

Method 365.1: CCV failed low. Samples were reprepped out of hold. (CCV 500-780961/25-A)

Method 365.1: Reanalysis of the following sample was performed outside of the analytical holding time due to QC failure during initial analysis. : MLR-01_20240725 (500-254105-1).Both sets of data are being reported.

Method 365.1: LCS failed low. Samples were reprepped out of hold. Both sets of data are reported. (LCS 500-780961/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254105-1

Client Sample ID: MLR-01_20240725

Lab Sample ID: 500-254105-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.14		0.050	0.022	ng/L	1		1630	Total/NA
Methyl Mercury	0.11		0.050	0.022	ng/L	1		1630	Dissolved
Mercury	1.6		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	1.3		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.54		0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.48		0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	250		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.61	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	32		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	38	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	19000		200	44	ug/L	1		6020B	Total Recoverable
Copper	4.2		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	770		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	5300		200	49	ug/L	1		6020B	Total Recoverable
Manganese	33		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1300		500	110	ug/L	1		6020B	Total Recoverable
Sodium	3200		200	77	ug/L	1		6020B	Total Recoverable
Strontium	66		4.0	0.64	ug/L	1		6020B	Total Recoverable
Aluminum	40	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.58	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	29		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	40	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	19000		200	44	ug/L	1		6020B	Dissolved
Copper	3.9		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	370		100	47	ug/L	1		6020B	Dissolved
Magnesium	5400		200	49	ug/L	1		6020B	Dissolved
Manganese	28		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1200		500	110	ug/L	1		6020B	Dissolved
Sodium	3400		200	77	ug/L	1		6020B	Dissolved
Strontium	66		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	69		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Nitrate as N	0.44	J	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	1.2		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.23	J	1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.44	J	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	1.0		1.0	0.21	mg/L	1		300.0	Total/NA
Cyanide, Total	0.0048	J	0.0050	0.0036	mg/L	1		335.4	Total/NA
Phosphorus as P	0.034	J H	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	72		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	72		5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254105-1

Client Sample ID: MLR-01_20240725 (Continued) — Lab Sample ID: 500-254105-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	36		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	3.0	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	11		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	11		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MLR-01_20240725_FBLL — Lab Sample ID: 500-254105-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254105-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254105-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254105-1	MLR-01_20240725	Water	07/25/24 09:30	07/26/24 09:50
500-254105-2	MLR-01_20240725_FBLL	Water	07/25/24 09:30	07/26/24 09:50

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254105-1

Client Sample ID: MLR-01_20240725

Date Collected: 07/25/24 09:30
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254105-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.14**		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 17:05	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.11**		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 17:16	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.6**		0.50	0.20	ng/L			08/02/24 18:15	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.3**		0.50	0.20	ng/L			08/02/24 18:19	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.54**		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 15:27	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.48**		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 15:31	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**250**		100	25	ug/L		08/13/24 14:45	08/14/24 17:03	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:45	08/14/24 17:03	1
Arsenic	**0.61**	**J**	1.0	0.23	ug/L		08/13/24 14:45	08/14/24 17:03	1
Barium	**32**		2.5	0.73	ug/L		08/13/24 14:45	08/14/24 17:03	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:45	08/14/24 17:03	1
Boron	**38**	**J B**	50	13	ug/L		08/13/24 14:45	08/14/24 17:03	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:45	08/14/24 17:03	1
Calcium	**19000**		200	44	ug/L		08/13/24 14:45	08/14/24 17:03	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:45	08/14/24 17:03	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:45	08/14/24 17:03	1
Copper	**4.2**		2.0	0.50	ug/L		08/13/24 14:45	08/14/24 17:03	1
Iron	**770**		100	47	ug/L		08/13/24 14:45	08/14/24 17:03	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:45	08/14/24 17:03	1
Lithium	<2.5	^+	10	2.5	ug/L		08/13/24 14:45	08/14/24 17:03	1
Magnesium	**5300**		200	49	ug/L		08/13/24 14:45	08/14/24 17:03	1
Manganese	**33**		2.5	0.79	ug/L		08/13/24 14:45	08/14/24 17:03	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 14:45	08/14/24 17:03	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:45	08/14/24 17:03	1
Potassium	**1300**		500	110	ug/L		08/13/24 14:45	08/14/24 17:03	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:45	08/14/24 17:03	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:45	08/15/24 11:39	1
Sodium	**3200**		200	77	ug/L		08/13/24 14:45	08/15/24 11:39	1
Strontium	**66**		4.0	0.64	ug/L		08/13/24 14:45	08/14/24 17:03	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:45	08/14/24 17:03	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:45	08/14/24 17:03	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:45	08/14/24 17:03	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:45	08/14/24 17:03	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254105-1

Client Sample ID: MLR-01_20240725

Date Collected: 07/25/24 09:30
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254105-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**40**	**J**	100	25	ug/L		08/13/24 14:45	08/14/24 17:01	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:45	08/14/24 17:01	1
Arsenic	**0.58**	**J**	1.0	0.23	ug/L		08/13/24 14:45	08/14/24 17:01	1
Barium	**29**		2.5	0.73	ug/L		08/13/24 14:45	08/14/24 17:01	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:45	08/14/24 17:01	1
Boron	**40**	**J B**	50	13	ug/L		08/13/24 14:45	08/14/24 17:01	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:45	08/14/24 17:01	1
Calcium	**19000**		200	44	ug/L		08/13/24 14:45	08/14/24 17:01	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:45	08/14/24 17:01	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:45	08/14/24 17:01	1
Copper	**3.9**		2.0	0.50	ug/L		08/13/24 14:45	08/14/24 17:01	1
Iron	**370**		100	47	ug/L		08/13/24 14:45	08/14/24 17:01	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:45	08/14/24 17:01	1
Lithium	<2.5	^+	10	2.5	ug/L		08/13/24 14:45	08/14/24 17:01	1
Magnesium	**5400**		200	49	ug/L		08/13/24 14:45	08/14/24 17:01	1
Manganese	**28**		2.5	0.79	ug/L		08/13/24 14:45	08/14/24 17:01	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 14:45	08/14/24 17:01	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:45	08/14/24 17:01	1
Potassium	**1200**		500	110	ug/L		08/13/24 14:45	08/14/24 17:01	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:45	08/14/24 17:01	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:45	08/15/24 11:37	1
Sodium	**3400**		200	77	ug/L		08/13/24 14:45	08/15/24 11:37	1
Strontium	**66**		4.0	0.64	ug/L		08/13/24 14:45	08/14/24 17:01	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:45	08/14/24 17:01	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:45	08/14/24 17:01	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:45	08/14/24 17:01	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:45	08/14/24 17:01	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**69**		0.91	0.46	mg/L		08/13/24 14:45	08/15/24 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			07/26/24 13:46	1
Nitrate as N (EPA 300.0)	**0.44**	**J**	1.0	0.043	mg/L			07/26/24 13:46	1
Chloride (EPA 300.0)	**1.2**		1.0	0.12	mg/L			07/26/24 13:46	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			07/26/24 13:46	1
Fluoride (EPA 300.0)	**0.23**	**J**	1.0	0.19	mg/L			07/26/24 13:46	1
Nitrate Nitrite as N (EPA 300.0)	**0.44**	**J**	1.0	0.070	mg/L			07/26/24 13:46	1
Sulfate (EPA 300.0)	**1.0**		1.0	0.21	mg/L			07/26/24 13:46	1
Cyanide, Total (EPA 335.4)	**0.0048**	**J**	0.0050	0.0036	mg/L		08/06/24 11:24	08/07/24 13:37	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:34	1
Phosphorus as P (EPA 365.1)	<0.024	^1- *- ^-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:46	1
Phosphorus as P (EPA 365.1)	**0.034**	**J H**	0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:11	1
Alkalinity (SM 2320B)	**72**		5.0	3.7	mg/L			08/07/24 00:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**72**		5.0	3.7	mg/L			08/07/24 00:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/07/24 00:04	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254105-1

Client Sample ID: MLR-01_20240725
Date Collected: 07/25/24 09:30
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254105-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			07/29/24 15:21	1
Total Dissolved Solids (SM 2540C)	**36**		10	4.3	mg/L			07/31/24 02:40	1
Total Suspended Solids (SM 2540D)	**3.0**	**J**	5.0	1.9	mg/L			08/01/24 15:54	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			07/31/24 22:53	1
Total Organic Carbon (SM 5310C)	**11**		1.0	0.47	mg/L			08/08/24 19:58	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**11**		1.0	0.47	mg/L			07/29/24 05:03	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254105-1

Client Sample ID: MLR-01_20240725_FBLL
Date Collected: 07/25/24 09:30
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254105-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 18:23	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254105-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Dissolved	Water	1630	
500-254105-1	MLR-01_20240725	Total/NA	Water	1630	
MB 350-2490/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2490/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2490/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2490/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2490/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Prep Batch: 2494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Dissolved	Water	1638	
500-254105-1	MLR-01_20240725	Total Recoverable	Water	1638	
MB 350-2494/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2494/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2494/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2494/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Dissolved	Water	1631E	
500-254105-1	MLR-01_20240725	Total/NA	Water	1631E	
500-254105-2	MLR-01_20240725_FBLL	Total/NA	Water	1631E	
MB 350-2500/40	Method Blank	Total/NA	Water	1631E	
MB 350-2500/41	Method Blank	Total/NA	Water	1631E	
MB 350-2500/42	Method Blank	Total/NA	Water	1631E	
LCS 350-2500/43	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2500/44	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Dissolved	Water	1638	2494
500-254105-1	MLR-01_20240725	Total Recoverable	Water	1638	2494
MB 350-2494/1-A	Method Blank	Total Recoverable	Water	1638	2494
MB 350-2494/2-A	Method Blank	Total Recoverable	Water	1638	2494
LCS 350-2494/3-A	Lab Control Sample	Total Recoverable	Water	1638	2494
LCSD 350-2494/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2494

Analysis Batch: 2513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Dissolved	Water	1630	2490
500-254105-1	MLR-01_20240725	Total/NA	Water	1630	2490
MB 350-2490/1-A	Method Blank	Total/NA	Water	1630	2490
MB 350-2490/2-A	Method Blank	Total/NA	Water	1630	2490
MB 350-2490/3-A	Method Blank	Total/NA	Water	1630	2490
LCS 350-2490/4-A	Lab Control Sample	Total/NA	Water	1630	2490
LCSD 350-2490/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2490

Prep Batch: 781184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Dissolved	Water	3005A	
500-254105-1	MLR-01_20240725	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 781184 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-781184/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781184/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 781573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Dissolved	Water	6020B	781184
500-254105-1	MLR-01_20240725	Total Recoverable	Water	6020B	781184
MB 500-781184/1-A	Method Blank	Total Recoverable	Water	6020B	781184
LCS 500-781184/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781184

Analysis Batch: 781608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total Recoverable	Water	SM 2340B	781184

Analysis Batch: 781683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Dissolved	Water	6020B	781184
500-254105-1	MLR-01_20240725	Total Recoverable	Water	6020B	781184
MB 500-781184/1-A	Method Blank	Total Recoverable	Water	6020B	781184
LCS 500-781184/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781184

General Chemistry

Analysis Batch: 778596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	300.0	
MB 500-778596/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778596/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	300.0	
MB 500-778597/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778597/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Dissolved	Water	SM 5310C	
MB 500-778742/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-778742/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 779153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	SM 2540C	
MB 500-779153/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779153/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 779429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	SM 4500 S2 F	
MB 500-779429/1	Method Blank	Total/NA	Water	SM 4500 S2 F	

General Chemistry (Continued)

Analysis Batch: 779429 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-779429/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 779504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	SM 2520B	

Analysis Batch: 779603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	SM 2540D	
MB 500-779603/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-779603/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 780092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	Distill/CN	
MB 500-780092/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780092/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	SM 2320B	
MB 500-780255/53	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-780255/54	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 780323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	335.4	780092
MB 500-780092/1-A	Method Blank	Total/NA	Water	335.4	780092
LCS 500-780092/2-A	Lab Control Sample	Total/NA	Water	335.4	780092

Analysis Batch: 780802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	SM 5310C	
MB 500-780802/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-780802/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 780961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	365.2/365.3/365	
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Prep Batch: 781418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	Distill/Ammonia	
MB 500-781418/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 781722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	365.1	780961

General Chemistry (Continued)

Analysis Batch: 781722 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.1	780961
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.1	780961

Analysis Batch: 781794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	350.1	781418
MB 500-781418/1-A	Method Blank	Total/NA	Water	350.1	781418
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	350.1	781418

Prep Batch: 782810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	365.2/365.3/365	
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 782997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254105-1	MLR-01_20240725	Total/NA	Water	365.1	782810
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.1	782810
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.1	782810

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2490/1-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:12	1

Lab Sample ID: MB 350-2490/2-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:22	1

Lab Sample ID: MB 350-2490/3-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:32	1

Lab Sample ID: LCS 350-2490/4-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.920		ng/L		92	65 - 135

Lab Sample ID: LCSD 350-2490/5-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2490

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	1.00		ng/L		100	65 - 135	8	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2500/40
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:16	1

Lab Sample ID: MB 350-2500/41
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:20	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2500/42
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:24	1

Lab Sample ID: LCS 350-2500/43
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.50		ng/L		90	77 - 123

Lab Sample ID: LCSD 350-2500/44
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.47		ng/L		89	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2494/1-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 13:34	1

Lab Sample ID: MB 350-2494/2-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 13:37	1

Lab Sample ID: LCS 350-2494/3-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	23.3		ug/L		93	85 - 115

Lab Sample ID: LCSD 350-2494/4-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	23.3		ug/L		93	85 - 115	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781184/1-A
Matrix: Water
Analysis Batch: 781573

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 14:45	08/14/24 16:18	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:18	1
Arsenic	<0.23		1.0	0.23	ug/L		08/13/24 14:45	08/14/24 16:18	1
Barium	<0.73		2.5	0.73	ug/L		08/13/24 14:45	08/14/24 16:18	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:45	08/14/24 16:18	1
Boron	68.7		50	13	ug/L		08/13/24 14:45	08/14/24 16:18	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:45	08/14/24 16:18	1
Calcium	<44		200	44	ug/L		08/13/24 14:45	08/14/24 16:18	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:45	08/14/24 16:18	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:45	08/14/24 16:18	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 14:45	08/14/24 16:18	1
Iron	<47		100	47	ug/L		08/13/24 14:45	08/14/24 16:18	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:45	08/14/24 16:18	1
Lithium	<2.5	^+	10	2.5	ug/L		08/13/24 14:45	08/14/24 16:18	1
Magnesium	<49		200	49	ug/L		08/13/24 14:45	08/14/24 16:18	1
Manganese	<0.79		2.5	0.79	ug/L		08/13/24 14:45	08/14/24 16:18	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 14:45	08/14/24 16:18	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:45	08/14/24 16:18	1
Potassium	<110		500	110	ug/L		08/13/24 14:45	08/14/24 16:18	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:45	08/14/24 16:18	1
Sodium	<77		200	77	ug/L		08/13/24 14:45	08/14/24 16:18	1
Strontium	<0.64		4.0	0.64	ug/L		08/13/24 14:45	08/14/24 16:18	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:45	08/14/24 16:18	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:18	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:45	08/14/24 16:18	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:45	08/14/24 16:18	1

Lab Sample ID: MB 500-781184/1-A
Matrix: Water
Analysis Batch: 781683

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:45	08/15/24 11:04	1

Lab Sample ID: LCS 500-781184/2-A
Matrix: Water
Analysis Batch: 781573

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2010		ug/L		100	80 - 120
Antimony	500	511		ug/L		102	80 - 120
Arsenic	100	98.9		ug/L		99	80 - 120
Barium	500	505		ug/L		101	80 - 120
Beryllium	50.0	52.8		ug/L		106	80 - 120
Boron	1000	1050		ug/L		105	80 - 120
Cadmium	50.0	49.8		ug/L		100	80 - 120
Calcium	10000	8930		ug/L		89	80 - 120
Chromium	200	215		ug/L		108	80 - 120
Cobalt	500	547		ug/L		109	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781184/2-A
Matrix: Water
Analysis Batch: 781573

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	250	263		ug/L		105	80 - 120
Iron	1000	1070		ug/L		107	80 - 120
Lead	100	104		ug/L		104	80 - 120
Lithium	100	117	^+	ug/L		117	80 - 120
Magnesium	10000	10800		ug/L		108	80 - 120
Manganese	500	529		ug/L		106	80 - 120
Molybdenum	1000	995		ug/L		99	80 - 120
Nickel	500	520		ug/L		104	80 - 120
Potassium	10000	10600		ug/L		106	80 - 120
Selenium	100	96.3		ug/L		96	80 - 120
Sodium	10000	10700		ug/L		107	80 - 120
Strontium	1000	990		ug/L		99	80 - 120
Thallium	100	106		ug/L		106	80 - 120
Tin	1000	1010		ug/L		101	80 - 120
Vanadium	500	523		ug/L		105	80 - 120
Zinc	500	500		ug/L		100	80 - 120

Lab Sample ID: LCS 500-781184/2-A
Matrix: Water
Analysis Batch: 781683

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	50.0	50.1		ug/L		100	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-778596/3
Matrix: Water
Analysis Batch: 778596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			07/26/24 11:57	1
Chloride	<0.12		1.0	0.12	mg/L			07/26/24 11:57	1
Fluoride	<0.19		1.0	0.19	mg/L			07/26/24 11:57	1
Sulfate	<0.21		1.0	0.21	mg/L			07/26/24 11:57	1

Lab Sample ID: LCS 500-778596/4
Matrix: Water
Analysis Batch: 778596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.9		mg/L		99	90 - 110
Chloride	20.0	21.0		mg/L		105	90 - 110
Fluoride	20.0	21.1		mg/L		105	90 - 110
Sulfate	20.0	21.5		mg/L		108	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-778597/3
Matrix: Water
Analysis Batch: 778597

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			07/26/24 11:57	1
Nitrite as N	<0.070		1.0	0.070	mg/L			07/26/24 11:57	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			07/26/24 11:57	1

Lab Sample ID: LCS 500-778597/4
Matrix: Water
Analysis Batch: 778597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.4		mg/L		97	90 - 110
Nitrite as N	20.0	21.2		mg/L		106	90 - 110
Nitrate Nitrite as N	40.0	40.6		mg/L		101	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780092/1-A
Matrix: Water
Analysis Batch: 780323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/06/24 11:24	08/07/24 13:06	1

Lab Sample ID: LCS 500-780092/2-A
Matrix: Water
Analysis Batch: 780323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.102		mg/L		102	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-781418/1-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:26	1

Lab Sample ID: LCS 500-781418/2-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.97		mg/L		99	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780961/1-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^- ^1-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:36	1

Lab Sample ID: LCS 500-780961/2-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.367	^1- *- ^-	mg/L		73	88 - 123

Lab Sample ID: MB 500-782810/1-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:03	1

Lab Sample ID: LCS 500-782810/2-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.889		mg/L		89	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-780255/53
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/06/24 23:21	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 23:21	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 23:21	1

Lab Sample ID: LCS 500-780255/54
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	105		mg/L		105	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-779153/1
Matrix: Water
Analysis Batch: 779153

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			07/31/24 02:17	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 500-779153/2
Matrix: Water
Analysis Batch: 779153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	246		mg/L		98	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-779603/1
Matrix: Water
Analysis Batch: 779603

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/01/24 15:30	1

Lab Sample ID: LCS 500-779603/2
Matrix: Water
Analysis Batch: 779603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	186		mg/L		93	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-779429/1
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			07/31/24 22:15	1

Lab Sample ID: LCS 500-779429/2
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.42		mg/L		94	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-780802/7
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/08/24 12:59	1

Lab Sample ID: LCS 500-780802/8
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-778742/7
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			07/28/24 18:19	1

Lab Sample ID: LCS 500-778742/8
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.3		mg/L		103	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254105-1

Client Sample ID: MLR-01_20240725

Date Collected: 07/25/24 09:30
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254105-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2490	AJD	EET SSM	08/01/24 10:43
Dissolved	Analysis	1630		1	2513	CL	EET SSM	08/02/24 17:16
Total/NA	Prep	1630			2490	AJD	EET SSM	08/01/24 10:43
Total/NA	Analysis	1630		1	2513	CL	EET SSM	08/02/24 17:05
Dissolved	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 18:19
Total/NA	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 18:15
Dissolved	Prep	1638			2494	COW	EET SSM	08/01/24 13:41
Dissolved	Analysis	1638		1	2503	COW	EET SSM	08/02/24 15:31
Total Recoverable	Prep	1638			2494	COW	EET SSM	08/01/24 13:41
Total Recoverable	Analysis	1638		1	2503	COW	EET SSM	08/02/24 15:27
Dissolved	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Dissolved	Analysis	6020B		1	781573	RN	EET CHI	08/14/24 17:01
Dissolved	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Dissolved	Analysis	6020B		1	781683	RN	EET CHI	08/15/24 11:37
Total Recoverable	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Total Recoverable	Analysis	6020B		1	781573	RN	EET CHI	08/14/24 17:03
Total Recoverable	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Total Recoverable	Analysis	6020B		1	781683	RN	EET CHI	08/15/24 11:39
Total Recoverable	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Total Recoverable	Analysis	SM 2340B		1	781608	DAJ	EET CHI	08/15/24 09:56
Total/NA	Analysis	300.0		1	778596	W1T	EET CHI	07/26/24 13:46
Total/NA	Analysis	300.0		1	778597	W1T	EET CHI	07/26/24 13:46
Total/NA	Prep	Distill/CN			780092	AC	EET CHI	08/06/24 11:24 - 08/06/24 11:54 [1]
Total/NA	Analysis	335.4		1	780323	AC	EET CHI	08/07/24 13:37
Total/NA	Prep	Distill/Ammonia			781418	EB	EET CHI	08/14/24 15:14 - 08/14/24 16:14 [1]
Total/NA	Analysis	350.1		1	781794	KF	EET CHI	08/15/24 17:34
Total/NA	Prep	365.2/365.3/365			780961	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:40 [1]
Total/NA	Analysis	365.1		1	781722	LP	EET CHI	08/13/24 17:46
Total/NA	Prep	365.2/365.3/365			782810	ER	EET CHI	08/22/24 14:15 - 08/22/24 18:15 [1]
Total/NA	Analysis	365.1		1	782997	KF	EET CHI	08/23/24 12:11
Total/NA	Analysis	SM 2320B		1	780255	SO	EET CHI	08/07/24 00:04
Total/NA	Analysis	SM 2520B		1	779504	TR	EET CHI	07/29/24 15:21
Total/NA	Analysis	SM 2540C		1	779153	CLB	EET CHI	07/31/24 02:40
Total/NA	Analysis	SM 2540D		1	779603	SO	EET CHI	08/01/24 15:54 - 08/01/24 15:55 [1]
Total/NA	Analysis	SM 4500 S2 F		1	779429	CLB	EET CHI	07/31/24 22:53 - 07/31/24 22:56 [1]
Dissolved	Analysis	SM 5310C		1	778742	TR	EET CHI	07/29/24 05:03
Total/NA	Analysis	SM 5310C		1	780802	TR	EET CHI	08/08/24 19:58

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254105-1

Client Sample ID: MLR-01_20240725_FBLL

Date Collected: 07/25/24 09:30
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254105-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 18:23

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254105-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	08-07-24
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	08-07-24
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1265	COC No: 500-126351-50241 13
Client Contact: Amanda Zeidler	Phone: 517 513 2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254105
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

500-254105 COC

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC SM5310D	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, ~~2540C_CB_B~~ SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	3500_CR_B - Dissolved Chromium, Hex (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	N		
1	MLR-01_20240725	07-25-24	0930	G	Water			V	V	V	V	V	V	V	V	V	V	V		V	18	
2	MLR-01_20240725_FBLL	07-25-24	0930	G	Water										V						2	
	NTC-01_20240725	07-25-24	1240	G	Water				V												1	- 500-253864
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	7/25/24 ~~1500~~ 1900	MSG		7/25/24 ~~1500~~ 1900	MSG
2		7/25/24 1600	MSG	4051 7962 1265	7/25/24 1600	Fedex
3		Date/Time	Company	Stephanie Hernandez	7/26/24 0950	EETA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 3.9+3.8

Ver: 04/02/2024

8/23/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1265	COC No: 500-126351-50241 14
Client Contact: Amanda Zeidler	Phone: 517 513 2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 600-254105
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N - None; CB - ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
1 MLE-01_20240725	07-25-24	0930	G	Water			✓	1	
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/25/24 1400	MSG		7/25/24 1400	MSG
2		7/25/24 1600	MSG	4051 7962 1265	7/25/24 1600	Fedex
3		Date/Time	Company		Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks


JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808

Part # 5946P-434 MTW EXP 01/25

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200 REF:
INV:
PO: DEPT:

RMA:

FedEx Express

J24102811220101w

RETURNS MON-SAT
PRIORITY OVERNIGHT

TRK# 4051 7962 1265

FedEx.

TRK# 0221 4051 7962 1265

FRI - 26 JUL AA
PRIORITY OVERNIGHT

XP JOTA

60484
IL-US
ORD

3732349 25Jul2024 CMXA 581G9/E0E4/C0B8

39-738

48at

500-254105 Waybi

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254105-1

Login Number: 254105
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254105-1

Login Number: 254105
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 07/30/24 01:12 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254105 Field Sheet

Date:	7/30/2024
End Time:	13:30
KI Paper Lot:	na
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	19628
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-254105-A-1	A	Y	8	2	
500-254105-B-1	A	Y	.8	2	
500-254105-A-2	A	Y	.8	2	
500-254105-B-2	A	Y	.8	2	
500-254105-C-1	A	Y	.8	2	
500-254105-D-1	A	Y	.8	2	

PL 7/30/24

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500-254105 Field Sheet

Date:	7/30/2024
End Time:	13:40
pH Paper Lot:	HC324723
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254105-F-1	<2	NA	NA	NA	NA
500-254105-E-1	<2				

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

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JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254108-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254108-1

Receipt
The samples were received on 07/26/24 09:50. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3º C.

Receipt Exceptions
The dissolved 1631 portions for the following samples were in a cooler that was delayed in transit:

500-254101-02
500-254102-02
500-254105-01
500-254108-02

NB2-1_20240724 (500-254108-1) and NB2-1_20240724_FBLL (500-254108-2)

Metals
Method 6020B: The method blank for preparation batch 500-781184 and analytical batch 500-781573 contained Boron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The following sample was received with less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: NB2-1_20240724 (500-254108-1).

Method 365.1: ICV recovered low at 76% Recovery. Samples were reprepped out of hold. (ICV 500-781722/9)

Method 365.1: CCV failed low. Samples were reprepped out of hold. (CCV 500-780961/25-A)

Method 365.1: Reanalysis of the following sample was performed outside of the analytical holding time due to QC failure during initial analysis. : NB2-1_20240724 (500-254108-1).Both sets of data are being reported.

Method 365.1: LCS failed low. Samples were reprepped out of hold. Both sets of data are reported. (LCS 500-780961/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254108-1

Client Sample ID: NB2-1_20240724

Lab Sample ID: 500-254108-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.26	J	0.50	0.20	ng/L	1		1631E	Total/NA
Uranium	0.16		0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.17		0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	65	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.32	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	6300		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	1400	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	210000		200	44	ug/L	1		6020B	Total Recoverable
Copper	4.0		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	2400		100	47	ug/L	1		6020B	Total Recoverable
Lithium	65		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	67000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	2300		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	26000		500	110	ug/L	1		6020B	Total Recoverable
Sodium	210000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	3800		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	3.8	J	5.0	2.2	ug/L	1		6020B	Total Recoverable
Arsenic	0.28	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	6600		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	1300	B	50	13	ug/L	1		6020B	Dissolved
Calcium	210000		200	44	ug/L	1		6020B	Dissolved
Copper	0.94	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	1900		100	47	ug/L	1		6020B	Dissolved
Lithium	64		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	65000		200	49	ug/L	1		6020B	Dissolved
Manganese	2200		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	25000		500	110	ug/L	1		6020B	Dissolved
Sodium	200000		200	77	ug/L	1		6020B	Dissolved
Strontium	3700		4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	3.4	J	5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	800		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	2.9		1.0	0.18	mg/L	1		300.0	Total/NA
Nitrate as N	0.42	J H	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	280		20	2.3	mg/L	20		300.0	Total/NA
Fluoride	0.27	J	1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.42	J H	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	14		1.0	0.21	mg/L	1		300.0	Total/NA
Ammonia	0.36		0.20	0.10	mg/L	1		350.1	Total/NA
Phosphorus as P	0.026	J H	0.050	0.024	mg/L	1		365.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NB2-1_20240724 (Continued) — Lab Sample ID: 500-254108-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity	760		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	760		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	1.2		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	1300		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	11		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	4.9		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	4.1		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: NB2-1_20240724_FBLL — Lab Sample ID: 500-254108-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254108-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254108-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254108-1	NB2-1_20240724	Water	07/24/24 13:00	07/26/24 09:50
500-254108-2	NB2-1_20240724_FBLL	Water	07/24/24 13:00	07/26/24 09:50

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254108-1

Client Sample ID: NB2-1_20240724

Date Collected: 07/24/24 13:00
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254108-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 17:26	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 17:36	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.26**	**J**	0.50	0.20	ng/L			08/02/24 18:27	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 18:31	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.16**		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 15:35	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.17**		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 15:46	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**65**	**J**	100	25	ug/L		08/13/24 14:45	08/14/24 17:08	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:45	08/14/24 17:08	1
Arsenic	**0.32**	**J**	1.0	0.23	ug/L		08/13/24 14:45	08/14/24 17:08	1
Barium	**6300**		2.5	0.73	ug/L		08/13/24 14:45	08/14/24 17:08	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:45	08/14/24 17:08	1
Boron	**1400**	**B**	50	13	ug/L		08/13/24 14:45	08/14/24 17:08	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:45	08/14/24 17:08	1
Calcium	**210000**		200	44	ug/L		08/13/24 14:45	08/14/24 17:08	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:45	08/14/24 17:08	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:45	08/14/24 17:08	1
Copper	**4.0**		2.0	0.50	ug/L		08/13/24 14:45	08/14/24 17:08	1
Iron	**2400**		100	47	ug/L		08/13/24 14:45	08/14/24 17:08	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:45	08/14/24 17:08	1
Lithium	**65**		10	2.5	ug/L		08/13/24 14:45	08/15/24 11:44	1
Magnesium	**67000**		200	49	ug/L		08/13/24 14:45	08/14/24 17:08	1
Manganese	**2300**		2.5	0.79	ug/L		08/13/24 14:45	08/14/24 17:08	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 14:45	08/14/24 17:08	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:45	08/14/24 17:08	1
Potassium	**26000**		500	110	ug/L		08/13/24 14:45	08/14/24 17:08	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:45	08/14/24 17:08	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:45	08/15/24 11:44	1
Sodium	**210000**		200	77	ug/L		08/13/24 14:45	08/15/24 11:44	1
Strontium	**3800**		4.0	0.64	ug/L		08/13/24 14:45	08/14/24 17:08	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:45	08/14/24 17:08	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:45	08/14/24 17:08	1
Vanadium	**3.8**	**J**	5.0	2.2	ug/L		08/13/24 14:45	08/14/24 17:08	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:45	08/14/24 17:08	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254108-1

Client Sample ID: NB2-1_20240724

Date Collected: 07/24/24 13:00
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254108-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 14:45	08/14/24 17:06	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:45	08/14/24 17:06	1
Arsenic	**0.28**	**J**	1.0	0.23	ug/L		08/13/24 14:45	08/14/24 17:06	1
Barium	**6600**		2.5	0.73	ug/L		08/13/24 14:45	08/14/24 17:06	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:45	08/14/24 17:06	1
Boron	**1300**	**B**	50	13	ug/L		08/13/24 14:45	08/14/24 17:06	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:45	08/14/24 17:06	1
Calcium	**210000**		200	44	ug/L		08/13/24 14:45	08/14/24 17:06	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:45	08/14/24 17:06	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:45	08/14/24 17:06	1
Copper	**0.94**	**J**	2.0	0.50	ug/L		08/13/24 14:45	08/14/24 17:06	1
Iron	**1900**		100	47	ug/L		08/13/24 14:45	08/14/24 17:06	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:45	08/14/24 17:06	1
Lithium	**64**		10	2.5	ug/L		08/13/24 14:45	08/15/24 11:41	1
Magnesium	**65000**		200	49	ug/L		08/13/24 14:45	08/14/24 17:06	1
Manganese	**2200**		2.5	0.79	ug/L		08/13/24 14:45	08/14/24 17:06	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 14:45	08/14/24 17:06	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:45	08/14/24 17:06	1
Potassium	**25000**		500	110	ug/L		08/13/24 14:45	08/14/24 17:06	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:45	08/14/24 17:06	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:45	08/15/24 11:41	1
Sodium	**200000**		200	77	ug/L		08/13/24 14:45	08/15/24 11:41	1
Strontium	**3700**		4.0	0.64	ug/L		08/13/24 14:45	08/14/24 17:06	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:45	08/14/24 17:06	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:45	08/14/24 17:06	1
Vanadium	**3.4**	**J**	5.0	2.2	ug/L		08/13/24 14:45	08/14/24 17:06	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:45	08/14/24 17:06	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**800**		0.91	0.46	mg/L		08/13/24 14:45	08/15/24 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**2.9**		1.0	0.18	mg/L			07/26/24 12:43	1
Nitrate as N (EPA 300.0)	**0.42**	**J H**	1.0	0.043	mg/L			07/26/24 12:43	1
Chloride (EPA 300.0)	**280**		20	2.3	mg/L			08/10/24 13:42	20
Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			07/26/24 12:43	1
Fluoride (EPA 300.0)	**0.27**	**J**	1.0	0.19	mg/L			07/26/24 12:43	1
Nitrate Nitrite as N (EPA 300.0)	**0.42**	**J H**	1.0	0.070	mg/L			07/26/24 12:43	1
Sulfate (EPA 300.0)	**14**		1.0	0.21	mg/L			07/26/24 12:43	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/06/24 10:01	08/06/24 14:56	1
Ammonia (EPA 350.1)	**0.36**		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:36	1
Phosphorus as P (EPA 365.1)	<0.024	^1- *- ^-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:46	1
Phosphorus as P (EPA 365.1)	**0.026**	**J H**	0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:11	1
Alkalinity (SM 2320B)	**760**		5.0	3.7	mg/L			08/06/24 19:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**760**		5.0	3.7	mg/L			08/06/24 19:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/06/24 19:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254108-1

Client Sample ID: NB2-1_20240724
Date Collected: 07/24/24 13:00
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254108-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Salinity (SM 2520B)	1.2		0.33	0.33	psu			07/29/24 15:20	1
Total Dissolved Solids (SM 2540C)	1300		10	4.3	mg/L			07/30/24 02:15	1
Total Suspended Solids (SM 2540D)	11		5.0	1.9	mg/L			07/31/24 17:50	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			07/31/24 22:32	1
Total Organic Carbon (SM 5310C)	4.9		1.0	0.47	mg/L			08/08/24 20:26	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	4.1		1.0	0.47	mg/L			07/29/24 02:15	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254108-1

Client Sample ID: NB2-1_20240724_FBLL
Date Collected: 07/24/24 13:00
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254108-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 18:44	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254108-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Dissolved	Water	1630	
500-254108-1	NB2-1_20240724	Total/NA	Water	1630	
MB 350-2490/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2490/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2490/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2490/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2490/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Prep Batch: 2494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Dissolved	Water	1638	
500-254108-1	NB2-1_20240724	Total Recoverable	Water	1638	
MB 350-2494/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2494/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2494/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2494/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Dissolved	Water	1631E	
500-254108-1	NB2-1_20240724	Total/NA	Water	1631E	
500-254108-2	NB2-1_20240724_FBLL	Total/NA	Water	1631E	
MB 350-2500/40	Method Blank	Total/NA	Water	1631E	
MB 350-2500/41	Method Blank	Total/NA	Water	1631E	
MB 350-2500/42	Method Blank	Total/NA	Water	1631E	
LCS 350-2500/43	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2500/44	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Dissolved	Water	1638	2494
500-254108-1	NB2-1_20240724	Total Recoverable	Water	1638	2494
MB 350-2494/1-A	Method Blank	Total Recoverable	Water	1638	2494
MB 350-2494/2-A	Method Blank	Total Recoverable	Water	1638	2494
LCS 350-2494/3-A	Lab Control Sample	Total Recoverable	Water	1638	2494
LCSD 350-2494/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2494

Analysis Batch: 2513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Dissolved	Water	1630	2490
500-254108-1	NB2-1_20240724	Total/NA	Water	1630	2490
MB 350-2490/1-A	Method Blank	Total/NA	Water	1630	2490
MB 350-2490/2-A	Method Blank	Total/NA	Water	1630	2490
MB 350-2490/3-A	Method Blank	Total/NA	Water	1630	2490
LCS 350-2490/4-A	Lab Control Sample	Total/NA	Water	1630	2490
LCSD 350-2490/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2490

Prep Batch: 781184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Dissolved	Water	3005A	
500-254108-1	NB2-1_20240724	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 781184 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-781184/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781184/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 781573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Dissolved	Water	6020B	781184
500-254108-1	NB2-1_20240724	Total Recoverable	Water	6020B	781184
MB 500-781184/1-A	Method Blank	Total Recoverable	Water	6020B	781184
LCS 500-781184/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781184

Analysis Batch: 781609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total Recoverable	Water	SM 2340B	781184

Analysis Batch: 781683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Dissolved	Water	6020B	781184
500-254108-1	NB2-1_20240724	Total Recoverable	Water	6020B	781184
MB 500-781184/1-A	Method Blank	Total Recoverable	Water	6020B	781184
LCS 500-781184/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781184

General Chemistry

Analysis Batch: 778596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	300.0	
MB 500-778596/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778596/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	300.0	
MB 500-778597/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778597/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Dissolved	Water	SM 5310C	
MB 500-778742/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-778742/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 778907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	SM 2540C	
MB 500-778907/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-778907/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 779349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	SM 2540D	
MB 500-779349/1	Method Blank	Total/NA	Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 779349 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-779349/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 779429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	SM 4500 S2 F	
MB 500-779429/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-779429/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 779504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	SM 2520B	

Prep Batch: 780072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	Distill/CN	
MB 500-780072/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780072/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	335.4	780072
MB 500-780072/1-A	Method Blank	Total/NA	Water	335.4	780072
LCS 500-780072/2-A	Lab Control Sample	Total/NA	Water	335.4	780072

Analysis Batch: 780255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	SM 2320B	
MB 500-780255/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-780255/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 780794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	300.0	
MB 500-780794/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780794/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	SM 5310C	
MB 500-780802/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-780802/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 780961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	365.2/365.3/365	
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Prep Batch: 781418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	Distill/Ammonia	

General Chemistry (Continued)

Prep Batch: 781418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-781418/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 781722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	365.1	780961
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.1	780961
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.1	780961

Analysis Batch: 781794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	350.1	781418
MB 500-781418/1-A	Method Blank	Total/NA	Water	350.1	781418
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	350.1	781418

Prep Batch: 782810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	365.2/365.3/365	
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 782997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254108-1	NB2-1_20240724	Total/NA	Water	365.1	782810
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.1	782810
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.1	782810

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2490/1-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:12	1

Lab Sample ID: MB 350-2490/2-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:22	1

Lab Sample ID: MB 350-2490/3-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:32	1

Lab Sample ID: LCS 350-2490/4-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.920		ng/L		92	65 - 135

Lab Sample ID: LCSD 350-2490/5-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2490

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	1.00		ng/L		100	65 - 135	8	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2500/40
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:16	1

Lab Sample ID: MB 350-2500/41
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:20	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2500/42
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 13:24	1

Lab Sample ID: LCS 350-2500/43
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.50		ng/L		90	77 - 123

Lab Sample ID: LCSD 350-2500/44
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.47		ng/L		89	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2494/1-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 13:34	1

Lab Sample ID: MB 350-2494/2-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 13:37	1

Lab Sample ID: LCS 350-2494/3-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	23.3		ug/L		93	85 - 115

Lab Sample ID: LCSD 350-2494/4-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	23.3		ug/L		93	85 - 115	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781184/1-A
Matrix: Water
Analysis Batch: 781573

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 14:45	08/14/24 16:18	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:18	1
Arsenic	<0.23		1.0	0.23	ug/L		08/13/24 14:45	08/14/24 16:18	1
Barium	<0.73		2.5	0.73	ug/L		08/13/24 14:45	08/14/24 16:18	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:45	08/14/24 16:18	1
Boron	68.7		50	13	ug/L		08/13/24 14:45	08/14/24 16:18	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:45	08/14/24 16:18	1
Calcium	<44		200	44	ug/L		08/13/24 14:45	08/14/24 16:18	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:45	08/14/24 16:18	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:45	08/14/24 16:18	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 14:45	08/14/24 16:18	1
Iron	<47		100	47	ug/L		08/13/24 14:45	08/14/24 16:18	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:45	08/14/24 16:18	1
Magnesium	<49		200	49	ug/L		08/13/24 14:45	08/14/24 16:18	1
Manganese	<0.79		2.5	0.79	ug/L		08/13/24 14:45	08/14/24 16:18	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 14:45	08/14/24 16:18	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:45	08/14/24 16:18	1
Potassium	<110		500	110	ug/L		08/13/24 14:45	08/14/24 16:18	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:45	08/14/24 16:18	1
Sodium	<77		200	77	ug/L		08/13/24 14:45	08/14/24 16:18	1
Strontium	<0.64		4.0	0.64	ug/L		08/13/24 14:45	08/14/24 16:18	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:45	08/14/24 16:18	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:45	08/14/24 16:18	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:45	08/14/24 16:18	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:45	08/14/24 16:18	1

Lab Sample ID: MB 500-781184/1-A
Matrix: Water
Analysis Batch: 781683

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<2.5		10	2.5	ug/L		08/13/24 14:45	08/15/24 11:04	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:45	08/15/24 11:04	1

Lab Sample ID: LCS 500-781184/2-A
Matrix: Water
Analysis Batch: 781573

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2010		ug/L		100	80 - 120
Antimony	500	511		ug/L		102	80 - 120
Arsenic	100	98.9		ug/L		99	80 - 120
Barium	500	505		ug/L		101	80 - 120
Beryllium	50.0	52.8		ug/L		106	80 - 120
Boron	1000	1050		ug/L		105	80 - 120
Cadmium	50.0	49.8		ug/L		100	80 - 120
Calcium	10000	8930		ug/L		89	80 - 120
Chromium	200	215		ug/L		108	80 - 120
Cobalt	500	547		ug/L		109	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781184/2-A
Matrix: Water
Analysis Batch: 781573

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	250	263		ug/L		105	80 - 120
Iron	1000	1070		ug/L		107	80 - 120
Lead	100	104		ug/L		104	80 - 120
Magnesium	10000	10800		ug/L		108	80 - 120
Manganese	500	529		ug/L		106	80 - 120
Molybdenum	1000	995		ug/L		99	80 - 120
Nickel	500	520		ug/L		104	80 - 120
Potassium	10000	10600		ug/L		106	80 - 120
Selenium	100	96.3		ug/L		96	80 - 120
Sodium	10000	10700		ug/L		107	80 - 120
Strontium	1000	990		ug/L		99	80 - 120
Thallium	100	106		ug/L		106	80 - 120
Tin	1000	1010		ug/L		101	80 - 120
Vanadium	500	523		ug/L		105	80 - 120
Zinc	500	500		ug/L		100	80 - 120

Lab Sample ID: LCS 500-781184/2-A
Matrix: Water
Analysis Batch: 781683

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	100	107		ug/L		107	80 - 120
Silver	50.0	50.1		ug/L		100	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-778596/3
Matrix: Water
Analysis Batch: 778596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			07/26/24 11:57	1
Fluoride	<0.19		1.0	0.19	mg/L			07/26/24 11:57	1
Sulfate	<0.21		1.0	0.21	mg/L			07/26/24 11:57	1

Lab Sample ID: LCS 500-778596/4
Matrix: Water
Analysis Batch: 778596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.9		mg/L		99	90 - 110
Fluoride	20.0	21.1		mg/L		105	90 - 110
Sulfate	20.0	21.5		mg/L		108	90 - 110

Lab Sample ID: MB 500-778597/3
Matrix: Water
Analysis Batch: 778597

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			07/26/24 11:57	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-778597/3
Matrix: Water
Analysis Batch: 778597

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	<0.070		1.0	0.070	mg/L			07/26/24 11:57	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			07/26/24 11:57	1

Lab Sample ID: LCS 500-778597/4
Matrix: Water
Analysis Batch: 778597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.4		mg/L		97	90 - 110
Nitrite as N	20.0	21.2		mg/L		106	90 - 110
Nitrate Nitrite as N	40.0	40.6		mg/L		101	90 - 110

Lab Sample ID: MB 500-780794/3
Matrix: Water
Analysis Batch: 780794

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/10/24 11:41	1

Lab Sample ID: LCS 500-780794/4
Matrix: Water
Analysis Batch: 780794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.2		mg/L		96	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780072/1-A
Matrix: Water
Analysis Batch: 780194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/06/24 10:01	08/06/24 14:02	1

Lab Sample ID: LCS 500-780072/2-A
Matrix: Water
Analysis Batch: 780194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0966		mg/L		97	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-781418/1-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:26	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 500-781418/2-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.97		mg/L		99	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780961/1-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^- ^1-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:36	1

Lab Sample ID: LCS 500-780961/2-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.367	^1- *- ^-	mg/L		73	88 - 123

Lab Sample ID: MB 500-782810/1-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:03	1

Lab Sample ID: LCS 500-782810/2-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.889		mg/L		89	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-780255/3
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 16:18	1

Lab Sample ID: LCS 500-780255/4
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	98.0		mg/L		98	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-778907/1
Matrix: Water
Analysis Batch: 778907

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			07/30/24 01:21	1

Lab Sample ID: LCS 500-778907/2
Matrix: Water
Analysis Batch: 778907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-779349/1
Matrix: Water
Analysis Batch: 779349

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			07/31/24 17:40	1

Lab Sample ID: LCS 500-779349/2
Matrix: Water
Analysis Batch: 779349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	185		mg/L		93	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-779429/1
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			07/31/24 22:15	1

Lab Sample ID: LCS 500-779429/2
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.42		mg/L		94	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-780802/7
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/08/24 12:59	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 500-780802/8
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-778742/7
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			07/28/24 18:19	1

Lab Sample ID: LCS 500-778742/8
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.3		mg/L		103	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254108-1

Client Sample ID: NB2-1_20240724

Date Collected: 07/24/24 13:00
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254108-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2490	AJD	EET SSM	08/01/24 10:43
Dissolved	Analysis	1630		1	2513	CL	EET SSM	08/02/24 17:36
Total/NA	Prep	1630			2490	AJD	EET SSM	08/01/24 10:43
Total/NA	Analysis	1630		1	2513	CL	EET SSM	08/02/24 17:26
Dissolved	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 18:31
Total/NA	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 18:27
Dissolved	Prep	1638			2494	COW	EET SSM	08/01/24 13:41
Dissolved	Analysis	1638		1	2503	COW	EET SSM	08/02/24 15:46
Total Recoverable	Prep	1638			2494	COW	EET SSM	08/01/24 13:41
Total Recoverable	Analysis	1638		1	2503	COW	EET SSM	08/02/24 15:35
Dissolved	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Dissolved	Analysis	6020B		1	781573	RN	EET CHI	08/14/24 17:06
Dissolved	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Dissolved	Analysis	6020B		1	781683	RN	EET CHI	08/15/24 11:41
Total Recoverable	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Total Recoverable	Analysis	6020B		1	781573	RN	EET CHI	08/14/24 17:08
Total Recoverable	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Total Recoverable	Analysis	6020B		1	781683	RN	EET CHI	08/15/24 11:44
Total Recoverable	Prep	3005A			781184	S1Z	EET CHI	08/13/24 14:45 - 08/13/24 20:45 [1]
Total Recoverable	Analysis	SM 2340B		1	781609	DAJ	EET CHI	08/15/24 09:56
Total/NA	Analysis	300.0		20	780794	W1T	EET CHI	08/10/24 13:42
Total/NA	Analysis	300.0		1	778596	W1T	EET CHI	07/26/24 12:43
Total/NA	Analysis	300.0		1	778597	W1T	EET CHI	07/26/24 12:43
Total/NA	Prep	Distill/CN			780072	AC	EET CHI	08/06/24 10:01 - 08/06/24 10:31 [1]
Total/NA	Analysis	335.4		1	780194	KF	EET CHI	08/06/24 14:56
Total/NA	Prep	Distill/Ammonia			781418	EB	EET CHI	08/14/24 15:14 - 08/14/24 16:14 [1]
Total/NA	Analysis	350.1		1	781794	KF	EET CHI	08/15/24 17:36
Total/NA	Prep	365.2/365.3/365			780961	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:40 [1]
Total/NA	Analysis	365.1		1	781722	LP	EET CHI	08/13/24 17:46
Total/NA	Prep	365.2/365.3/365			782810	ER	EET CHI	08/22/24 14:15 - 08/22/24 18:15 [1]
Total/NA	Analysis	365.1		1	782997	KF	EET CHI	08/23/24 12:11
Total/NA	Analysis	SM 2320B		1	780255	SO	EET CHI	08/06/24 19:34
Total/NA	Analysis	SM 2520B		1	779504	TR	EET CHI	07/29/24 15:20
Total/NA	Analysis	SM 2540C		1	778907	CLB	EET CHI	07/30/24 02:15
Total/NA	Analysis	SM 2540D		1	779349	SO	EET CHI	07/31/24 17:50 - 07/31/24 17:52 [1]
Total/NA	Analysis	SM 4500 S2 F		1	779429	CLB	EET CHI	07/31/24 22:32 - 07/31/24 22:35 [1]
Dissolved	Analysis	SM 5310C		1	778742	TR	EET CHI	07/29/24 02:15
Total/NA	Analysis	SM 5310C		1	780802	TR	EET CHI	08/08/24 20:26

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254108-1

Client Sample ID: NB2-1_20240724_FBLL

Date Collected: 07/24/24 13:00
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254108-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 18:44

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254108-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	08-07-24
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	08-07-24
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 2125	COC No: 500-126351-50241 31
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254108
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other: 500-254108 COC
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC SM5310 S	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, ~~300_GR_B~~ SM2520_B N	SM4500_S2_F - Sulfide, Total CB	335.4 - Cyanide, Total B	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) S	6020B, SM2340B Total Metals / Hardness D	1638 - Uranium only (ICP/MS) Total D	1631E - Mercury, Low Level (CVAFS) N	1630_ME - Methyl Mercury - Total A	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered) D	1638 - Dissolved Uranium only (field filtered) D	~~3500_CR_B - Dissolved Chromium, Hex (field filtered)~~ N	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered) N	Total Number of containers	Special Instructions/Note:
							Preservation Code:														
1 NB2-1_20240724	7.24.24	1300	G	Water			V	V	V	V	V	V	V	V	V	V	V	MS	V	18	
2 NB2-1_20240724-FBLL	7.24.24	1300	G	Water										V				MS		2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority OVERNIGHT

Relinquished by: Jacob Dean	Date/Time: 7/25/24 1200	Company: MSG	Received by:	Date/Time: 7/25/24 1200	Company: MSG		
Relinquished by:	Date/Time: 7/25/24 1600	Company: MSG	Received by: 4051 7962 2125	Date/Time: 7/25/24 1600	Company: FEDEX		
Relinquished by:	Date/Time	Company	Received by: Stephanie Hernandez	Date/Time: 7/26/24 0950	Company: EEIA		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.9 1.3

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 2125	COC No: 500-126351-50241 32
Client Contact: Amanda Zeidler	Phone: 616 826 8858	E Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254108
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB - ZnAcetate/NaOH; B - NaOH; D - HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
NB21_20240724	7-24-24	1300	G	Water			X	1	
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FEDEX PRIORITY overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	7/25/24 1200	MSG		7/25/24 1200	MSG
2		7/25/24 1600	MSG	4051 7962 2125	7/25/24 1600	FEDEX
3		Date/Time	Company	Stephanie Hemond	7/26/24 0950	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks.

JEO CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

CAD: 0780307/

TO **SAMPLE RECEIPT**
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200 REF
INV:
PO: DEPT:

RMA

FedEx Express

TRK# 0221 **4051 7962 2125**

RETURNS MON-SAT
PRIORITY OVERNIGHT

60484
IL-US

FedEx
TRK# 0221 **4051 7962 2125**

FRI - 26 JUL AA
PRIORITY OVERNIGHT

XP JOTA

60484
IL-US
ORD

3732349 25Jul2024 CMXA 581G9/E0E4/C0B8

500-254108 Waybi

48at

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254108-1

Login Number: 254108
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254108-1

Login Number: 254108
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 07/30/24 01:12 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254108 Field Sheet

Date:	7/30/2024
End Time:	1336
KI Paper Lot:	na
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	19628
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
500-254108-A-1	A	Y	.8 2	
500-254108-B-1	A	Y	.8 2	
500-254108-C-1	A	Y	.8 2	
500-254108-D-1	A	Y	.8 2	
500-254108-A-2	A	Y	.8 2	
500-254108-B-2	A	Y	.8 2	

7/30/24

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500-254108 Field Sheet

Date:	7/30/2024
End Time:	1350
pH Paper Lot:	HC324723
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254108-F-1	2	NA	NA	NA	NA
500-254108-E-1	2				

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/23/2024 4:41:52 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254109-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254109-1

Receipt
The samples were received on 07/26/24 09:50. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0º C.

Receipt Exceptions
Received three plastic 1 liter containers. One appears to be field filtered (other two are red/pink in color). No test requested require this container, please confirm. This container will be marked do not use.

Metals
Method 6020B: The method blank for preparation batch 500-781186 and analytical batch 500-781875 contained Boron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 365.1: ICV recovered low at 76% Recovery. Samples were reprepped out of hold. (ICV 500-781722/9)

Method 365.1: CCV failed low. Samples were reprepped out of hold. (CCV 500-780961/25-A)

Method 365.1: LCS failed low. Samples were reprepped out of hold. Data Confirmed initial analysis. (LCS 500-780961/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254109-1

Client Sample ID: MW-41_20240724

Lab Sample ID: 500-254109-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.52		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.42	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	8.5		0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	8.4		0.030	0.0098	ug/L	1		1638	Dissolved
Arsenic	0.42	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	84		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	1300	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	50000		200	44	ug/L	1		6020B	Total Recoverable
Copper	1.7	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	49	J	100	47	ug/L	1		6020B	Total Recoverable
Lithium	5.4	J	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	3500		200	49	ug/L	1		6020B	Total Recoverable
Manganese	28		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	19		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	1100		500	110	ug/L	1		6020B	Total Recoverable
Selenium	1.0	J	2.5	0.98	ug/L	1		6020B	Total Recoverable
Sodium	65000	B	200	77	ug/L	1		6020B	Total Recoverable
Strontium	830		4.0	0.64	ug/L	1		6020B	Total Recoverable
Aluminum	1900		100	25	ug/L	1		6020B	Dissolved
Arsenic	0.88	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	120		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	1500	B	50	13	ug/L	1		6020B	Dissolved
Calcium	50000		200	44	ug/L	1		6020B	Dissolved
Chromium	3.4	J	5.0	1.1	ug/L	1		6020B	Dissolved
Cobalt	1.3		1.0	0.40	ug/L	1		6020B	Dissolved
Copper	4.3		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	2000		100	47	ug/L	1		6020B	Dissolved
Lead	0.58		0.50	0.19	ug/L	1		6020B	Dissolved
Lithium	6.4	J	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	4500		200	49	ug/L	1		6020B	Dissolved
Manganese	62		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	31		5.0	2.5	ug/L	1		6020B	Dissolved
Nickel	2.7		2.0	0.63	ug/L	1		6020B	Dissolved
Potassium	1500		500	110	ug/L	1		6020B	Dissolved
Selenium	1.0	J	2.5	0.98	ug/L	1		6020B	Dissolved
Sodium	66000	B	200	77	ug/L	1		6020B	Dissolved
Strontium	850		4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	6.1		5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	140		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-41_20240724 (Continued) — Lab Sample ID: 500-254109-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromide	0.46	J	1.0	0.18	mg/L	1		300.0	Total/NA
Nitrate as N	0.83	J	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	51		5.0	0.58	mg/L	5		300.0	Total/NA
Fluoride	0.39	J	1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.83	J	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	48		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.32	^1- ^- *-	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	140		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	140		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	370		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	170		25	9.7	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.5		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	1.5		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-41_20240724_FBLL — Lab Sample ID: 500-254109-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254109-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254109-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254109-1	MW-41_20240724	Water	07/24/24 17:30	07/26/24 09:50
500-254109-2	MW-41_20240724_FBLL	Water	07/24/24 17:30	07/26/24 09:50

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254109-1

Client Sample ID: MW-41_20240724

Date Collected: 07/24/24 17:30
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254109-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 17:46	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 18:17	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.52**		0.50	0.20	ng/L			08/08/24 16:12	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.42**	**J**	0.50	0.20	ng/L			08/08/24 16:16	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**8.5**		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 15:49	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**8.4**		0.030	0.0098	ug/L		08/01/24 17:00	08/02/24 16:14	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 14:48	08/15/24 11:57	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:48	08/15/24 11:57	1
Arsenic	**0.42**	**J**	1.0	0.23	ug/L		08/13/24 14:48	08/15/24 11:57	1
Barium	**84**		2.5	0.73	ug/L		08/13/24 14:48	08/15/24 11:57	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:48	08/15/24 11:57	1
Boron	**1300**	**B**	50	13	ug/L		08/13/24 14:48	08/16/24 11:37	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:48	08/15/24 11:57	1
Calcium	**50000**		200	44	ug/L		08/13/24 14:48	08/15/24 11:57	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:48	08/15/24 11:57	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:48	08/15/24 11:57	1
Copper	**1.7**	**J**	2.0	0.50	ug/L		08/13/24 14:48	08/15/24 11:57	1
Iron	**49**	**J**	100	47	ug/L		08/13/24 14:48	08/15/24 11:57	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:48	08/15/24 11:57	1
Lithium	**5.4**	**J**	10	2.5	ug/L		08/13/24 14:48	08/15/24 11:57	1
Magnesium	**3500**		200	49	ug/L		08/13/24 14:48	08/15/24 11:57	1
Manganese	**28**		2.5	0.79	ug/L		08/13/24 14:48	08/15/24 11:57	1
Molybdenum	**19**		5.0	2.5	ug/L		08/13/24 14:48	08/15/24 11:57	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:48	08/15/24 11:57	1
Potassium	**1100**		500	110	ug/L		08/13/24 14:48	08/15/24 11:57	1
Selenium	**1.0**	**J**	2.5	0.98	ug/L		08/13/24 14:48	08/15/24 11:57	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:48	08/15/24 11:57	1
Sodium	**65000**	**B**	200	77	ug/L		08/13/24 14:48	08/15/24 11:57	1
Strontium	**830**		4.0	0.64	ug/L		08/13/24 14:48	08/15/24 11:57	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:48	08/15/24 11:57	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:48	08/15/24 11:57	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:48	08/15/24 11:57	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:48	08/15/24 11:57	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254109-1

Client Sample ID: MW-41_20240724

Date Collected: 07/24/24 17:30
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254109-1
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1900**		100	25	ug/L		08/13/24 14:48	08/15/24 12:09	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:48	08/15/24 12:09	1
Arsenic	**0.88**	**J**	1.0	0.23	ug/L		08/13/24 14:48	08/15/24 12:09	1
Barium	**120**		2.5	0.73	ug/L		08/13/24 14:48	08/15/24 12:09	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:48	08/15/24 12:09	1
Boron	**1500**	**B**	50	13	ug/L		08/13/24 14:48	08/16/24 11:53	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:48	08/15/24 12:09	1
Calcium	**50000**		200	44	ug/L		08/13/24 14:48	08/15/24 12:09	1
Chromium	**3.4**	**J**	5.0	1.1	ug/L		08/13/24 14:48	08/15/24 12:09	1
Cobalt	**1.3**		1.0	0.40	ug/L		08/13/24 14:48	08/15/24 12:09	1
Copper	**4.3**		2.0	0.50	ug/L		08/13/24 14:48	08/15/24 12:09	1
Iron	**2000**		100	47	ug/L		08/13/24 14:48	08/15/24 12:09	1
Lead	**0.58**		0.50	0.19	ug/L		08/13/24 14:48	08/15/24 12:09	1
Lithium	**6.4**	**J**	10	2.5	ug/L		08/13/24 14:48	08/15/24 12:09	1
Magnesium	**4500**		200	49	ug/L		08/13/24 14:48	08/15/24 12:09	1
Manganese	**62**		2.5	0.79	ug/L		08/13/24 14:48	08/15/24 12:09	1
Molybdenum	**31**		5.0	2.5	ug/L		08/13/24 14:48	08/15/24 12:09	1
Nickel	**2.7**		2.0	0.63	ug/L		08/13/24 14:48	08/15/24 12:09	1
Potassium	**1500**		500	110	ug/L		08/13/24 14:48	08/15/24 12:09	1
Selenium	**1.0**	**J**	2.5	0.98	ug/L		08/13/24 14:48	08/15/24 12:09	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:48	08/15/24 12:09	1
Sodium	**66000**	**B**	200	77	ug/L		08/13/24 14:48	08/15/24 12:09	1
Strontium	**850**		4.0	0.64	ug/L		08/13/24 14:48	08/15/24 12:09	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:48	08/15/24 12:09	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:48	08/15/24 12:09	1
Vanadium	**6.1**		5.0	2.2	ug/L		08/13/24 14:48	08/15/24 12:09	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:48	08/15/24 12:09	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**140**		0.91	0.46	mg/L		08/13/24 14:48	08/15/24 15:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.46**	**J**	1.0	0.18	mg/L			07/26/24 13:15	1
Nitrate as N (EPA 300.0)	**0.83**	**J**	1.0	0.043	mg/L			07/26/24 13:15	1
Chloride (EPA 300.0)	**51**		5.0	0.58	mg/L			08/10/24 13:57	5
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			07/26/24 13:15	1
Fluoride (EPA 300.0)	**0.39**	**J**	1.0	0.19	mg/L			07/26/24 13:15	1
Nitrate Nitrite as N (EPA 300.0)	**0.83**	**J**	1.0	0.070	mg/L			07/26/24 13:15	1
Sulfate (EPA 300.0)	**48**		1.0	0.21	mg/L			07/26/24 13:15	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/06/24 10:01	08/06/24 14:57	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:36	1
Phosphorus as P (EPA 365.1)	**0.32**	**^1- ^- *-**	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:46	1
Alkalinity (SM 2320B)	**140**		5.0	3.7	mg/L			08/06/24 19:57	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**140**		5.0	3.7	mg/L			08/06/24 19:57	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/06/24 19:57	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			07/29/24 15:28	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254109-1

Client Sample ID: MW-41_20240724
Date Collected: 07/24/24 17:30
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254109-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	370		10	4.3	mg/L			07/30/24 02:17	1
Total Suspended Solids (SM 2540D)	170		25	9.7	mg/L			07/31/24 17:52	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			07/31/24 22:35	1
Total Organic Carbon (SM 5310C)	1.5		1.0	0.47	mg/L			08/08/24 20:54	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	1.5		1.0	0.47	mg/L			07/29/24 02:43	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254109-1

Client Sample ID: MW-41_20240724_FBLL
Date Collected: 07/24/24 17:30
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254109-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 19:33	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254109-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Dissolved	Water	1630	
500-254109-1	MW-41_20240724	Total/NA	Water	1630	
MB 350-2490/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2490/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2490/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2490/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2490/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Prep Batch: 2494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total Recoverable	Water	1638	
MB 350-2494/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2494/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2494/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2494/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Prep Batch: 2495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Dissolved	Water	1638	
MB 350-2495/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2495/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2495/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2495/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-2	MW-41_20240724_FBLL	Total/NA	Water	1631E	
MB 350-2500/55	Method Blank	Total/NA	Water	1631E	
MB 350-2500/56	Method Blank	Total/NA	Water	1631E	
MB 350-2500/59	Method Blank	Total/NA	Water	1631E	
LCS 350-2500/60	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2500/61	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Dissolved	Water	1638	2495
500-254109-1	MW-41_20240724	Total Recoverable	Water	1638	2494
MB 350-2494/1-A	Method Blank	Total Recoverable	Water	1638	2494
MB 350-2494/2-A	Method Blank	Total Recoverable	Water	1638	2494
MB 350-2495/1-A	Method Blank	Total Recoverable	Water	1638	2495
MB 350-2495/2-A	Method Blank	Total Recoverable	Water	1638	2495
LCS 350-2494/3-A	Lab Control Sample	Total Recoverable	Water	1638	2494
LCS 350-2495/3-A	Lab Control Sample	Total Recoverable	Water	1638	2495
LCSD 350-2494/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2494
LCSD 350-2495/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2495

Analysis Batch: 2513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Dissolved	Water	1630	2490
500-254109-1	MW-41_20240724	Total/NA	Water	1630	2490
MB 350-2490/1-A	Method Blank	Total/NA	Water	1630	2490

Metals (Continued)

Analysis Batch: 2513 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 350-2490/2-A	Method Blank	Total/NA	Water	1630	2490
MB 350-2490/3-A	Method Blank	Total/NA	Water	1630	2490
LCS 350-2490/4-A	Lab Control Sample	Total/NA	Water	1630	2490
LCSD 350-2490/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2490

Analysis Batch: 2531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Dissolved	Water	1631E	
500-254109-1	MW-41_20240724	Total/NA	Water	1631E	
MB 350-2531/17	Method Blank	Total/NA	Water	1631E	
MB 350-2531/18	Method Blank	Total/NA	Water	1631E	
MB 350-2531/19	Method Blank	Total/NA	Water	1631E	
LCS 350-2531/28	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2531/29	Lab Control Sample Dup	Total/NA	Water	1631E	

Prep Batch: 781186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Dissolved	Water	3005A	
500-254109-1	MW-41_20240724	Total Recoverable	Water	3005A	
MB 500-781186/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781186/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-254109-1 MS	MW-41_20240724	Total Recoverable	Water	3005A	
500-254109-1 MSD	MW-41_20240724	Total Recoverable	Water	3005A	
500-254109-1 DU	MW-41_20240724	Total Recoverable	Water	3005A	

Analysis Batch: 781683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Dissolved	Water	6020B	781186
500-254109-1	MW-41_20240724	Total Recoverable	Water	6020B	781186
MB 500-781186/1-A	Method Blank	Total Recoverable	Water	6020B	781186
LCS 500-781186/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781186
500-254109-1 MS	MW-41_20240724	Total Recoverable	Water	6020B	781186
500-254109-1 MSD	MW-41_20240724	Total Recoverable	Water	6020B	781186
500-254109-1 DU	MW-41_20240724	Total Recoverable	Water	6020B	781186

Analysis Batch: 781703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total Recoverable	Water	SM 2340B	781186

Analysis Batch: 781875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Dissolved	Water	6020B	781186
500-254109-1	MW-41_20240724	Total Recoverable	Water	6020B	781186
MB 500-781186/1-A	Method Blank	Total Recoverable	Water	6020B	781186
LCS 500-781186/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781186
500-254109-1 MS	MW-41_20240724	Total Recoverable	Water	6020B	781186
500-254109-1 MSD	MW-41_20240724	Total Recoverable	Water	6020B	781186
500-254109-1 DU	MW-41_20240724	Total Recoverable	Water	6020B	781186

General Chemistry

Analysis Batch: 778596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total/NA	Water	300.0	
MB 500-778596/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778596/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total/NA	Water	300.0	
MB 500-778597/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778597/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Dissolved	Water	SM 5310C	
MB 500-778742/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-778742/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 778907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total/NA	Water	SM 2540C	
MB 500-778907/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-778907/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 779349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total/NA	Water	SM 2540D	
MB 500-779349/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-779349/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 779429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total/NA	Water	SM 4500 S2 F	
MB 500-779429/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-779429/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 779504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total/NA	Water	SM 2520B	

Prep Batch: 780072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total/NA	Water	Distill/CN	
MB 500-780072/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780072/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total/NA	Water	335.4	780072
MB 500-780072/1-A	Method Blank	Total/NA	Water	335.4	780072
LCS 500-780072/2-A	Lab Control Sample	Total/NA	Water	335.4	780072

General Chemistry

Analysis Batch: 780255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total/NA	Water	SM 2320B	
MB 500-780255/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-780255/29	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 780794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total/NA	Water	300.0	
MB 500-780794/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780794/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total/NA	Water	SM 5310C	
MB 500-780802/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-780802/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 780961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total/NA	Water	365.2/365.3/365	
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Prep Batch: 781418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total/NA	Water	Distill/Ammonia	
MB 500-781418/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 781722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total/NA	Water	365.1	780961
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.1	780961
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.1	780961

Analysis Batch: 781794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254109-1	MW-41_20240724	Total/NA	Water	350.1	781418
MB 500-781418/1-A	Method Blank	Total/NA	Water	350.1	781418
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	350.1	781418

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2490/1-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:12	1

Lab Sample ID: MB 350-2490/2-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:22	1

Lab Sample ID: MB 350-2490/3-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:32	1

Lab Sample ID: LCS 350-2490/4-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.920		ng/L		92	65 - 135

Lab Sample ID: LCSD 350-2490/5-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2490

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	1.00		ng/L		100	65 - 135	8	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2500/55
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 14:18	1

Lab Sample ID: MB 350-2500/56
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 14:22	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2500/59
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 14:35	1

Lab Sample ID: LCS 350-2500/60
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.51		ng/L		90	77 - 123

Lab Sample ID: LCSD 350-2500/61
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.55		ng/L		91	77 - 123	1	24

Lab Sample ID: MB 350-2531/17
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 13:47	1

Lab Sample ID: MB 350-2531/18
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 13:51	1

Lab Sample ID: MB 350-2531/19
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 13:55	1

Lab Sample ID: LCS 350-2531/28
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.74		ng/L		95	77 - 123

Lab Sample ID: LCSD 350-2531/29
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.80		ng/L		96	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2494/1-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 13:34	1

Lab Sample ID: MB 350-2494/2-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/01/24 13:41	08/02/24 13:37	1

Lab Sample ID: LCS 350-2494/3-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	23.3		ug/L		93	85 - 115

Lab Sample ID: LCSD 350-2494/4-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	23.3		ug/L		93	85 - 115	0	20

Lab Sample ID: MB 350-2495/1-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/01/24 17:00	08/02/24 13:41	1

Lab Sample ID: MB 350-2495/2-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/01/24 17:00	08/02/24 13:44	1

Lab Sample ID: LCS 350-2495/3-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	24.0		ug/L		96	85 - 115

Lab Sample ID: LCSD 350-2495/4-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2495

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.8		ug/L		91	85 - 115	5	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781186/1-A
Matrix: Water
Analysis Batch: 781683

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 14:48	08/15/24 11:53	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:48	08/15/24 11:53	1
Arsenic	<0.23		1.0	0.23	ug/L		08/13/24 14:48	08/15/24 11:53	1
Barium	<0.73		2.5	0.73	ug/L		08/13/24 14:48	08/15/24 11:53	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:48	08/15/24 11:53	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:48	08/15/24 11:53	1
Calcium	<44		200	44	ug/L		08/13/24 14:48	08/15/24 11:53	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:48	08/15/24 11:53	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:48	08/15/24 11:53	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 14:48	08/15/24 11:53	1
Iron	<47		100	47	ug/L		08/13/24 14:48	08/15/24 11:53	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:48	08/15/24 11:53	1
Lithium	<2.5		10	2.5	ug/L		08/13/24 14:48	08/15/24 11:53	1
Magnesium	<49		200	49	ug/L		08/13/24 14:48	08/15/24 11:53	1
Manganese	<0.79		2.5	0.79	ug/L		08/13/24 14:48	08/15/24 11:53	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 14:48	08/15/24 11:53	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:48	08/15/24 11:53	1
Potassium	<110		500	110	ug/L		08/13/24 14:48	08/15/24 11:53	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:48	08/15/24 11:53	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:48	08/15/24 11:53	1
Sodium	159	J	200	77	ug/L		08/13/24 14:48	08/15/24 11:53	1
Strontium	<0.64		4.0	0.64	ug/L		08/13/24 14:48	08/15/24 11:53	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:48	08/15/24 11:53	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:48	08/15/24 11:53	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:48	08/15/24 11:53	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:48	08/15/24 11:53	1

Lab Sample ID: MB 500-781186/1-A
Matrix: Water
Analysis Batch: 781875

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	57.6		50	13	ug/L		08/13/24 14:48	08/16/24 11:32	1

Lab Sample ID: LCS 500-781186/2-A
Matrix: Water
Analysis Batch: 781683

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1860		ug/L		93	80 - 120
Antimony	500	467		ug/L		93	80 - 120
Arsenic	100	91.8		ug/L		92	80 - 120
Barium	500	480		ug/L		96	80 - 120
Beryllium	50.0	46.8		ug/L		94	80 - 120
Cadmium	50.0	46.7		ug/L		93	80 - 120
Calcium	10000	8480		ug/L		85	80 - 120
Chromium	200	197		ug/L		98	80 - 120
Cobalt	500	478		ug/L		96	80 - 120
Copper	250	239		ug/L		96	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781186/2-A
Matrix: Water
Analysis Batch: 781683

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1000	991		ug/L		99	80 - 120
Lead	100	95.7		ug/L		96	80 - 120
Lithium	100	97.8		ug/L		98	80 - 120
Magnesium	10000	9770		ug/L		98	80 - 120
Manganese	500	492		ug/L		98	80 - 120
Molybdenum	1000	913		ug/L		91	80 - 120
Nickel	500	481		ug/L		96	80 - 120
Potassium	10000	9920		ug/L		99	80 - 120
Selenium	100	93.2		ug/L		93	80 - 120
Silver	50.0	46.7		ug/L		93	80 - 120
Sodium	10000	9820		ug/L		98	80 - 120
Strontium	1000	926		ug/L		93	80 - 120
Thallium	100	99.4		ug/L		99	80 - 120
Tin	1000	929		ug/L		93	80 - 120
Vanadium	500	483		ug/L		97	80 - 120
Zinc	500	461		ug/L		92	80 - 120

Lab Sample ID: LCS 500-781186/2-A
Matrix: Water
Analysis Batch: 781875

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	1070		ug/L		107	80 - 120

Lab Sample ID: 500-254109-1 MS
Matrix: Water
Analysis Batch: 781683

Client Sample ID: MW-41_20240724
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	<25		2000	1960		ug/L		98	75 - 125
Antimony	<1.3		500	504		ug/L		101	75 - 125
Arsenic	0.42	J	100	101		ug/L		100	75 - 125
Barium	84		500	608		ug/L		105	75 - 125
Beryllium	<0.53		50.0	49.4		ug/L		99	75 - 125
Cadmium	<0.17		50.0	49.7		ug/L		99	75 - 125
Calcium	50000		10000	56900	4	ug/L		74	75 - 125
Chromium	<1.1		200	206		ug/L		103	75 - 125
Cobalt	<0.40		500	513		ug/L		103	75 - 125
Copper	1.7	J	250	256		ug/L		102	75 - 125
Iron	49	J	1000	1060		ug/L		101	75 - 125
Lead	<0.19		100	102		ug/L		102	75 - 125
Lithium	5.4	J	100	107		ug/L		102	75 - 125
Magnesium	3500		10000	13400		ug/L		99	75 - 125
Manganese	28		500	538		ug/L		102	75 - 125
Molybdenum	19		1000	1010		ug/L		99	75 - 125
Nickel	<0.63		500	507		ug/L		101	75 - 125
Potassium	1100		10000	11200		ug/L		101	75 - 125
Selenium	1.0	J	100	102		ug/L		101	75 - 125
Silver	<0.12		50.0	48.9		ug/L		98	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254109-1 MS
Matrix: Water
Analysis Batch: 781683

Client Sample ID: MW-41_20240724
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	65000	B	10000	72600	4	ug/L		72	75 - 125
Strontium	830		1000	1770		ug/L		94	75 - 125
Thallium	<0.57		100	103		ug/L		103	75 - 125
Tin	<1.3		1000	995		ug/L		100	75 - 125
Vanadium	<2.2		500	509		ug/L		102	75 - 125
Zinc	<6.9		500	499		ug/L		100	75 - 125

Lab Sample ID: 500-254109-1 MS
Matrix: Water
Analysis Batch: 781875

Client Sample ID: MW-41_20240724
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1300	B	1000	2400		ug/L		107	75 - 125

Lab Sample ID: 500-254109-1 MSD
Matrix: Water
Analysis Batch: 781683

Client Sample ID: MW-41_20240724
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	<25		2000	1960		ug/L		98	75 - 125	0	20
Antimony	<1.3		500	504		ug/L		101	75 - 125	0	20
Arsenic	0.42	J	100	100		ug/L		100	75 - 125	1	20
Barium	84		500	611		ug/L		105	75 - 125	0	20
Beryllium	<0.53		50.0	49.6		ug/L		99	75 - 125	0	20
Cadmium	<0.17		50.0	49.8		ug/L		100	75 - 125	0	20
Calcium	50000		10000	57600	4	ug/L		80	75 - 125	1	20
Chromium	<1.1		200	208		ug/L		104	75 - 125	1	20
Cobalt	<0.40		500	513		ug/L		103	75 - 125	0	20
Copper	1.7	J	250	257		ug/L		102	75 - 125	0	20
Iron	49	J	1000	1060		ug/L		102	75 - 125	0	20
Lead	<0.19		100	101		ug/L		101	75 - 125	1	20
Lithium	5.4	J	100	109		ug/L		103	75 - 125	1	20
Magnesium	3500		10000	13400		ug/L		99	75 - 125	1	20
Manganese	28		500	547		ug/L		104	75 - 125	2	20
Molybdenum	19		1000	1000		ug/L		98	75 - 125	0	20
Nickel	<0.63		500	511		ug/L		102	75 - 125	1	20
Potassium	1100		10000	11300		ug/L		102	75 - 125	1	20
Selenium	1.0	J	100	100		ug/L		99	75 - 125	1	20
Silver	<0.12		50.0	48.5		ug/L		97	75 - 125	1	20
Sodium	65000	B	10000	73500	4	ug/L		81	75 - 125	1	20
Strontium	830		1000	1780		ug/L		94	75 - 125	0	20
Thallium	<0.57		100	105		ug/L		105	75 - 125	1	20
Tin	<1.3		1000	993		ug/L		99	75 - 125	0	20
Vanadium	<2.2		500	513		ug/L		103	75 - 125	1	20
Zinc	<6.9		500	498		ug/L		100	75 - 125	0	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254109-1 MSD
Matrix: Water
Analysis Batch: 781875

Client Sample ID: MW-41_20240724
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1300	B	1000	2450		ug/L		112	75 - 125	2	20

Lab Sample ID: 500-254109-1 DU
Matrix: Water
Analysis Batch: 781683

Client Sample ID: MW-41_20240724
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	<25		<25		ug/L		NC	20
Antimony	<1.3		<1.3		ug/L		NC	20
Arsenic	0.42	J	0.402	J	ug/L		5	20
Barium	84		84.3		ug/L		0.08	20
Beryllium	<0.53		<0.53		ug/L		NC	20
Cadmium	<0.17		<0.17		ug/L		NC	20
Calcium	50000		47400		ug/L		4	20
Chromium	<1.1		<1.1		ug/L		NC	20
Cobalt	<0.40		<0.40		ug/L		NC	20
Copper	1.7	J	1.53	J	ug/L		8	20
Iron	49	J	49.2	J	ug/L		0.8	20
Lead	<0.19		<0.19		ug/L		NC	20
Lithium	5.4	J	5.49	J	ug/L		2	20
Magnesium	3500		3420		ug/L		2	20
Manganese	28		26.4		ug/L		4	20
Molybdenum	19		18.3		ug/L		4	20
Nickel	<0.63		<0.63		ug/L		NC	20
Potassium	1100		1040		ug/L		5	20
Selenium	1.0	J	<0.98		ug/L		NC	20
Silver	<0.12		<0.12		ug/L		NC	20
Sodium	65000	B	63000		ug/L		4	20
Strontium	830		803		ug/L		3	20
Thallium	<0.57		<0.57		ug/L		NC	20
Tin	<1.3		<1.3		ug/L		NC	20
Vanadium	<2.2		<2.2		ug/L		NC	20
Zinc	<6.9		<6.9		ug/L		NC	20

Lab Sample ID: 500-254109-1 DU
Matrix: Water
Analysis Batch: 781875

Client Sample ID: MW-41_20240724
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	1300	B	1340		ug/L		1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-778596/3
Matrix: Water
Analysis Batch: 778596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			07/26/24 11:57	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-778596/3
Matrix: Water
Analysis Batch: 778596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.19		1.0	0.19	mg/L			07/26/24 11:57	1
Sulfate	<0.21		1.0	0.21	mg/L			07/26/24 11:57	1

Lab Sample ID: LCS 500-778596/4
Matrix: Water
Analysis Batch: 778596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.9		mg/L		99	90 - 110
Fluoride	20.0	21.1		mg/L		105	90 - 110
Sulfate	20.0	21.5		mg/L		108	90 - 110

Lab Sample ID: MB 500-778597/3
Matrix: Water
Analysis Batch: 778597

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			07/26/24 11:57	1
Nitrite as N	<0.070		1.0	0.070	mg/L			07/26/24 11:57	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			07/26/24 11:57	1

Lab Sample ID: LCS 500-778597/4
Matrix: Water
Analysis Batch: 778597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.4		mg/L		97	90 - 110
Nitrite as N	20.0	21.2		mg/L		106	90 - 110
Nitrate Nitrite as N	40.0	40.6		mg/L		101	90 - 110

Lab Sample ID: MB 500-780794/3
Matrix: Water
Analysis Batch: 780794

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/10/24 11:41	1

Lab Sample ID: LCS 500-780794/4
Matrix: Water
Analysis Batch: 780794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.2		mg/L		96	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780072/1-A
Matrix: Water
Analysis Batch: 780194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/06/24 10:01	08/06/24 14:02	1

Lab Sample ID: LCS 500-780072/2-A
Matrix: Water
Analysis Batch: 780194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0966		mg/L		97	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-781418/1-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:26	1

Lab Sample ID: LCS 500-781418/2-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.97		mg/L		99	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780961/1-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^- ^1-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:36	1

Lab Sample ID: LCS 500-780961/2-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.367	^1- *- ^-	mg/L		73	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-780255/28
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/06/24 19:45	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 19:45	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 19:45	1

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 500-780255/29
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	106		mg/L		106	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-778907/1
Matrix: Water
Analysis Batch: 778907

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			07/30/24 01:21	1

Lab Sample ID: LCS 500-778907/2
Matrix: Water
Analysis Batch: 778907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-779349/1
Matrix: Water
Analysis Batch: 779349

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			07/31/24 17:40	1

Lab Sample ID: LCS 500-779349/2
Matrix: Water
Analysis Batch: 779349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	185		mg/L		93	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-779429/1
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			07/31/24 22:15	1

Lab Sample ID: LCS 500-779429/2
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.42		mg/L		94	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-780802/7
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/08/24 12:59	1

Lab Sample ID: LCS 500-780802/8
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-778742/7
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			07/28/24 18:19	1

Lab Sample ID: LCS 500-778742/8
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.3		mg/L		103	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254109-1

Client Sample ID: MW-41_20240724

Lab Sample ID: 500-254109-1

Date Collected: 07/24/24 17:30

Matrix: Water

Date Received: 07/26/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2490	AJD	EET SSM	08/01/24 10:43
Dissolved	Analysis	1630		1	2513	CL	EET SSM	08/02/24 18:17
Total/NA	Prep	1630			2490	AJD	EET SSM	08/01/24 10:43
Total/NA	Analysis	1630		1	2513	CL	EET SSM	08/02/24 17:46
Dissolved	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 16:16
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 16:12
Dissolved	Prep	1638			2495	COW	EET SSM	08/01/24 17:00
Dissolved	Analysis	1638		1	2503	COW	EET SSM	08/02/24 16:14
Total Recoverable	Prep	1638			2494	COW	EET SSM	08/01/24 13:41
Total Recoverable	Analysis	1638		1	2503	COW	EET SSM	08/02/24 15:49
Dissolved	Prep	3005A			781186	S1Z	EET CHI	08/13/24 14:48 - 08/13/24 20:48 [1]
Dissolved	Analysis	6020B		1	781683	RN	EET CHI	08/15/24 12:09
Dissolved	Prep	3005A			781186	S1Z	EET CHI	08/13/24 14:48 - 08/13/24 20:48 [1]
Dissolved	Analysis	6020B		1	781875	RN	EET CHI	08/16/24 11:53
Total Recoverable	Prep	3005A			781186	S1Z	EET CHI	08/13/24 14:48 - 08/13/24 20:48 [1]
Total Recoverable	Analysis	6020B		1	781683	RN	EET CHI	08/15/24 11:57
Total Recoverable	Prep	3005A			781186	S1Z	EET CHI	08/13/24 14:48 - 08/13/24 20:48 [1]
Total Recoverable	Analysis	6020B		1	781875	RN	EET CHI	08/16/24 11:37
Total Recoverable	Prep	3005A			781186	S1Z	EET CHI	08/13/24 14:48 - 08/13/24 20:48 [1]
Total Recoverable	Analysis	SM 2340B		1	781703	DAJ	EET CHI	08/15/24 15:36
Total/NA	Analysis	300.0		5	780794	W1T	EET CHI	08/10/24 13:57
Total/NA	Analysis	300.0		1	778596	W1T	EET CHI	07/26/24 13:15
Total/NA	Analysis	300.0		1	778597	W1T	EET CHI	07/26/24 13:15
Total/NA	Prep	Distill/CN			780072	AC	EET CHI	08/06/24 10:01 - 08/06/24 10:31 [1]
Total/NA	Analysis	335.4		1	780194	KF	EET CHI	08/06/24 14:57
Total/NA	Prep	Distill/Ammonia			781418	EB	EET CHI	08/14/24 15:14 - 08/14/24 16:14 [1]
Total/NA	Analysis	350.1		1	781794	KF	EET CHI	08/15/24 17:36
Total/NA	Prep	365.2/365.3/365			780961	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:40 [1]
Total/NA	Analysis	365.1		1	781722	LP	EET CHI	08/13/24 17:46
Total/NA	Analysis	SM 2320B		1	780255	SO	EET CHI	08/06/24 19:57
Total/NA	Analysis	SM 2520B		1	779504	TR	EET CHI	07/29/24 15:28
Total/NA	Analysis	SM 2540C		1	778907	CLB	EET CHI	07/30/24 02:17
Total/NA	Analysis	SM 2540D		1	779349	SO	EET CHI	07/31/24 17:52 - 07/31/24 17:54 [1]
Total/NA	Analysis	SM 4500 S2 F		1	779429	CLB	EET CHI	07/31/24 22:35 - 07/31/24 22:39 [1]
Dissolved	Analysis	SM 5310C		1	778742	TR	EET CHI	07/29/24 02:43
Total/NA	Analysis	SM 5310C		1	780802	TR	EET CHI	08/08/24 20:54

Client Sample ID: MW-41_20240724_FBLL

Lab Sample ID: 500-254109-2

Date Collected: 07/24/24 17:30

Matrix: Water

Date Received: 07/26/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 19:33

Lab Chronicle

Client: White Pine Copper LLC
Job ID: 500-254109-1
Project/Site: White Pines, MI

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254109-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 2158	COC No: 500-126351-50241 45
Client Contact: Amanda Zeidler	Phone: 616 513 2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254109
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

Other: 500-254109 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC SM5310	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, ~~3500_CR_B~~, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	~~3500_CR_B - Dissolved Chromium, Hex (field filtered)~~	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
	Preservation Code:							S	N	CB	B	S	D	D	N	A	D	D	N	N		
1	MW-41_2024 0724	7.24.24	17:30	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	18	
2	MW-41_2024 0724_ FBLL	7.24.24	17:30	G	Water										X				MS/MSD		2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: fedex priority overnight

Relinquished by: Jacob Dean	Date/Time: 7/25/24 1200	Company: MSG	Received by:	Date/Time: 7/25/24 1200	Company: MSG
Relinquished by:	Date/Time: 7/25/24 1600	Company: MSG	Received by: 4051 79622158	Date/Time: 7/25/24 1600	Company: fedex
Relinquished by:	Date/Time:	Company:	Received by: Stephanie Hernandez	Date/Time: 7/26/24 0850	Company: ETA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.1 / 1.0

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 2158	COC No: 500-126351-50241 46
Client Contact: Amanda Zeidler	Phone: 616 513 2249	E Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-754109
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A - HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
1 MW-41_20240724	7-24-24	17:30	G	Water			X	1	
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	7/25/24 1200	MSG		7/25/24 1200	MSG
2		7/25/24 1600	MSG	4051 7962 2158	7/25/24 1600	fedex
3				Stephanie Hermanoff	7/26/24 0050	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks


JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808

Part # 158469-494 MTW EXP 01/25

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484

(708) 534-5200 REF:
INV:
PO: DEPT:

RMA:

FedEx Express

TRK# 0221 4051 7962 2158

RETURNS MON-SAT
PRIORITY OVERNIGHT

FRI - 26 JUL AA
PRIORITY OVERNIGHT

FedEx
TRK# 0221 4051 7962 2158

XP JOTA

60484
IL-US
ORD

3732345 253u12024 CMXA 581G9/E0E4/C0B8



500-254109 Waybi

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-190991.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-254109-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/15/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: White Pines, MI	Project #: 50023455			
Site	SSOW#			

Analysis Requested

Preservation Codes: -

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-41_20240724 (500-254109-1)	7/24/24	17:30 Eastern		Water			X	X	X	X	X	X	8	
MW-41_20240724_FBLL (500-254109-2)	7/24/24	17:30 Eastern		Water				X					2	

Med Blue

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp 2.0 / 2.0 °C
Delivery: UPS / FedEx / Other
Ice Type: (Blue) / Dry / Wet / None
Label Ver. 12 Packing: YS

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwar accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to a immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification: Unconfirmed 7051 7620 4617	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	7/29/24 0830		[signature]	7/31/24 9:45	EPLS
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254109-1

Login Number: 254109
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254109-1

Login Number: 254109
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 07/31/24 02:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254109 Field Sheet

Date:	7/31/2024
End Time:	15:04
pH Paper Lot:	HC234723
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254109-F-1	≤2				
500-254109-E-1	≤2				
500-254109-K-1	≤2				
500-254109-J-1	≤2				

7/31/24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/23/2024 4:43:17 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254110-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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Authorized for release by
Sandie Fredrick, Senior Project Manager
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Job Narrative
500-254110-1

Receipt
The samples were received on 07/26/24 09:50. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.7º C.

Metals
Method 6020B: The method blank for preparation batch 500-781186 and analytical batch 500-781875 contained Boron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 365.1: ICV recovered low at 76% Recovery. Samples were reprepped out of hold. (ICV 500-781722/9)

Method 365.1: CCV failed low. Samples were reprepped out of hold. (CCV 500-780961/25-A)

Method 365.1: Reanalysis of the following sample was performed outside of the analytical holding time due to QC failure during initial analysis. : NB2-3_20240724 (500-254110-1).Both sets of data are being reported.

Method 365.1: LCS failed low. Samples were reprepped out of hold. Both sets of data are reported. (LCS 500-780961/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254110-1

Client Sample ID: NB2-3_20240724

Lab Sample ID: 500-254110-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.24	J	0.50	0.20	ng/L	1		1631E	Total/NA
Uranium	0.027	J	0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.028	J	0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	33	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	6.0		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	380		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	2100	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	45000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	0.76	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	3.9		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	7100		100	47	ug/L	1		6020B	Total Recoverable
Lithium	15		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	6800		200	49	ug/L	1		6020B	Total Recoverable
Manganese	640		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	50		5.0	2.5	ug/L	1		6020B	Total Recoverable
Nickel	1.0	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	10000		500	110	ug/L	1		6020B	Total Recoverable
Sodium	200000	B	200	77	ug/L	1		6020B	Total Recoverable
Strontium	550		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	6.3		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	440		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	2200	B	50	13	ug/L	1		6020B	Dissolved
Calcium	51000		200	44	ug/L	1		6020B	Dissolved
Cobalt	0.84	J	1.0	0.40	ug/L	1		6020B	Dissolved
Iron	7900		100	47	ug/L	1		6020B	Dissolved
Lithium	16		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	7700		200	49	ug/L	1		6020B	Dissolved
Manganese	730		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	52		5.0	2.5	ug/L	1		6020B	Dissolved
Nickel	1.1	J	2.0	0.63	ug/L	1		6020B	Dissolved
Potassium	11000		500	110	ug/L	1		6020B	Dissolved
Sodium	210000	B	200	77	ug/L	1		6020B	Dissolved
Strontium	630		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	140		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	1.9		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	180		10	1.2	mg/L	10		300.0	Total/NA
Fluoride	0.31	J	1.0	0.19	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NB2-3_20240724 (Continued) — Lab Sample ID: 500-254110-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.54		0.20	0.10	mg/L	1		350.1	Total/NA
Phosphorus as P	0.098	^1- *- ^-	0.050	0.024	mg/L	1		365.1	Total/NA
Phosphorus as P	0.16	H	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	270		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	270		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.40		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	660		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	8.5		6.3	2.4	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	7.0		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	6.2		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: NB2-3_20240724_FBLL — Lab Sample ID: 500-254110-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254110-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254110-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254110-1	NB2-3_20240724	Water	07/24/24 14:20	07/26/24 09:50
500-254110-2	NB2-3_20240724_FBLL	Water	07/24/24 14:20	07/26/24 09:50

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254110-1

Client Sample ID: NB2-3_20240724

Date Collected: 07/24/24 14:20
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254110-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 18:27	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 18:37	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.24**	**J**	0.50	0.20	ng/L			08/02/24 19:37	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 19:42	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.027**	**J**	0.030	0.0098	ug/L		08/01/24 17:00	08/02/24 15:53	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.028**	**J**	0.030	0.0098	ug/L		08/01/24 17:00	08/02/24 16:18	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**33**	**J**	100	25	ug/L		08/13/24 14:48	08/15/24 12:11	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:48	08/15/24 12:11	1
Arsenic	**6.0**		1.0	0.23	ug/L		08/13/24 14:48	08/15/24 12:11	1
Barium	**380**		2.5	0.73	ug/L		08/13/24 14:48	08/15/24 12:11	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:48	08/15/24 12:11	1
Boron	**2100**	**B**	50	13	ug/L		08/13/24 14:48	08/16/24 11:55	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:48	08/15/24 12:11	1
Calcium	**45000**		200	44	ug/L		08/13/24 14:48	08/15/24 12:11	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:48	08/15/24 12:11	1
Cobalt	**0.76**	**J**	1.0	0.40	ug/L		08/13/24 14:48	08/15/24 12:11	1
Copper	**3.9**		2.0	0.50	ug/L		08/13/24 14:48	08/15/24 12:11	1
Iron	**7100**		100	47	ug/L		08/13/24 14:48	08/15/24 12:11	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:48	08/15/24 12:11	1
Lithium	**15**		10	2.5	ug/L		08/13/24 14:48	08/15/24 12:11	1
Magnesium	**6800**		200	49	ug/L		08/13/24 14:48	08/15/24 12:11	1
Manganese	**640**		2.5	0.79	ug/L		08/13/24 14:48	08/15/24 12:11	1
Molybdenum	**50**		5.0	2.5	ug/L		08/13/24 14:48	08/15/24 12:11	1
Nickel	**1.0**	**J**	2.0	0.63	ug/L		08/13/24 14:48	08/15/24 12:11	1
Potassium	**10000**		500	110	ug/L		08/13/24 14:48	08/15/24 12:11	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:48	08/15/24 12:11	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:48	08/15/24 12:11	1
Sodium	**200000**	**B**	200	77	ug/L		08/13/24 14:48	08/15/24 12:11	1
Strontium	**550**		4.0	0.64	ug/L		08/13/24 14:48	08/15/24 12:11	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:48	08/15/24 12:11	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:48	08/15/24 12:11	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:48	08/15/24 12:11	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:48	08/15/24 12:11	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254110-1

Client Sample ID: NB2-3_20240724

Date Collected: 07/24/24 14:20
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254110-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 14:48	08/15/24 12:13	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:48	08/15/24 12:13	1
Arsenic	**6.3**		1.0	0.23	ug/L		08/13/24 14:48	08/15/24 12:13	1
Barium	**440**		2.5	0.73	ug/L		08/13/24 14:48	08/15/24 12:13	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:48	08/15/24 12:13	1
Boron	**2200**	**B**	50	13	ug/L		08/13/24 14:48	08/16/24 11:57	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:48	08/15/24 12:13	1
Calcium	**51000**		200	44	ug/L		08/13/24 14:48	08/15/24 12:13	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:48	08/15/24 12:13	1
Cobalt	**0.84**	**J**	1.0	0.40	ug/L		08/13/24 14:48	08/15/24 12:13	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 14:48	08/15/24 12:13	1
Iron	**7900**		100	47	ug/L		08/13/24 14:48	08/15/24 12:13	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:48	08/15/24 12:13	1
Lithium	**16**		10	2.5	ug/L		08/13/24 14:48	08/15/24 12:13	1
Magnesium	**7700**		200	49	ug/L		08/13/24 14:48	08/15/24 12:13	1
Manganese	**730**		2.5	0.79	ug/L		08/13/24 14:48	08/15/24 12:13	1
Molybdenum	**52**		5.0	2.5	ug/L		08/13/24 14:48	08/15/24 12:13	1
Nickel	**1.1**	**J**	2.0	0.63	ug/L		08/13/24 14:48	08/15/24 12:13	1
Potassium	**11000**		500	110	ug/L		08/13/24 14:48	08/15/24 12:13	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:48	08/15/24 12:13	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:48	08/15/24 12:13	1
Sodium	**210000**	**B**	200	77	ug/L		08/13/24 14:48	08/15/24 12:13	1
Strontium	**630**		4.0	0.64	ug/L		08/13/24 14:48	08/15/24 12:13	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:48	08/15/24 12:13	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:48	08/15/24 12:13	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:48	08/15/24 12:13	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:48	08/15/24 12:13	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**140**		0.91	0.46	mg/L		08/13/24 14:48	08/15/24 15:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**1.9**		1.0	0.18	mg/L			07/26/24 12:28	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			07/26/24 12:28	1
Chloride (EPA 300.0)	**180**		10	1.2	mg/L			08/10/24 14:43	10
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			07/26/24 12:28	1
Fluoride (EPA 300.0)	**0.31**	**J**	1.0	0.19	mg/L			07/26/24 12:28	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			07/26/24 12:28	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			07/26/24 12:28	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/06/24 10:01	08/06/24 14:59	1
Ammonia (EPA 350.1)	**0.54**		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:36	1
Phosphorus as P (EPA 365.1)	**0.098**	**^1- *- ^-**	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:47	1
Phosphorus as P (EPA 365.1)	**0.16**	**H**	0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:13	1
Alkalinity (SM 2320B)	**270**		5.0	3.7	mg/L			08/06/24 20:07	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**270**		5.0	3.7	mg/L			08/06/24 20:07	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/06/24 20:07	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254110-1

Client Sample ID: NB2-3_20240724
Date Collected: 07/24/24 14:20
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254110-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Salinity (SM 2520B)	0.40		0.33	0.33	psu			07/29/24 15:19	1
Total Dissolved Solids (SM 2540C)	660		10	4.3	mg/L			07/30/24 02:20	1
Total Suspended Solids (SM 2540D)	8.5		6.3	2.4	mg/L			07/31/24 17:54	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			07/31/24 22:39	1
Total Organic Carbon (SM 5310C)	7.0		1.0	0.47	mg/L			08/08/24 21:22	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	6.2		1.0	0.47	mg/L			07/29/24 03:11	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254110-1

Client Sample ID: NB2-3_20240724_FBLL
Date Collected: 07/24/24 14:20
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254110-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 19:46	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254110-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Dissolved	Water	1630	
500-254110-1	NB2-3_20240724	Total/NA	Water	1630	
MB 350-2490/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2490/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2490/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2490/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2490/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Prep Batch: 2495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Dissolved	Water	1638	
500-254110-1	NB2-3_20240724	Total Recoverable	Water	1638	
MB 350-2495/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2495/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2495/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2495/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-254110-1 MS	NB2-3_20240724	Total Recoverable	Water	1638	
500-254110-1 MSD	NB2-3_20240724	Total Recoverable	Water	1638	

Analysis Batch: 2500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Dissolved	Water	1631E	
500-254110-1	NB2-3_20240724	Total/NA	Water	1631E	
500-254110-2	NB2-3_20240724_FBLL	Total/NA	Water	1631E	
MB 350-2500/55	Method Blank	Total/NA	Water	1631E	
MB 350-2500/56	Method Blank	Total/NA	Water	1631E	
MB 350-2500/59	Method Blank	Total/NA	Water	1631E	
LCS 350-2500/60	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2500/61	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Dissolved	Water	1638	2495
500-254110-1	NB2-3_20240724	Total Recoverable	Water	1638	2495
MB 350-2495/1-A	Method Blank	Total Recoverable	Water	1638	2495
MB 350-2495/2-A	Method Blank	Total Recoverable	Water	1638	2495
LCS 350-2495/3-A	Lab Control Sample	Total Recoverable	Water	1638	2495
LCSD 350-2495/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2495
500-254110-1 MS	NB2-3_20240724	Total Recoverable	Water	1638	2495
500-254110-1 MSD	NB2-3_20240724	Total Recoverable	Water	1638	2495

Analysis Batch: 2513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Dissolved	Water	1630	2490
500-254110-1	NB2-3_20240724	Total/NA	Water	1630	2490
MB 350-2490/1-A	Method Blank	Total/NA	Water	1630	2490
MB 350-2490/2-A	Method Blank	Total/NA	Water	1630	2490
MB 350-2490/3-A	Method Blank	Total/NA	Water	1630	2490
LCS 350-2490/4-A	Lab Control Sample	Total/NA	Water	1630	2490
LCSD 350-2490/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2490

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254110-1

Metals

Prep Batch: 781186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Dissolved	Water	3005A	
500-254110-1	NB2-3_20240724	Total Recoverable	Water	3005A	
MB 500-781186/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781186/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 781683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Dissolved	Water	6020B	781186
500-254110-1	NB2-3_20240724	Total Recoverable	Water	6020B	781186
MB 500-781186/1-A	Method Blank	Total Recoverable	Water	6020B	781186
LCS 500-781186/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781186

Analysis Batch: 781704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total Recoverable	Water	SM 2340B	781186

Analysis Batch: 781875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Dissolved	Water	6020B	781186
500-254110-1	NB2-3_20240724	Total Recoverable	Water	6020B	781186
MB 500-781186/1-A	Method Blank	Total Recoverable	Water	6020B	781186
LCS 500-781186/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781186

General Chemistry

Analysis Batch: 778596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	300.0	
MB 500-778596/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778596/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	300.0	
MB 500-778597/3	Method Blank	Total/NA	Water	300.0	
LCS 500-778597/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 778742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Dissolved	Water	SM 5310C	
MB 500-778742/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-778742/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 778907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	SM 2540C	
MB 500-778907/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-778907/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry

Analysis Batch: 779349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	SM 2540D	
MB 500-779349/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-779349/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 779429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	SM 4500 S2 F	
MB 500-779429/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-779429/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 779504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	SM 2520B	

Prep Batch: 780072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	Distill/CN	
MB 500-780072/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780072/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	335.4	780072
MB 500-780072/1-A	Method Blank	Total/NA	Water	335.4	780072
LCS 500-780072/2-A	Lab Control Sample	Total/NA	Water	335.4	780072

Analysis Batch: 780255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	SM 2320B	
MB 500-780255/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-780255/29	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 780794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	300.0	
MB 500-780794/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780794/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	SM 5310C	
MB 500-780802/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-780802/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 780961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	365.2/365.3/365	
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254110-1

General Chemistry

Prep Batch: 781418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	Distill/Ammonia	
MB 500-781418/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 781722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	365.1	780961
MB 500-780961/1-A	Method Blank	Total/NA	Water	365.1	780961
LCS 500-780961/2-A	Lab Control Sample	Total/NA	Water	365.1	780961

Analysis Batch: 781794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	350.1	781418
MB 500-781418/1-A	Method Blank	Total/NA	Water	350.1	781418
LCS 500-781418/2-A	Lab Control Sample	Total/NA	Water	350.1	781418

Prep Batch: 782810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	365.2/365.3/365	
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 782997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254110-1	NB2-3_20240724	Total/NA	Water	365.1	782810
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.1	782810
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.1	782810

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2490/1-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:12	1

Lab Sample ID: MB 350-2490/2-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:22	1

Lab Sample ID: MB 350-2490/3-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/01/24 10:43	08/02/24 14:32	1

Lab Sample ID: LCS 350-2490/4-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.920		ng/L		92	65 - 135

Lab Sample ID: LCSD 350-2490/5-A
Matrix: Water
Analysis Batch: 2513

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2490

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	1.00		ng/L		100	65 - 135	8	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2500/55
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 14:18	1

Lab Sample ID: MB 350-2500/56
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 14:22	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2500/59
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/02/24 14:35	1

Lab Sample ID: LCS 350-2500/60
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.51		ng/L		90	77 - 123

Lab Sample ID: LCSD 350-2500/61
Matrix: Water
Analysis Batch: 2500

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.55		ng/L		91	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2495/1-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/01/24 17:00	08/02/24 13:41	1

Lab Sample ID: MB 350-2495/2-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/01/24 17:00	08/02/24 13:44	1

Lab Sample ID: LCS 350-2495/3-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	24.0		ug/L		96	85 - 115

Lab Sample ID: LCSD 350-2495/4-A
Matrix: Water
Analysis Batch: 2503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2495

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.8		ug/L		91	85 - 115	5	20

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254110-1 MS
Matrix: Water
Analysis Batch: 2503

Client Sample ID: NB2-3_20240724
Prep Type: Total Recoverable
Prep Batch: 2495

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	0.027	J	25.0	24.8		ug/L		99	70 - 130

Lab Sample ID: 500-254110-1 MSD
Matrix: Water
Analysis Batch: 2503

Client Sample ID: NB2-3_20240724
Prep Type: Total Recoverable
Prep Batch: 2495

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	0.027	J	25.0	25.0		ug/L		100	70 - 130	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781186/1-A
Matrix: Water
Analysis Batch: 781683

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/13/24 14:48	08/15/24 11:53	1
Antimony	<1.3		3.0	1.3	ug/L		08/13/24 14:48	08/15/24 11:53	1
Arsenic	<0.23		1.0	0.23	ug/L		08/13/24 14:48	08/15/24 11:53	1
Barium	<0.73		2.5	0.73	ug/L		08/13/24 14:48	08/15/24 11:53	1
Beryllium	<0.53		1.0	0.53	ug/L		08/13/24 14:48	08/15/24 11:53	1
Cadmium	<0.17		0.50	0.17	ug/L		08/13/24 14:48	08/15/24 11:53	1
Calcium	<44		200	44	ug/L		08/13/24 14:48	08/15/24 11:53	1
Chromium	<1.1		5.0	1.1	ug/L		08/13/24 14:48	08/15/24 11:53	1
Cobalt	<0.40		1.0	0.40	ug/L		08/13/24 14:48	08/15/24 11:53	1
Copper	<0.50		2.0	0.50	ug/L		08/13/24 14:48	08/15/24 11:53	1
Iron	<47		100	47	ug/L		08/13/24 14:48	08/15/24 11:53	1
Lead	<0.19		0.50	0.19	ug/L		08/13/24 14:48	08/15/24 11:53	1
Lithium	<2.5		10	2.5	ug/L		08/13/24 14:48	08/15/24 11:53	1
Magnesium	<49		200	49	ug/L		08/13/24 14:48	08/15/24 11:53	1
Manganese	<0.79		2.5	0.79	ug/L		08/13/24 14:48	08/15/24 11:53	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/13/24 14:48	08/15/24 11:53	1
Nickel	<0.63		2.0	0.63	ug/L		08/13/24 14:48	08/15/24 11:53	1
Potassium	<110		500	110	ug/L		08/13/24 14:48	08/15/24 11:53	1
Selenium	<0.98		2.5	0.98	ug/L		08/13/24 14:48	08/15/24 11:53	1
Silver	<0.12		0.50	0.12	ug/L		08/13/24 14:48	08/15/24 11:53	1
Sodium	159	J	200	77	ug/L		08/13/24 14:48	08/15/24 11:53	1
Strontium	<0.64		4.0	0.64	ug/L		08/13/24 14:48	08/15/24 11:53	1
Thallium	<0.57		2.0	0.57	ug/L		08/13/24 14:48	08/15/24 11:53	1
Tin	<1.3		5.0	1.3	ug/L		08/13/24 14:48	08/15/24 11:53	1
Vanadium	<2.2		5.0	2.2	ug/L		08/13/24 14:48	08/15/24 11:53	1
Zinc	<6.9		20	6.9	ug/L		08/13/24 14:48	08/15/24 11:53	1

Lab Sample ID: MB 500-781186/1-A
Matrix: Water
Analysis Batch: 781875

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	57.6		50	13	ug/L		08/13/24 14:48	08/16/24 11:32	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781186/2-A
Matrix: Water
Analysis Batch: 781683

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1860		ug/L		93	80 - 120
Antimony	500	467		ug/L		93	80 - 120
Arsenic	100	91.8		ug/L		92	80 - 120
Barium	500	480		ug/L		96	80 - 120
Beryllium	50.0	46.8		ug/L		94	80 - 120
Cadmium	50.0	46.7		ug/L		93	80 - 120
Calcium	10000	8480		ug/L		85	80 - 120
Chromium	200	197		ug/L		98	80 - 120
Cobalt	500	478		ug/L		96	80 - 120
Copper	250	239		ug/L		96	80 - 120
Iron	1000	991		ug/L		99	80 - 120
Lead	100	95.7		ug/L		96	80 - 120
Lithium	100	97.8		ug/L		98	80 - 120
Magnesium	10000	9770		ug/L		98	80 - 120
Manganese	500	492		ug/L		98	80 - 120
Molybdenum	1000	913		ug/L		91	80 - 120
Nickel	500	481		ug/L		96	80 - 120
Potassium	10000	9920		ug/L		99	80 - 120
Selenium	100	93.2		ug/L		93	80 - 120
Silver	50.0	46.7		ug/L		93	80 - 120
Sodium	10000	9820		ug/L		98	80 - 120
Strontium	1000	926		ug/L		93	80 - 120
Thallium	100	99.4		ug/L		99	80 - 120
Tin	1000	929		ug/L		93	80 - 120
Vanadium	500	483		ug/L		97	80 - 120
Zinc	500	461		ug/L		92	80 - 120

Lab Sample ID: LCS 500-781186/2-A
Matrix: Water
Analysis Batch: 781875

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	1070		ug/L		107	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-778596/3
Matrix: Water
Analysis Batch: 778596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			07/26/24 11:57	1
Fluoride	<0.19		1.0	0.19	mg/L			07/26/24 11:57	1
Sulfate	<0.21		1.0	0.21	mg/L			07/26/24 11:57	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-778596/4
Matrix: Water
Analysis Batch: 778596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.9		mg/L		99	90 - 110
Fluoride	20.0	21.1		mg/L		105	90 - 110
Sulfate	20.0	21.5		mg/L		108	90 - 110

Lab Sample ID: MB 500-778597/3
Matrix: Water
Analysis Batch: 778597

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			07/26/24 11:57	1
Nitrite as N	<0.070		1.0	0.070	mg/L			07/26/24 11:57	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			07/26/24 11:57	1

Lab Sample ID: LCS 500-778597/4
Matrix: Water
Analysis Batch: 778597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.4		mg/L		97	90 - 110
Nitrite as N	20.0	21.2		mg/L		106	90 - 110
Nitrate Nitrite as N	40.0	40.6		mg/L		101	90 - 110

Lab Sample ID: MB 500-780794/3
Matrix: Water
Analysis Batch: 780794

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/10/24 11:41	1

Lab Sample ID: LCS 500-780794/4
Matrix: Water
Analysis Batch: 780794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.2		mg/L		96	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780072/1-A
Matrix: Water
Analysis Batch: 780194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/06/24 10:01	08/06/24 14:02	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 500-780072/2-A
Matrix: Water
Analysis Batch: 780194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0966		mg/L		97	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-781418/1-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/14/24 15:14	08/15/24 17:26	1

Lab Sample ID: LCS 500-781418/2-A
Matrix: Water
Analysis Batch: 781794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.97		mg/L		99	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780961/1-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^- ^1-	0.050	0.024	mg/L		08/13/24 11:40	08/13/24 17:36	1

Lab Sample ID: LCS 500-780961/2-A
Matrix: Water
Analysis Batch: 781722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.367	^1- *- ^-	mg/L		73	88 - 123

Lab Sample ID: MB 500-782810/1-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:03	1

Lab Sample ID: LCS 500-782810/2-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.889		mg/L		89	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-780255/28
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/06/24 19:45	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 19:45	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/06/24 19:45	1

Lab Sample ID: LCS 500-780255/29
Matrix: Water
Analysis Batch: 780255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	106		mg/L		106	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-778907/1
Matrix: Water
Analysis Batch: 778907

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			07/30/24 01:21	1

Lab Sample ID: LCS 500-778907/2
Matrix: Water
Analysis Batch: 778907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-779349/1
Matrix: Water
Analysis Batch: 779349

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			07/31/24 17:40	1

Lab Sample ID: LCS 500-779349/2
Matrix: Water
Analysis Batch: 779349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	185		mg/L		93	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-779429/1
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			07/31/24 22:15	1

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: LCS 500-779429/2
Matrix: Water
Analysis Batch: 779429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			3.64	3.42		mg/L		94	85 - 115		

Method: SM 5310C - TOC

Lab Sample ID: MB 500-780802/7
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/08/24 12:59	1

Lab Sample ID: LCS 500-780802/8
Matrix: Water
Analysis Batch: 780802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			10.0	10.1		mg/L		101	86 - 116		

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-778742/7
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			07/28/24 18:19	1

Lab Sample ID: LCS 500-778742/8
Matrix: Water
Analysis Batch: 778742

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Dissolved Organic Carbon			10.0	10.3		mg/L		103	86 - 116		

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254110-1

Client Sample ID: NB2-3_20240724

Date Collected: 07/24/24 14:20
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254110-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2490	AJD	EET SSM	08/01/24 10:43
Dissolved	Analysis	1630		1	2513	CL	EET SSM	08/02/24 18:37
Total/NA	Prep	1630			2490	AJD	EET SSM	08/01/24 10:43
Total/NA	Analysis	1630		1	2513	CL	EET SSM	08/02/24 18:27
Dissolved	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 19:42
Total/NA	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 19:37
Dissolved	Prep	1638			2495	COW	EET SSM	08/01/24 17:00
Dissolved	Analysis	1638		1	2503	COW	EET SSM	08/02/24 16:18
Total Recoverable	Prep	1638			2495	COW	EET SSM	08/01/24 17:00
Total Recoverable	Analysis	1638		1	2503	COW	EET SSM	08/02/24 15:53
Dissolved	Prep	3005A			781186	S1Z	EET CHI	08/13/24 14:48 - 08/13/24 20:48 [1]
Dissolved	Analysis	6020B		1	781683	RN	EET CHI	08/15/24 12:13
Dissolved	Prep	3005A			781186	S1Z	EET CHI	08/13/24 14:48 - 08/13/24 20:48 [1]
Dissolved	Analysis	6020B		1	781875	RN	EET CHI	08/16/24 11:57
Total Recoverable	Prep	3005A			781186	S1Z	EET CHI	08/13/24 14:48 - 08/13/24 20:48 [1]
Total Recoverable	Analysis	6020B		1	781683	RN	EET CHI	08/15/24 12:11
Total Recoverable	Prep	3005A			781186	S1Z	EET CHI	08/13/24 14:48 - 08/13/24 20:48 [1]
Total Recoverable	Analysis	6020B		1	781875	RN	EET CHI	08/16/24 11:55
Total Recoverable	Prep	3005A			781186	S1Z	EET CHI	08/13/24 14:48 - 08/13/24 20:48 [1]
Total Recoverable	Analysis	SM 2340B		1	781704	DAJ	EET CHI	08/15/24 15:36
Total/NA	Analysis	300.0		10	780794	W1T	EET CHI	08/10/24 14:43
Total/NA	Analysis	300.0		1	778596	W1T	EET CHI	07/26/24 12:28
Total/NA	Analysis	300.0		1	778597	W1T	EET CHI	07/26/24 12:28
Total/NA	Prep	Distill/CN			780072	AC	EET CHI	08/06/24 10:01 - 08/06/24 10:31 [1]
Total/NA	Analysis	335.4		1	780194	KF	EET CHI	08/06/24 14:59
Total/NA	Prep	Distill/Ammonia			781418	EB	EET CHI	08/14/24 15:14 - 08/14/24 16:14 [1]
Total/NA	Analysis	350.1		1	781794	KF	EET CHI	08/15/24 17:36
Total/NA	Prep	365.2/365.3/365			780961	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:40 [1]
Total/NA	Analysis	365.1		1	781722	LP	EET CHI	08/13/24 17:47
Total/NA	Prep	365.2/365.3/365			782810	ER	EET CHI	08/22/24 14:15 - 08/22/24 18:15 [1]
Total/NA	Analysis	365.1		1	782997	KF	EET CHI	08/23/24 12:13
Total/NA	Analysis	SM 2320B		1	780255	SO	EET CHI	08/06/24 20:07
Total/NA	Analysis	SM 2520B		1	779504	TR	EET CHI	07/29/24 15:19
Total/NA	Analysis	SM 2540C		1	778907	CLB	EET CHI	07/30/24 02:20
Total/NA	Analysis	SM 2540D		1	779349	SO	EET CHI	07/31/24 17:54 - 07/31/24 17:56 [1]
Total/NA	Analysis	SM 4500 S2 F		1	779429	CLB	EET CHI	07/31/24 22:39 - 07/31/24 22:42 [1]
Dissolved	Analysis	SM 5310C		1	778742	TR	EET CHI	07/29/24 03:11
Total/NA	Analysis	SM 5310C		1	780802	TR	EET CHI	08/08/24 21:22

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254110-1

Client Sample ID: NB2-3_20240724_FBLL

Date Collected: 07/24/24 14:20
Date Received: 07/26/24 09:50

Lab Sample ID: 500-254110-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2500	AJD	EET SSM	08/02/24 19:46

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254110-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	08-07-24
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	08-07-24
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 405179622147	COC No: 500-126351-50241 23
Client Contact: Amanda Zeidler	Phone: 517 513 2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254110
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N - None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

Other: 500-254110 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC SM5310	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, ~~3500_CR_B~~, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	~~3500_CR_B - Dissolved Chromium, Hex (field filtered)~~	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	N		
1 NB2-3_20240724	07-24-24	14:20	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	18	
2 NB2-3_20240724_FBLL	07-24-24	14:20	G	Water										✓	MM					2	
			G	Water										MS							
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	7/25/24 1200	MSG		7/25/24 1200	MSG
2		7/25/24 1600	MSG	405179622147	7/25/24 1600	Fedex
3				Stephanie Hemandez	7/26/24 0950	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 4.8+4.7

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 79622147	COC No: 500-126351-50241 24
Client Contact: Amanda Zeidler	Phone: 517 513 2249	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500254110
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A - HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
1 NB2-3_20240724	07-24-24	14:20	G	Water			✓	1	
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FEDEX Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	7/25/24 1200	MSG	[signature]	7/25/24 1200	MSG
2	[signature]	7/25/24 1600	MSG	4051 79622147	7/25/24 1600	Fedex
3				[signature]	7/26/24 0950	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks

ED CHRESTENSEN
HE MANNIK & SMITH GROUP
16 SHELDEN AVE
UITE 210
OUGHTON, MI 49931
NITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808

Part# 159469-494 MTM EXP 01/25

SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

-4.8 -4.7

UNIVERSITY PARK IL 60484

(708) 534-5200 REF:
INV:
PO: DEPT:

MA

FedEx Express

J24102311220tcv

RETURNS MON-SAT
FRI - 26 JUL AA
PRIORITY OVERNIGHT

FedEx.
TRK# 0221 4051 7962 2147

60484
IL-US
ORD

XP JOTA

3732349 25Jul2024 CMXA 581G9/E0E4/C0B8

500-254110 Waybi

484

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-190992.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-254110-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/15/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: White Pines, MI	Project #: 50023455			
Site	SSOW#			

Analysis Requested

Preservation Codes: -

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
NB2-3_20240724 (500-254110-1)	7/24/24	14:20 Eastern		Water			X	X	X	X	X	X	8	
NB2-3_20240724_FBLL (500-254110-2)	7/24/24	14:20 Eastern		Water				X					2	

Rad Blue

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 3.0 / 2.0 °C
Delivery: UPS / FedEx / Other
Ice Type: Blue / Dry / Wet / None
Label Ver. Packing: B

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is to be received under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification: Unconfirmed 7051 7620 4617	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Shri Scott	7/29/24 0830			7/31/24 9:49	BLS
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254110-1

Login Number: 254110
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254110-1

Login Number: 254110
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 07/31/24 02:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254110 Field Sheet

Date:	7/31/2024
End Time:	15:07
pH Paper Lot:	HC234723
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254110-F-1	<2				
500-254110-E-1	<2				
500-254110-K-1	<2				
500-254110-J-1	<2				

7/31/24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/23/2024 4:48:12 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254861-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/23/2024 4:48:12 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254861-1

Receipt
The samples were received on 8/9/2024 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.3º C.

Metals
Method 6020B: The initial low level calibration verification (ICVL) result for batch 500-782080 was above the upper control limit. The affected analytes are: Lead. Sample results were below the reporting limit, and have been reported as qualified data.

Method 6020B: The continuing calibration verification (CCV) associated with batch 500-782080 recovered above the upper control limit for Cobalt. The samples associated with this CCV were below the reporting limit for the affected analytes; therefore, the data have been reported.

Method 6020B: The continuing calibration verification (CCV) associated with batch 500-782311 recovered above the upper control limit for Boron. The samples results associated with this CCV were below the reporting limit for the affected analytes or QC samples that recovered within control limits; therefore, the data have been reported.

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- Initial blank level (Incomplete Integration)
- 500-254427-E-1-A (Incomplete Integration)
- CCB (Instrument Noise)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The method blank for analytical batch 500-780682 contained Nitrate as N and Nitrate Nitrite as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254861-1

Client Sample ID: PNC-04_20240807

Lab Sample ID: 500-254861-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.27		0.050	0.022	ng/L	1		1630	Total/NA
Methyl Mercury	0.16		0.050	0.022	ng/L	1		1630	Dissolved
Mercury	0.66		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.45	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	1.2		0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	1.2		0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	26	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.69	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	170		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	200	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	56000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	0.48	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	2.0		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	1500		100	47	ug/L	1		6020B	Total Recoverable
Lithium	17		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	10000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	640		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1700		500	110	ug/L	1		6020B	Total Recoverable
Sodium	23000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	610		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.55	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	170		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	190	B	50	13	ug/L	1		6020B	Dissolved
Calcium	55000		200	44	ug/L	1		6020B	Dissolved
Cobalt	0.43	J ^+	1.0	0.40	ug/L	1		6020B	Dissolved
Copper	1.6	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	470		100	47	ug/L	1		6020B	Dissolved
Lithium	17		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	10000		200	49	ug/L	1		6020B	Dissolved
Manganese	640		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1700		500	110	ug/L	1		6020B	Dissolved
Sodium	23000		200	77	ug/L	1		6020B	Dissolved
Strontium	610		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	180		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.61	J	1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	72		5.0	0.58	mg/L	5		300.0	Total/NA
Fluoride	0.22	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	1.7		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	120		5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PNC-04_20240807 (Continued) — Lab Sample ID: 500-254861-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO3	120		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	330		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	5.6		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	6.7		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	6.3		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: PNC-04_20240807_FBLL — Lab Sample ID: 500-254861-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254861-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254861-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254861-1	PNC-04_20240807	Water	08/07/24 12:00	08/09/24 09:55
500-254861-2	PNC-04_20240807_FBLL	Water	08/07/24 12:00	08/09/24 09:55

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254861-1

Client Sample ID: PNC-04_20240807

Date Collected: 08/07/24 12:00
Date Received: 08/09/24 09:55

Lab Sample ID: 500-254861-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.27**		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 21:13	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.16**		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 21:23	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.66**		0.50	0.20	ng/L			08/19/24 15:07	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.45**	**J**	0.50	0.20	ng/L			08/19/24 15:11	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**1.2**		0.030	0.0098	ug/L		08/14/24 17:10	08/15/24 13:33	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**1.2**		0.030	0.0098	ug/L		08/14/24 17:10	08/15/24 13:29	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**26**	**J**	100	25	ug/L		08/15/24 16:39	08/19/24 19:29	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:39	08/19/24 19:29	1
Arsenic	**0.69**	**J**	1.0	0.23	ug/L		08/15/24 16:39	08/19/24 19:29	1
Barium	**170**		2.5	0.73	ug/L		08/15/24 16:39	08/19/24 19:29	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:39	08/19/24 19:29	1
Boron	**200**	**B**	50	13	ug/L		08/15/24 16:39	08/19/24 19:29	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:39	08/19/24 19:29	1
Calcium	**56000**		200	44	ug/L		08/15/24 16:39	08/19/24 19:29	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:39	08/19/24 19:29	1
Cobalt	**0.48**	**J**	1.0	0.40	ug/L		08/15/24 16:39	08/19/24 19:29	1
Copper	**2.0**		2.0	0.50	ug/L		08/15/24 16:39	08/19/24 19:29	1
Iron	**1500**		100	47	ug/L		08/15/24 16:39	08/19/24 19:29	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 16:39	08/19/24 19:29	1
Lithium	**17**		10	2.5	ug/L		08/15/24 16:39	08/19/24 19:29	1
Magnesium	**10000**		200	49	ug/L		08/15/24 16:39	08/19/24 19:29	1
Manganese	**640**		2.5	0.79	ug/L		08/15/24 16:39	08/19/24 19:29	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:39	08/19/24 19:29	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:39	08/19/24 19:29	1
Potassium	**1700**		500	110	ug/L		08/15/24 16:39	08/19/24 19:29	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:39	08/19/24 19:29	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:39	08/19/24 19:29	1
Sodium	**23000**		200	77	ug/L		08/15/24 16:39	08/19/24 19:29	1
Strontium	**610**		4.0	0.64	ug/L		08/15/24 16:39	08/19/24 19:29	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:39	08/19/24 19:29	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:39	08/19/24 19:29	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:39	08/19/24 19:29	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:39	08/19/24 19:29	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254861-1

Client Sample ID: PNC-04_20240807

Date Collected: 08/07/24 12:00
Date Received: 08/09/24 09:55

Lab Sample ID: 500-254861-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:28	08/16/24 17:56	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:56	1
Arsenic	**0.55**	**J**	1.0	0.23	ug/L		08/15/24 16:28	08/16/24 17:56	1
Barium	**170**		2.5	0.73	ug/L		08/15/24 16:28	08/16/24 17:56	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:28	08/16/24 17:56	1
Boron	**190**	**B**	50	13	ug/L		08/15/24 16:28	08/16/24 17:56	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:28	08/16/24 17:56	1
Calcium	**55000**		200	44	ug/L		08/15/24 16:28	08/16/24 17:56	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:28	08/16/24 17:56	1
Cobalt	**0.43**	**J ^+**	1.0	0.40	ug/L		08/15/24 16:28	08/16/24 17:56	1
Copper	**1.6**	**J**	2.0	0.50	ug/L		08/15/24 16:28	08/16/24 17:56	1
Iron	**470**		100	47	ug/L		08/15/24 16:28	08/16/24 17:56	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/15/24 16:28	08/16/24 17:56	1
Lithium	**17**		10	2.5	ug/L		08/15/24 16:28	08/16/24 17:56	1
Magnesium	**10000**		200	49	ug/L		08/15/24 16:28	08/16/24 17:56	1
Manganese	**640**		2.5	0.79	ug/L		08/15/24 16:28	08/16/24 17:56	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:28	08/16/24 17:56	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:28	08/16/24 17:56	1
Potassium	**1700**		500	110	ug/L		08/15/24 16:28	08/16/24 17:56	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:28	08/16/24 17:56	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:28	08/16/24 17:56	1
Sodium	**23000**		200	77	ug/L		08/15/24 16:28	08/16/24 17:56	1
Strontium	**610**		4.0	0.64	ug/L		08/15/24 16:28	08/16/24 17:56	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:28	08/16/24 17:56	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:56	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:28	08/16/24 17:56	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:28	08/16/24 17:56	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**180**		0.91	0.46	mg/L		08/15/24 16:39	08/19/24 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.61**	**J**	1.0	0.18	mg/L			08/09/24 10:31	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			08/09/24 10:31	1
Chloride (EPA 300.0)	**72**		5.0	0.58	mg/L			08/20/24 21:37	5
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/09/24 10:31	1
Fluoride (EPA 300.0)	**0.22**	**J**	1.0	0.19	mg/L			08/09/24 10:31	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/09/24 10:31	1
Sulfate (EPA 300.0)	**1.7**		1.0	0.21	mg/L			08/09/24 10:31	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/14/24 15:41	08/15/24 14:45	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:37	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:13	1
Alkalinity (SM 2320B)	**120**		5.0	3.7	mg/L			08/16/24 15:35	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**120**		5.0	3.7	mg/L			08/16/24 15:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/16/24 15:35	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			08/22/24 08:53	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254861-1

Client Sample ID: PNC-04_20240807
Date Collected: 08/07/24 12:00
Date Received: 08/09/24 09:55

Lab Sample ID: 500-254861-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	330		10	4.3	mg/L			08/13/24 02:33	1
Total Suspended Solids (SM 2540D)	5.6		5.0	1.9	mg/L			08/14/24 23:07	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			08/12/24 23:37	1
Total Organic Carbon (SM 5310C)	6.7		1.0	0.47	mg/L			08/20/24 03:19	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	6.3		1.0	0.47	mg/L			08/20/24 07:38	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254861-1

Client Sample ID: PNC-04_20240807_FBLL
Date Collected: 08/07/24 12:00
Date Received: 08/09/24 09:55

Lab Sample ID: 500-254861-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/15/24 18:25	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254861-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Dissolved	Water	1638	
500-254861-1	PNC-04_20240807	Total Recoverable	Water	1638	
MB 350-2559/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2559/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2559/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2559/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Prep Batch: 2564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Dissolved	Water	1630	
500-254861-1	PNC-04_20240807	Total/NA	Water	1630	
MB 350-2564/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2564/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2564/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2564/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2564/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 2569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Dissolved	Water	1638	2559
500-254861-1	PNC-04_20240807	Total Recoverable	Water	1638	2559
MB 350-2559/1-A	Method Blank	Total Recoverable	Water	1638	2559
MB 350-2559/2-A	Method Blank	Total Recoverable	Water	1638	2559
LCS 350-2559/3-A	Lab Control Sample	Total Recoverable	Water	1638	2559
LCSD 350-2559/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2559

Analysis Batch: 2572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Dissolved	Water	1630	2564
500-254861-1	PNC-04_20240807	Total/NA	Water	1630	2564
MB 350-2564/1-A	Method Blank	Total/NA	Water	1630	2564
MB 350-2564/2-A	Method Blank	Total/NA	Water	1630	2564
MB 350-2564/3-A	Method Blank	Total/NA	Water	1630	2564
LCS 350-2564/4-A	Lab Control Sample	Total/NA	Water	1630	2564
LCSD 350-2564/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2564

Analysis Batch: 2573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-2	PNC-04_20240807_FBLL	Total/NA	Water	1631E	
MB 350-2573/14	Method Blank	Total/NA	Water	1631E	
MB 350-2573/15	Method Blank	Total/NA	Water	1631E	
MB 350-2573/16	Method Blank	Total/NA	Water	1631E	
LCS 350-2573/19	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2573/20	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Dissolved	Water	1631E	
500-254861-1	PNC-04_20240807	Total/NA	Water	1631E	
MB 350-2592/25	Method Blank	Total/NA	Water	1631E	
MB 350-2592/26	Method Blank	Total/NA	Water	1631E	

Metals (Continued)

Analysis Batch: 2592 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 350-2592/27	Method Blank	Total/NA	Water	1631E	
LCS 350-2592/28	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2592/29	Lab Control Sample Dup	Total/NA	Water	1631E	

Prep Batch: 781714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Dissolved	Water	3005A	
MB 500-781714/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781714/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 781716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total Recoverable	Water	3005A	
MB 500-781716/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781716/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 782080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Dissolved	Water	6020B	781714
MB 500-781714/1-A	Method Blank	Total Recoverable	Water	6020B	781714
LCS 500-781714/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781714

Analysis Batch: 782127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total Recoverable	Water	SM 2340B	781716

Analysis Batch: 782311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total Recoverable	Water	6020B	781716
MB 500-781716/1-A	Method Blank	Total Recoverable	Water	6020B	781716
LCS 500-781716/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781716

General Chemistry

Analysis Batch: 780681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total/NA	Water	300.0	
MB 500-780681/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780681/4	Lab Control Sample	Total/NA	Water	300.0	
500-254861-1 MS	PNC-04_20240807	Total/NA	Water	300.0	
500-254861-1 MSD	PNC-04_20240807	Total/NA	Water	300.0	

Analysis Batch: 780682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total/NA	Water	300.0	
MB 500-780682/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780682/4	Lab Control Sample	Total/NA	Water	300.0	
500-254861-1 MS	PNC-04_20240807	Total/NA	Water	300.0	
500-254861-1 MSD	PNC-04_20240807	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 781031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total/NA	Water	SM 2540C	
MB 500-781031/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-781031/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 781032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total/NA	Water	SM 4500 S2 F	
MB 500-781032/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-781032/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Prep Batch: 781452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total/NA	Water	Distill/CN	
MB 500-781452/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-781452/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 781495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total/NA	Water	SM 2540D	
MB 500-781495/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-781495/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 781700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total/NA	Water	335.4	781452
MB 500-781452/1-A	Method Blank	Total/NA	Water	335.4	781452
LCS 500-781452/2-A	Lab Control Sample	Total/NA	Water	335.4	781452

Analysis Batch: 781989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total/NA	Water	SM 2320B	
MB 500-781989/2	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-781989/3	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 782272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total/NA	Water	SM 5310C	
MB 500-782272/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-782272/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 782275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Dissolved	Water	SM 5310C	
MB 500-782275/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-782275/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Prep Batch: 782364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total/NA	Water	Distill/Ammonia	
MB 500-782364/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

General Chemistry (Continued)

Prep Batch: 782364 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1 MS	PNC-04_20240807	Total/NA	Water	Distill/Ammonia	
500-254861-1 MSD	PNC-04_20240807	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 782372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total/NA	Water	300.0	
MB 500-782372/33	Method Blank	Total/NA	Water	300.0	
LCS 500-782372/34	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 782748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total/NA	Water	SM 2520B	

Analysis Batch: 782798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total/NA	Water	350.1	782364
MB 500-782364/1-A	Method Blank	Total/NA	Water	350.1	782364
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	350.1	782364
500-254861-1 MS	PNC-04_20240807	Total/NA	Water	350.1	782364
500-254861-1 MSD	PNC-04_20240807	Total/NA	Water	350.1	782364

Prep Batch: 782810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total/NA	Water	365.2/365.3/365	
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 782997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254861-1	PNC-04_20240807	Total/NA	Water	365.1	782810
MB 500-782810/1-A	Method Blank	Total/NA	Water	365.1	782810
LCS 500-782810/2-A	Lab Control Sample	Total/NA	Water	365.1	782810

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2564/1-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 17:28	1

Lab Sample ID: MB 350-2564/2-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 17:39	1

Lab Sample ID: MB 350-2564/3-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 17:49	1

Lab Sample ID: LCS 350-2564/4-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	1.01		ng/L		101	65 - 135

Lab Sample ID: LCSD 350-2564/5-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2564

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.969		ng/L		97	65 - 135	5	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2573/14
Matrix: Water
Analysis Batch: 2573

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/15/24 14:53	1

Lab Sample ID: MB 350-2573/15
Matrix: Water
Analysis Batch: 2573

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/15/24 14:57	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2573/16
Matrix: Water
Analysis Batch: 2573

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/15/24 15:02	1

Lab Sample ID: LCS 350-2573/19
Matrix: Water
Analysis Batch: 2573

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.65		ng/L		93	77 - 123

Lab Sample ID: LCSD 350-2573/20
Matrix: Water
Analysis Batch: 2573

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.61		ng/L		92	77 - 123	1	24

Lab Sample ID: MB 350-2592/25
Matrix: Water
Analysis Batch: 2592

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/19/24 13:05	1

Lab Sample ID: MB 350-2592/26
Matrix: Water
Analysis Batch: 2592

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/19/24 13:09	1

Lab Sample ID: MB 350-2592/27
Matrix: Water
Analysis Batch: 2592

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/19/24 13:13	1

Lab Sample ID: LCS 350-2592/28
Matrix: Water
Analysis Batch: 2592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.48		ng/L		90	77 - 123

Lab Sample ID: LCSD 350-2592/29
Matrix: Water
Analysis Batch: 2592

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.43		ng/L		89	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2559/1-A
Matrix: Water
Analysis Batch: 2569

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2559

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/14/24 17:10	08/15/24 11:29	1

Lab Sample ID: MB 350-2559/2-A
Matrix: Water
Analysis Batch: 2569

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2559

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/14/24 17:10	08/15/24 11:33	1

Lab Sample ID: LCS 350-2559/3-A
Matrix: Water
Analysis Batch: 2569

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2559

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium			25.0	21.7		ug/L		87	85 - 115		

Lab Sample ID: LCSD 350-2559/4-A
Matrix: Water
Analysis Batch: 2569

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2559

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium			25.0	22.2		ug/L		89	85 - 115	3	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781714/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:28	08/16/24 17:24	1
Antimony	1.60	J	3.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:24	1
Arsenic	<0.23		1.0	0.23	ug/L		08/15/24 16:28	08/16/24 17:24	1
Barium	<0.73		2.5	0.73	ug/L		08/15/24 16:28	08/16/24 17:24	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:28	08/16/24 17:24	1
Boron	13.1	J	50	13	ug/L		08/15/24 16:28	08/16/24 17:24	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:28	08/16/24 17:24	1
Calcium	<44		200	44	ug/L		08/15/24 16:28	08/16/24 17:24	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:28	08/16/24 17:24	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:28	08/16/24 17:24	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:28	08/16/24 17:24	1
Iron	<47		100	47	ug/L		08/15/24 16:28	08/16/24 17:24	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/15/24 16:28	08/16/24 17:24	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 16:28	08/16/24 17:24	1
Magnesium	<49		200	49	ug/L		08/15/24 16:28	08/16/24 17:24	1
Manganese	<0.79		2.5	0.79	ug/L		08/15/24 16:28	08/16/24 17:24	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:28	08/16/24 17:24	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:28	08/16/24 17:24	1
Potassium	<110		500	110	ug/L		08/15/24 16:28	08/16/24 17:24	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:28	08/16/24 17:24	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-781714/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:28	08/16/24 17:24	1
Sodium	<77		200	77	ug/L		08/15/24 16:28	08/16/24 17:24	1
Strontium	<0.64		4.0	0.64	ug/L		08/15/24 16:28	08/16/24 17:24	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:28	08/16/24 17:24	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:24	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:28	08/16/24 17:24	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:28	08/16/24 17:24	1

Lab Sample ID: LCS 500-781714/2-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2010		ug/L		101	80 - 120
Antimony	500	539		ug/L		108	80 - 120
Arsenic	100	103		ug/L		103	80 - 120
Barium	500	521		ug/L		104	80 - 120
Beryllium	50.0	51.5		ug/L		103	80 - 120
Boron	1000	1030		ug/L		103	80 - 120
Cadmium	50.0	52.5		ug/L		105	80 - 120
Calcium	10000	8690		ug/L		87	80 - 120
Chromium	200	215		ug/L		108	80 - 120
Cobalt	500	543		ug/L		109	80 - 120
Copper	250	263		ug/L		105	80 - 120
Iron	1000	1080		ug/L		108	80 - 120
Lead	100	106	^1+	ug/L		106	80 - 120
Lithium	100	108		ug/L		108	80 - 120
Magnesium	10000	10700		ug/L		107	80 - 120
Manganese	500	522		ug/L		104	80 - 120
Molybdenum	1000	995		ug/L		99	80 - 120
Nickel	500	527		ug/L		105	80 - 120
Potassium	10000	10600		ug/L		106	80 - 120
Selenium	100	104		ug/L		104	80 - 120
Silver	50.0	52.0		ug/L		104	80 - 120
Sodium	10000	10500		ug/L		105	80 - 120
Strontium	1000	1030		ug/L		103	80 - 120
Thallium	100	105		ug/L		105	80 - 120
Tin	1000	1020		ug/L		102	80 - 120
Vanadium	500	527		ug/L		105	80 - 120
Zinc	500	518		ug/L		104	80 - 120

Lab Sample ID: MB 500-781716/1-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:39	08/19/24 18:57	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:39	08/19/24 18:57	1
Arsenic	<0.23		1.0	0.23	ug/L		08/15/24 16:39	08/19/24 18:57	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-781716/1-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.73		2.5	0.73	ug/L		08/15/24 16:39	08/19/24 18:57	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:39	08/19/24 18:57	1
Boron	17.8	J ^+	50	13	ug/L		08/15/24 16:39	08/19/24 18:57	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:39	08/19/24 18:57	1
Calcium	<44		200	44	ug/L		08/15/24 16:39	08/19/24 18:57	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:39	08/19/24 18:57	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:39	08/19/24 18:57	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:39	08/19/24 18:57	1
Iron	<47		100	47	ug/L		08/15/24 16:39	08/19/24 18:57	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 16:39	08/19/24 18:57	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 16:39	08/19/24 18:57	1
Magnesium	<49		200	49	ug/L		08/15/24 16:39	08/19/24 18:57	1
Manganese	<0.79		2.5	0.79	ug/L		08/15/24 16:39	08/19/24 18:57	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:39	08/19/24 18:57	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:39	08/19/24 18:57	1
Potassium	<110		500	110	ug/L		08/15/24 16:39	08/19/24 18:57	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:39	08/19/24 18:57	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:39	08/19/24 18:57	1
Sodium	<77		200	77	ug/L		08/15/24 16:39	08/19/24 18:57	1
Strontium	<0.64		4.0	0.64	ug/L		08/15/24 16:39	08/19/24 18:57	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:39	08/19/24 18:57	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:39	08/19/24 18:57	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:39	08/19/24 18:57	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:39	08/19/24 18:57	1

Lab Sample ID: LCS 500-781716/2-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1980		ug/L		99	80 - 120
Antimony	500	506		ug/L		101	80 - 120
Arsenic	100	98.7		ug/L		99	80 - 120
Barium	500	505		ug/L		101	80 - 120
Beryllium	50.0	50.3		ug/L		101	80 - 120
Boron	1000	1020	^+	ug/L		102	80 - 120
Cadmium	50.0	51.0		ug/L		102	80 - 120
Calcium	10000	8510		ug/L		85	80 - 120
Chromium	200	207		ug/L		103	80 - 120
Cobalt	500	538		ug/L		108	80 - 120
Copper	250	255		ug/L		102	80 - 120
Iron	1000	1060		ug/L		106	80 - 120
Lead	100	101		ug/L		101	80 - 120
Lithium	100	107		ug/L		107	80 - 120
Magnesium	10000	10500		ug/L		105	80 - 120
Manganese	500	520		ug/L		104	80 - 120
Molybdenum	1000	970		ug/L		97	80 - 120
Nickel	500	510		ug/L		102	80 - 120
Potassium	10000	10400		ug/L		104	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781716/2-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	100	99.4		ug/L		99	80 - 120
Silver	50.0	50.4		ug/L		101	80 - 120
Sodium	10000	10300		ug/L		103	80 - 120
Strontium	1000	977		ug/L		98	80 - 120
Thallium	100	104		ug/L		104	80 - 120
Tin	1000	996		ug/L		100	80 - 120
Vanadium	500	516		ug/L		103	80 - 120
Zinc	500	502		ug/L		100	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-780681/3
Matrix: Water
Analysis Batch: 780681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			08/09/24 09:44	1
Fluoride	<0.19		1.0	0.19	mg/L			08/09/24 09:44	1
Sulfate	<0.21		1.0	0.21	mg/L			08/09/24 09:44	1

Lab Sample ID: LCS 500-780681/4
Matrix: Water
Analysis Batch: 780681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	18.9		mg/L		95	90 - 110
Fluoride	20.0	20.5		mg/L		103	90 - 110
Sulfate	20.0	21.4		mg/L		107	90 - 110

Lab Sample ID: 500-254861-1 MS
Matrix: Water
Analysis Batch: 780681

Client Sample ID: PNC-04_20240807
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.61	J	10.0	10.2		mg/L		96	80 - 120
Fluoride	0.22	J	10.0	11.3		mg/L		110	80 - 120
Sulfate	1.7		10.0	12.1		mg/L		104	80 - 120

Lab Sample ID: 500-254861-1 MSD
Matrix: Water
Analysis Batch: 780681

Client Sample ID: PNC-04_20240807
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.61	J	10.0	10.2		mg/L		96	80 - 120	0	20
Fluoride	0.22	J	10.0	11.2		mg/L		110	80 - 120	0	20
Sulfate	1.7		10.0	12.1		mg/L		104	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-780682/3
Matrix: Water
Analysis Batch: 780682

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.430	J	1.0	0.043	mg/L			08/09/24 09:44	1
Nitrite as N	<0.070		1.0	0.070	mg/L			08/09/24 09:44	1
Nitrate Nitrite as N	0.430	J	1.0	0.070	mg/L			08/09/24 09:44	1

Lab Sample ID: LCS 500-780682/4
Matrix: Water
Analysis Batch: 780682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.6		mg/L		98	90 - 110
Nitrite as N	20.0	20.9		mg/L		105	90 - 110
Nitrate Nitrite as N	40.0	40.5		mg/L		101	90 - 110

Lab Sample ID: 500-254861-1 MS
Matrix: Water
Analysis Batch: 780682

Client Sample ID: PNC-04_20240807
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	<0.043		10.0	9.12		mg/L		91	80 - 120
Nitrite as N	<0.070		10.0	10.6		mg/L		106	80 - 120
Nitrate Nitrite as N	<0.070		20.0	19.7		mg/L		99	80 - 120

Lab Sample ID: 500-254861-1 MSD
Matrix: Water
Analysis Batch: 780682

Client Sample ID: PNC-04_20240807
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.043		10.0	9.10		mg/L		91	80 - 120	0	20
Nitrite as N	<0.070		10.0	10.6		mg/L		106	80 - 120	0	20
Nitrate Nitrite as N	<0.070		20.0	19.7		mg/L		99	80 - 120	0	20

Lab Sample ID: MB 500-782372/33
Matrix: Water
Analysis Batch: 782372

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/20/24 20:50	1

Lab Sample ID: LCS 500-782372/34
Matrix: Water
Analysis Batch: 782372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	21.1		mg/L		106	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-781452/1-A
Matrix: Water
Analysis Batch: 781700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/14/24 15:41	08/15/24 14:12	1

Lab Sample ID: LCS 500-781452/2-A
Matrix: Water
Analysis Batch: 781700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.101		mg/L		101	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-782364/1-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:35	1

Lab Sample ID: LCS 500-782364/2-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.02		mg/L		101	90 - 110

Lab Sample ID: 500-254861-1 MS
Matrix: Water
Analysis Batch: 782798

Client Sample ID: PNC-04_20240807
Prep Type: Total/NA
Prep Batch: 782364

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	<0.10		2.00	1.94		mg/L		97	90 - 110

Lab Sample ID: 500-254861-1 MSD
Matrix: Water
Analysis Batch: 782798

Client Sample ID: PNC-04_20240807
Prep Type: Total/NA
Prep Batch: 782364

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	<0.10		2.00	1.92		mg/L		96	90 - 110	1	20

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-782810/1-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		08/22/24 14:15	08/23/24 12:03	1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCS 500-782810/2-A
Matrix: Water
Analysis Batch: 782997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.889		mg/L		89	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-781989/2
Matrix: Water
Analysis Batch: 781989

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/16/24 14:28	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/16/24 14:28	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/16/24 14:28	1

Lab Sample ID: LCS 500-781989/3
Matrix: Water
Analysis Batch: 781989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	98.8		mg/L		99	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-781031/1
Matrix: Water
Analysis Batch: 781031

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			08/13/24 01:55	1

Lab Sample ID: LCS 500-781031/2
Matrix: Water
Analysis Batch: 781031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	226		mg/L		90	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-781495/1
Matrix: Water
Analysis Batch: 781495

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/14/24 22:35	1

Lab Sample ID: LCS 500-781495/2
Matrix: Water
Analysis Batch: 781495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	202		mg/L		101	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-781032/1
Matrix: Water
Analysis Batch: 781032

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			08/12/24 22:58	1

Lab Sample ID: LCS 500-781032/2
Matrix: Water
Analysis Batch: 781032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.47		mg/L		95	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-782272/7
Matrix: Water
Analysis Batch: 782272

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/19/24 18:54	1

Lab Sample ID: LCS 500-782272/8
Matrix: Water
Analysis Batch: 782272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	9.42		mg/L		94	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-782275/7
Matrix: Water
Analysis Batch: 782275

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			08/20/24 07:38	1

Lab Sample ID: LCS 500-782275/8
Matrix: Water
Analysis Batch: 782275

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	9.42		mg/L		94	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254861-1

Client Sample ID: PNC-04_20240807

Lab Sample ID: 500-254861-1

Date Collected: 08/07/24 12:00

Matrix: Water

Date Received: 08/09/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2564	AJD	EET SSM	08/15/24 10:55
Dissolved	Analysis	1630		1	2572	CL	EET SSM	08/15/24 21:23
Total/NA	Prep	1630			2564	AJD	EET SSM	08/15/24 10:55
Total/NA	Analysis	1630		1	2572	CL	EET SSM	08/15/24 21:13
Dissolved	Analysis	1631E		1	2592	COW	EET SSM	08/19/24 15:11
Total/NA	Analysis	1631E		1	2592	COW	EET SSM	08/19/24 15:07
Dissolved	Prep	1638			2559	V1R	EET SSM	08/14/24 17:10
Dissolved	Analysis	1638		1	2569	V1R	EET SSM	08/15/24 13:29
Total Recoverable	Prep	1638			2559	V1R	EET SSM	08/14/24 17:10
Total Recoverable	Analysis	1638		1	2569	V1R	EET SSM	08/15/24 13:33
Dissolved	Prep	3005A			781714	S1Z	EET CHI	08/15/24 16:28 - 08/15/24 21:29 [1]
Dissolved	Analysis	6020B		1	782080	RN	EET CHI	08/16/24 17:56
Total Recoverable	Prep	3005A			781716	S1Z	EET CHI	08/15/24 16:39 - 08/15/24 21:40 [1]
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 19:29
Total Recoverable	Prep	3005A			781716	S1Z	EET CHI	08/15/24 16:39 - 08/15/24 21:40 [1]
Total Recoverable	Analysis	SM 2340B		1	782127	DAJ	EET CHI	08/19/24 09:57
Total/NA	Analysis	300.0		1	780681	W1T	EET CHI	08/09/24 10:31
Total/NA	Analysis	300.0		1	780682	W1T	EET CHI	08/09/24 10:31
Total/NA	Analysis	300.0		5	782372	W1T	EET CHI	08/20/24 21:37
Total/NA	Prep	Distill/CN			781452	AC	EET CHI	08/14/24 15:41 - 08/14/24 16:11 [1]
Total/NA	Analysis	335.4		1	781700	AC	EET CHI	08/15/24 14:45
Total/NA	Prep	Distill/Ammonia			782364	EB	EET CHI	08/20/24 11:33 - 08/20/24 12:33 [1]
Total/NA	Analysis	350.1		1	782798	KF	EET CHI	08/22/24 10:37
Total/NA	Prep	365.2/365.3/365			782810	ER	EET CHI	08/22/24 14:15 - 08/22/24 18:15 [1]
Total/NA	Analysis	365.1		1	782997	KF	EET CHI	08/23/24 12:13
Total/NA	Analysis	SM 2320B		1	781989	ER	EET CHI	08/16/24 15:35
Total/NA	Analysis	SM 2520B		1	782748	TR	EET CHI	08/22/24 08:53
Total/NA	Analysis	SM 2540C		1	781031	CLB	EET CHI	08/13/24 02:33
Total/NA	Analysis	SM 2540D		1	781495	CLB	EET CHI	08/14/24 23:07 - 08/14/24 23:09 [1]
Total/NA	Analysis	SM 4500 S2 F		1	781032	CLB	EET CHI	08/12/24 23:37 - 08/12/24 23:40 [1]
Dissolved	Analysis	SM 5310C		1	782275	TR	EET CHI	08/20/24 07:38
Total/NA	Analysis	SM 5310C		1	782272	TR	EET CHI	08/20/24 03:19

Client Sample ID: PNC-04_20240807_FBLL

Lab Sample ID: 500-254861-2

Date Collected: 08/07/24 12:00

Matrix: Water

Date Received: 08/09/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2573	AJD	EET SSM	08/15/24 18:25

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254861-1

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Nitrate Nitrite as N
6020B	3005A	Water	Lithium
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2520B		Water	Salinity

Laboratory: Eurofins Seattle Specialty Metals

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	399133460	12-18-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1630	1630	Water	Methyl Mercury
1638	1638	Water	Uranium

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: Jed Chrestensen	Lab PM: Fredrick, Sandie	500-254861 COC	Carrier Tracking No(s): 4051 7962 4209	COC No: 500-126351-50241 95
Client Contact: Amanda Zeidler	Phone: 906 281 4726	E-Mail: Sandra Fredrick@et.eurofinsus com		State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:				Job #: 500-254861
Address: 35503 Mall Circle Drive	Due Date Requested:				
City: White Pine	TAT Requested (days): 10 days				
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No				
Phone: 906-204-6500	PO #: Purchase Order not required				
Email: AZeidler@whitepinecu com	WO #:				
Project Name: White Pine, MI	Project #: 50023455				
Site:	SSOW#:				

Analysis Requested

Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL; Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
1	PNC-04_20240807	8.7.24	12:00	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	19	
2	PNC-04_20240807_FBLL	8.7.24	12:00	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8-7-24 1600	MSG	4051 7962 [signature] MS	8/8/24 1000	MSG
2	[signature]	8/8/24 1400	MSG	4051 7962 4209	8/8/24 1400	Fedex
3				Stephanie Hernandez	8/9/24 0905	EEIA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 4.4 → 4.3

JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808

Part 1 9469-434 M"W EXP 07/25

TO **SAMPLE RECEIPT**
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200 REF
INV:
PO: DEPT:

RMA.

FedEx Express

J241023112201uv

FedEx
TRK# 0221 4051 7962 4209

FRI - 09 AUG AA
PRIORITY OVERNIGHT

XP JOTA

60484
IL-US
ORD

5878720 08Aug2024 CNXA 581G6/A12D/C0B8

500-254861 Waybi

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254861-1

Login Number: 254861
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254861-1

Login Number: 254861
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 08/14/24 02:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254861 Field Sheet

Date:	8/14/2024
End Time:	14:25
KI Paper Lot:	na
Analyst:	[illegible]

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	19630
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-254861-A-1	A	Y	.8	2	
500-254861-B-1	A	Y	.8	2	
500-254861-C-1	A	Y	.8	2	
500-254861-D-1	A	Y	.8	2	
500-254861-A-2	A	Y	.8	2	
500-254861-B-2	A	Y	.8	2	

8/16/24

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500-254861 Field Sheet

Date:	8/14/2024
End Time:	1421:52
pH Paper Lot:	hc324723
Analyst:	IR

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254861-F-1	<2	ND	NA	NA	NA
500-254861-E-1	<2				

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/29/2024 1:31:59 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254365-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



Generated
8/29/2024 1:31:59 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254365-1

Receipt
The samples were received on 08/01/24 09:50. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.6º C, 2.3º C and 2.6º C.

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: MW-5A_20240730 (500-254365-1), MW-5A_20240730 (500-254365-1[MS]), MW-5A_20240730 (500-254365-1[MSD]), MW-5A_20240730_FBLL (500-254365-2), MW-5A_20240730_FBLL (500-254365-2[MS]) and MW-5A_20240730_FBLL (500-254365-2[MSD]). Methyl Hg

Metals
Method 6020B: The initial low level calibration verification (ICVL) result for batch 500-782080 was above the upper control limit. The affected analyte is: Lead. Sample results were below the reporting limit, and have been reported as qualified data.

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- STD1-22908 (Incomplete Integration)
- CCB (Incomplete Integration)

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- STD1-23405 (Incomplete Integration)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The following sample was received with insufficient time remaining to perform the analysis within holding time: MW-5A_20240730 (500-254365-1), MW-5A_20240730 (500-254365-1[MS]) and MW-5A_20240730 (500-254365-1[MSD]).

Method 300.0: The method blank for analytical batch 500-779470 contained Nitrate as N and Nitrate Nitrite as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 335.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-780526 and analytical batch 500-781207 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 335.4: The initial calibration verification (ICV) associated with batch 500-780726 recovered above the upper control limit for Cyanide, Total. The samples associated with this ICV were rerun in another batch and only the batch MB and LCS are impacted for the affected analyte; therefore, the data have been reported. The associated samples are impacted: (ICV 500-780526/27-A), (LCS 500-780526/2-A) and (MB 500-780526/1-A).

Method 350.1: The matrix spike duplicate (MSD) recoveries for preparation batch 500-781826 and analytical batch 500-782356 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 365.1: The method blank for preparation batch 500-783635 and analytical batch 500-783821 contained Phosphorus as P above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 365.1: Reanalysis of the following samples was performed outside of the analytical holding time - required repreparation to confirm initial results: MW-5A_20240730 (500-254365-1), MW-5A_20240730 (500-254365-1[MS]) and MW-5A_20240730 (500-254365-1[MSD]).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254365-1

Client Sample ID: MW-5A_20240730

Lab Sample ID: 500-254365-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.32	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.21	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	15		0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	14		0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	29	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.27	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	840		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	250	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	160000		200	44	ug/L	1		6020B	Total Recoverable
Copper	1.7	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	54	J	100	47	ug/L	1		6020B	Total Recoverable
Lithium	76		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	8700		200	49	ug/L	1		6020B	Total Recoverable
Manganese	90		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	4.0	J	5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	620		500	110	ug/L	1		6020B	Total Recoverable
Sodium	150000	B	200	77	ug/L	1		6020B	Total Recoverable
Strontium	3200		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.30	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	850		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	230	B	50	13	ug/L	1		6020B	Dissolved
Calcium	180000		200	44	ug/L	1		6020B	Dissolved
Copper	1.4	J	2.0	0.50	ug/L	1		6020B	Dissolved
Lithium	65		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	13000		200	49	ug/L	1		6020B	Dissolved
Manganese	330		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	2.8	J	5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	600		500	110	ug/L	1		6020B	Dissolved
Sodium	130000		200	77	ug/L	1		6020B	Dissolved
Strontium	3500		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	430		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	2.4		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	260		20	2.3	mg/L	20		300.0	Total/NA
Sulfate	2.4		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.11	H B	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	340		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	340		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.70		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	920		10	4.3	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client Sample ID: MW-5A_20240730 (Continued) — Lab Sample ID: 500-254365-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	2.2	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	2.3		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	2.8		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-5A_20240730_FBLL — Lab Sample ID: 500-254365-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.58		0.50	0.20	ng/L	1		1631E	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254365-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254365-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254365-1	MW-5A_20240730	Water	07/30/24 12:30	08/01/24 09:50
500-254365-2	MW-5A_20240730_FBLL	Water	07/30/24 12:30	08/01/24 09:50

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254365-1

Client Sample ID: MW-5A_20240730

Date Collected: 07/30/24 12:30
Date Received: 08/01/24 09:50

Lab Sample ID: 500-254365-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/13/24 11:12	08/14/24 19:05	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/13/24 11:12	08/14/24 19:35	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.32**	**J**	0.50	0.20	ng/L			08/08/24 13:22	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**	**J**	0.50	0.20	ng/L			08/08/24 13:26	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**15**		0.030	0.0098	ug/L		08/05/24 14:37	08/06/24 18:50	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**14**		0.030	0.0098	ug/L		08/05/24 14:37	08/06/24 20:43	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**29**	**J**	100	25	ug/L		08/14/24 15:40	08/16/24 20:35	1
Antimony	<1.3		3.0	1.3	ug/L		08/14/24 15:40	08/16/24 20:35	1
Arsenic	**0.27**	**J**	1.0	0.23	ug/L		08/14/24 15:40	08/16/24 20:35	1
Barium	**840**		2.5	0.73	ug/L		08/14/24 15:40	08/16/24 20:35	1
Beryllium	<0.53		1.0	0.53	ug/L		08/14/24 15:40	08/16/24 20:35	1
Boron	**250**	**B**	50	13	ug/L		08/14/24 15:40	08/16/24 20:35	1
Cadmium	<0.17		0.50	0.17	ug/L		08/14/24 15:40	08/16/24 20:35	1
Calcium	**160000**		200	44	ug/L		08/14/24 15:40	08/16/24 20:35	1
Chromium	<1.1		5.0	1.1	ug/L		08/14/24 15:40	08/16/24 20:35	1
Cobalt	<0.40		1.0	0.40	ug/L		08/14/24 15:40	08/16/24 20:35	1
Copper	**1.7**	**J**	2.0	0.50	ug/L		08/14/24 15:40	08/16/24 20:35	1
Iron	**54**	**J**	100	47	ug/L		08/14/24 15:40	08/16/24 20:35	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/14/24 15:40	08/16/24 20:35	1
Lithium	**76**		10	2.5	ug/L		08/14/24 15:40	08/16/24 20:35	1
Magnesium	**8700**		200	49	ug/L		08/14/24 15:40	08/16/24 20:35	1
Manganese	**90**		2.5	0.79	ug/L		08/14/24 15:40	08/16/24 20:35	1
Molybdenum	**4.0**	**J**	5.0	2.5	ug/L		08/14/24 15:40	08/16/24 20:35	1
Nickel	<0.63		2.0	0.63	ug/L		08/14/24 15:40	08/16/24 20:35	1
Potassium	**620**		500	110	ug/L		08/14/24 15:40	08/16/24 20:35	1
Selenium	<0.98		2.5	0.98	ug/L		08/14/24 15:40	08/16/24 20:35	1
Silver	<0.12		0.50	0.12	ug/L		08/14/24 15:40	08/16/24 20:35	1
Sodium	**150000**	**B**	200	77	ug/L		08/14/24 15:40	08/16/24 20:35	1
Strontium	**3200**		4.0	0.64	ug/L		08/14/24 15:40	08/16/24 20:35	1
Thallium	<0.57		2.0	0.57	ug/L		08/14/24 15:40	08/16/24 20:35	1
Tin	<1.3		5.0	1.3	ug/L		08/14/24 15:40	08/16/24 20:35	1
Vanadium	<2.2		5.0	2.2	ug/L		08/14/24 15:40	08/16/24 20:35	1
Zinc	<6.9		20	6.9	ug/L		08/14/24 15:40	08/16/24 20:35	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254365-1

Client Sample ID: MW-5A_20240730

Lab Sample ID: 500-254365-1

Date Collected: 07/30/24 12:30

Matrix: Water

Date Received: 08/01/24 09:50

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/14/24 15:44	08/16/24 19:27	1
Antimony	<1.3		3.0	1.3	ug/L		08/14/24 15:44	08/16/24 19:27	1
Arsenic	**0.30**	**J**	1.0	0.23	ug/L		08/14/24 15:44	08/16/24 19:27	1
Barium	**850**		2.5	0.73	ug/L		08/14/24 15:44	08/16/24 19:27	1
Beryllium	<0.53		1.0	0.53	ug/L		08/14/24 15:44	08/16/24 19:27	1
Boron	**230**	**B**	50	13	ug/L		08/14/24 15:44	08/19/24 12:51	1
Cadmium	<0.17		0.50	0.17	ug/L		08/14/24 15:44	08/16/24 19:27	1
Calcium	**180000**		200	44	ug/L		08/14/24 15:44	08/16/24 19:27	1
Chromium	<1.1		5.0	1.1	ug/L		08/14/24 15:44	08/16/24 19:27	1
Cobalt	<0.40		1.0	0.40	ug/L		08/14/24 15:44	08/16/24 19:27	1
Copper	**1.4**	**J**	2.0	0.50	ug/L		08/14/24 15:44	08/16/24 19:27	1
Iron	<47		100	47	ug/L		08/14/24 15:44	08/16/24 19:27	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/14/24 15:44	08/16/24 19:27	1
Lithium	**65**		10	2.5	ug/L		08/14/24 15:44	08/16/24 19:27	1
Magnesium	**13000**		200	49	ug/L		08/14/24 15:44	08/16/24 19:27	1
Manganese	**330**		2.5	0.79	ug/L		08/14/24 15:44	08/16/24 19:27	1
Molybdenum	**2.8**	**J**	5.0	2.5	ug/L		08/14/24 15:44	08/16/24 19:27	1
Nickel	<0.63		2.0	0.63	ug/L		08/14/24 15:44	08/16/24 19:27	1
Potassium	**600**		500	110	ug/L		08/14/24 15:44	08/16/24 19:27	1
Selenium	<0.98		2.5	0.98	ug/L		08/14/24 15:44	08/16/24 19:27	1
Silver	<0.12		0.50	0.12	ug/L		08/14/24 15:44	08/16/24 19:27	1
Sodium	**130000**		200	77	ug/L		08/14/24 15:44	08/19/24 12:51	1
Strontium	**3500**		4.0	0.64	ug/L		08/14/24 15:44	08/16/24 19:27	1
Thallium	<0.57		2.0	0.57	ug/L		08/14/24 15:44	08/16/24 19:27	1
Tin	<1.3		5.0	1.3	ug/L		08/14/24 15:44	08/16/24 19:27	1
Vanadium	<2.2		5.0	2.2	ug/L		08/14/24 15:44	08/16/24 19:27	1
Zinc	<6.9		20	6.9	ug/L		08/14/24 15:44	08/16/24 19:27	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**430**		0.91	0.46	mg/L		08/14/24 15:40	08/19/24 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**2.4**		1.0	0.18	mg/L			08/01/24 12:18	1
Nitrate as N (EPA 300.0)	<0.043	H	1.0	0.043	mg/L			08/01/24 12:18	1
Chloride (EPA 300.0)	**260**		20	2.3	mg/L			08/15/24 06:50	20
Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			08/01/24 12:18	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			08/01/24 12:18	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			08/01/24 12:18	1
Sulfate (EPA 300.0)	**2.4**		1.0	0.21	mg/L			08/01/24 12:18	1
Cyanide, Total (EPA 335.4)	<0.0036	F1	0.0050	0.0036	mg/L		08/08/24 13:35	08/10/24 12:03	1
Ammonia (EPA 350.1)	<0.10	F1	0.20	0.10	mg/L		08/16/24 11:19	08/16/24 14:50	1
Phosphorus as P (EPA 365.1)	**0.11**	**H B**	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:38	1
Alkalinity (SM 2320B)	**340**		5.0	3.7	mg/L			08/07/24 19:28	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**340**		5.0	3.7	mg/L			08/07/24 19:28	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/07/24 19:28	1
Salinity (SM 2520B)	**0.70**		0.33	0.33	psu			08/19/24 08:00	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254365-1

Client Sample ID: MW-5A_20240730
Date Collected: 07/30/24 12:30
Date Received: 08/01/24 09:50

Lab Sample ID: 500-254365-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	920		10	4.3	mg/L			08/05/24 00:24	1
Total Suspended Solids (SM 2540D)	2.2	J	5.0	1.9	mg/L			08/06/24 14:04	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			08/05/24 22:53	1
Total Organic Carbon (SM 5310C)	2.3		1.0	0.47	mg/L			08/16/24 06:47	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	2.8		1.0	0.47	mg/L			08/15/24 21:27	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254365-1

Client Sample ID: MW-5A_20240730_FBLL
Date Collected: 07/30/24 12:30
Date Received: 08/01/24 09:50

Lab Sample ID: 500-254365-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.58		0.50	0.20	ng/L			08/08/24 13:30	1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total Recoverable	Water	1638	
MB 350-2504/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2504/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2504/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2504/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-254365-1 MS	MW-5A_20240730	Total Recoverable	Water	1638	
500-254365-1 MSD	MW-5A_20240730	Total Recoverable	Water	1638	

Prep Batch: 2507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Dissolved	Water	1638	
MB 350-2507/1-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2507/2-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2507/3-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-254365-1 MS	MW-5A_20240730	Dissolved	Water	1638	
500-254365-1 MSD	MW-5A_20240730	Dissolved	Water	1638	

Analysis Batch: 2516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Dissolved	Water	1638	2507
500-254365-1	MW-5A_20240730	Total Recoverable	Water	1638	2504
MB 350-2504/1-A	Method Blank	Total Recoverable	Water	1638	2504
MB 350-2504/2-A	Method Blank	Total Recoverable	Water	1638	2504
MB 350-2507/1-A	Method Blank	Total Recoverable	Water	1638	2507
LCS 350-2504/3-A	Lab Control Sample	Total Recoverable	Water	1638	2504
LCS 350-2507/2-A	Lab Control Sample	Total Recoverable	Water	1638	2507
LCSD 350-2504/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2504
LCSD 350-2507/3-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2507
500-254365-1 MS	MW-5A_20240730	Dissolved	Water	1638	2507
500-254365-1 MS	MW-5A_20240730	Total Recoverable	Water	1638	2504
500-254365-1 MSD	MW-5A_20240730	Dissolved	Water	1638	2507
500-254365-1 MSD	MW-5A_20240730	Total Recoverable	Water	1638	2504

Analysis Batch: 2531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Dissolved	Water	1631E	
500-254365-1	MW-5A_20240730	Total/NA	Water	1631E	
500-254365-2	MW-5A_20240730_FBLL	Total/NA	Water	1631E	
MB 350-2531/17	Method Blank	Total/NA	Water	1631E	
MB 350-2531/18	Method Blank	Total/NA	Water	1631E	
MB 350-2531/19	Method Blank	Total/NA	Water	1631E	
MB 350-2531/20	Method Blank	Total/NA	Water	1631E	
MB 350-2531/23	Method Blank	Total/NA	Water	1631E	
MB 350-2531/24	Method Blank	Total/NA	Water	1631E	
LCS 350-2531/28	Lab Control Sample	Total/NA	Water	1631E	
LCS 350-2531/30	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2531/29	Lab Control Sample Dup	Total/NA	Water	1631E	
LCSD 350-2531/31	Lab Control Sample Dup	Total/NA	Water	1631E	
500-254365-1 MS	MW-5A_20240730	Dissolved	Water	1631E	
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	1631E	
500-254365-1 MSD	MW-5A_20240730	Dissolved	Water	1631E	

Metals (Continued)

Analysis Batch: 2531 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	1631E	
500-254365-2 MS	MW-5A_20240730_FBLL	Total/NA	Water	1631E	
500-254365-2 MSD	MW-5A_20240730_FBLL	Total/NA	Water	1631E	

Prep Batch: 2547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Dissolved	Water	1630	
500-254365-1	MW-5A_20240730	Total/NA	Water	1630	
MB 350-2547/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2547/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2547/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2547/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2547/5-A	Lab Control Sample Dup	Total/NA	Water	1630	
500-254365-1 MS	MW-5A_20240730	Dissolved	Water	1630	
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	1630	
500-254365-1 MSD	MW-5A_20240730	Dissolved	Water	1630	
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	1630	

Analysis Batch: 2565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Dissolved	Water	1630	2547
500-254365-1	MW-5A_20240730	Total/NA	Water	1630	2547
MB 350-2547/1-A	Method Blank	Total/NA	Water	1630	2547
MB 350-2547/2-A	Method Blank	Total/NA	Water	1630	2547
MB 350-2547/3-A	Method Blank	Total/NA	Water	1630	2547
LCS 350-2547/4-A	Lab Control Sample	Total/NA	Water	1630	2547
LCSD 350-2547/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2547
500-254365-1 MS	MW-5A_20240730	Dissolved	Water	1630	2547
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	1630	2547
500-254365-1 MSD	MW-5A_20240730	Dissolved	Water	1630	2547
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	1630	2547

Prep Batch: 781451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total Recoverable	Water	3005A	
MB 500-781451/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781451/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-254365-1 MS	MW-5A_20240730	Total Recoverable	Water	3005A	
500-254365-1 MSD	MW-5A_20240730	Total Recoverable	Water	3005A	
500-254365-1 DU	MW-5A_20240730	Total Recoverable	Water	3005A	

Prep Batch: 781453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Dissolved	Water	3005A	
MB 500-781453/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781453/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-254365-1 MS	MW-5A_20240730	Dissolved	Water	3005A	
500-254365-1 MSD	MW-5A_20240730	Dissolved	Water	3005A	
500-254365-1 DU	MW-5A_20240730	Dissolved	Water	3005A	

Metals

Analysis Batch: 782080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Dissolved	Water	6020B	781453
500-254365-1	MW-5A_20240730	Total Recoverable	Water	6020B	781451
MB 500-781451/1-A	Method Blank	Total Recoverable	Water	6020B	781451
MB 500-781453/1-A	Method Blank	Total Recoverable	Water	6020B	781453
LCS 500-781451/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781451
LCS 500-781453/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781453
500-254365-1 MS	MW-5A_20240730	Dissolved	Water	6020B	781453
500-254365-1 MS	MW-5A_20240730	Total Recoverable	Water	6020B	781451
500-254365-1 MSD	MW-5A_20240730	Dissolved	Water	6020B	781453
500-254365-1 MSD	MW-5A_20240730	Total Recoverable	Water	6020B	781451
500-254365-1 DU	MW-5A_20240730	Dissolved	Water	6020B	781453
500-254365-1 DU	MW-5A_20240730	Total Recoverable	Water	6020B	781451

Analysis Batch: 782128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total Recoverable	Water	SM 2340B	781451

Analysis Batch: 782199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Dissolved	Water	6020B	781453
MB 500-781453/1-A	Method Blank	Total Recoverable	Water	6020B	781453
LCS 500-781453/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781453
500-254365-1 MS	MW-5A_20240730	Dissolved	Water	6020B	781453
500-254365-1 MSD	MW-5A_20240730	Dissolved	Water	6020B	781453
500-254365-1 DU	MW-5A_20240730	Dissolved	Water	6020B	781453

General Chemistry

Analysis Batch: 779469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total/NA	Water	300.0	
MB 500-779469/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779469/4	Lab Control Sample	Total/NA	Water	300.0	
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	300.0	
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	300.0	

Analysis Batch: 779470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total/NA	Water	300.0	
MB 500-779470/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779470/4	Lab Control Sample	Total/NA	Water	300.0	
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	300.0	
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	300.0	

Analysis Batch: 779810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total/NA	Water	SM 2540C	
MB 500-779810/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779810/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	SM 2540C	
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	SM 2540C	

General Chemistry

Analysis Batch: 779991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total/NA	Water	SM 4500 S2 F	
MB 500-779991/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-779991/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	SM 4500 S2 F	
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 780106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total/NA	Water	SM 2540D	
MB 500-780106/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-780106/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	SM 2540D	
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	SM 2540D	

Analysis Batch: 780451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total/NA	Water	SM 2320B	
MB 500-780451/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-780451/29	Lab Control Sample	Total/NA	Water	SM 2320B	

Prep Batch: 780526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total/NA	Water	Distill/CN	
MB 500-780526/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780526/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	Distill/CN	
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	Distill/CN	

Analysis Batch: 780726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-780526/1-A	Method Blank	Total/NA	Water	335.4	780526
LCS 500-780526/2-A	Lab Control Sample	Total/NA	Water	335.4	780526

Prep Batch: 780983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-780983/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780983/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 781207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total/NA	Water	335.4	780526
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	335.4	780526
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	335.4	780526

Analysis Batch: 781355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total/NA	Water	300.0	
MB 500-781355/74	Method Blank	Total/NA	Water	300.0	
LCS 500-781355/75	Lab Control Sample	Total/NA	Water	300.0	
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	300.0	
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	300.0	

General Chemistry

Prep Batch: 781826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total/NA	Water	Distill/Ammonia	
MB 500-781826/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-781826/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	Distill/Ammonia	
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 781985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total/NA	Water	SM 5310C	
MB 500-781985/31	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-781985/32	Lab Control Sample	Total/NA	Water	SM 5310C	
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	SM 5310C	
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	SM 5310C	

Analysis Batch: 781988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Dissolved	Water	SM 5310C	
MB 500-781988/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-781988/8	Lab Control Sample	Dissolved	Water	SM 5310C	
500-254365-1 MS	MW-5A_20240730	Dissolved	Water	SM 5310C	
500-254365-1 MSD	MW-5A_20240730	Dissolved	Water	SM 5310C	

Analysis Batch: 782060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total/NA	Water	SM 2520B	

Analysis Batch: 782356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total/NA	Water	350.1	781826
MB 500-781826/1-A	Method Blank	Total/NA	Water	350.1	781826
LCS 500-781826/2-A	Lab Control Sample	Total/NA	Water	350.1	781826
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	350.1	781826
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	350.1	781826

Analysis Batch: 783024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-780983/1-A	Method Blank	Total/NA	Water	365.1	780983
LCS 500-780983/2-A	Lab Control Sample	Total/NA	Water	365.1	780983

Prep Batch: 783635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total/NA	Water	365.2/365.3/365	
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	365.2/365.3/365	
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 783821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254365-1	MW-5A_20240730	Total/NA	Water	365.1	783635
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.1	783635

General Chemistry (Continued)

Analysis Batch: 783821 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.1	783635
500-254365-1 MS	MW-5A_20240730	Total/NA	Water	365.1	783635
500-254365-1 MSD	MW-5A_20240730	Total/NA	Water	365.1	783635

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2547/1-A
Matrix: Water
Analysis Batch: 2565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/13/24 11:12	08/14/24 18:14	1

Lab Sample ID: MB 350-2547/2-A
Matrix: Water
Analysis Batch: 2565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/13/24 11:12	08/14/24 18:24	1

Lab Sample ID: MB 350-2547/3-A
Matrix: Water
Analysis Batch: 2565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/13/24 11:12	08/14/24 18:34	1

Lab Sample ID: LCS 350-2547/4-A
Matrix: Water
Analysis Batch: 2565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.984		ng/L		98	65 - 135

Lab Sample ID: LCSD 350-2547/5-A
Matrix: Water
Analysis Batch: 2565

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2547

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.971		ng/L		97	65 - 135	1	35

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 2565

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA
Prep Batch: 2547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	<0.022		1.00	0.962		ng/L		96	65 - 135

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 2565

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA
Prep Batch: 2547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	<0.022		1.00	0.961		ng/L		96	65 - 135	0	35

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 2565

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved
Prep Batch: 2547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	<0.022		1.00	0.971		ng/L		97	65 - 135

Method: 1630 - Methyl Mercury

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 2565

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved
Prep Batch: 2547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	<0.022		1.00	0.958		ng/L		96	65 - 135	1	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2531/17
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 13:47	1

Lab Sample ID: MB 350-2531/18
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 13:51	1

Lab Sample ID: MB 350-2531/19
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 13:55	1

Lab Sample ID: MB 350-2531/20
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:00	1

Lab Sample ID: MB 350-2531/23
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:12	1

Lab Sample ID: MB 350-2531/24
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:16	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: LCS 350-2531/28
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.74		ng/L		95	77 - 123

Lab Sample ID: LCS 350-2531/30
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.77		ng/L		95	77 - 123

Lab Sample ID: LCSD 350-2531/29
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.80		ng/L		96	77 - 123	1	24

Lab Sample ID: LCSD 350-2531/31
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.81		ng/L		96	77 - 123	1	24

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 2531

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.32	J	8.33	8.18		ng/L		94	71 - 125

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 2531

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.32	J	8.33	8.50		ng/L		98	71 - 125	4	24

Lab Sample ID: 500-254365-2 MS
Matrix: Water
Analysis Batch: 2531

Client Sample ID: MW-5A_20240730_FBLL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	FB Result	FB Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.58		8.33	8.51		ng/L		95	71 - 125

Lab Sample ID: 500-254365-2 MSD
Matrix: Water
Analysis Batch: 2531

Client Sample ID: MW-5A_20240730_FBLL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	FB Result	FB Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.58		8.33	8.59		ng/L		96	71 - 125	1	24

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 2531

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.21	J	8.33	8.54		ng/L		100	71 - 125		

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 2531

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.21	J	8.33	8.60		ng/L		101	71 - 125	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2504/1-A
Matrix: Water
Analysis Batch: 2516

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2504

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/05/24 14:37	08/06/24 18:07	1

Lab Sample ID: MB 350-2504/2-A
Matrix: Water
Analysis Batch: 2516

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2504

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/05/24 14:37	08/06/24 18:10	1

Lab Sample ID: LCS 350-2504/3-A
Matrix: Water
Analysis Batch: 2516

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2504

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium			25.0	22.6		ug/L		90	85 - 115		

Lab Sample ID: LCSD 350-2504/4-A
Matrix: Water
Analysis Batch: 2516

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2504

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium			25.0	22.6		ug/L		90	85 - 115	0	20

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 2516

Client Sample ID: MW-5A_20240730
Prep Type: Total Recoverable
Prep Batch: 2504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium	15		25.0	35.7		ug/L		81	70 - 130		

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 2516

Client Sample ID: MW-5A_20240730
Prep Type: Total Recoverable
Prep Batch: 2504

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	15		25.0	36.7		ug/L		86	70 - 130	3	20

Lab Sample ID: MB 350-2507/1-A
Matrix: Water
Analysis Batch: 2516

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/05/24 14:37	08/06/24 18:14	1

Lab Sample ID: LCS 350-2507/2-A
Matrix: Water
Analysis Batch: 2516

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	21.7		ug/L		87	85 - 115

Lab Sample ID: LCSD 350-2507/3-A
Matrix: Water
Analysis Batch: 2516

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2507

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	23.0		ug/L		92	85 - 115	6	20

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 2516

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved
Prep Batch: 2507

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	14		25.0	35.1		ug/L		86	70 - 130

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 2516

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved
Prep Batch: 2507

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	14		25.0	36.1		ug/L		90	70 - 130	3	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781451/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781451

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/14/24 15:40	08/16/24 20:31	1
Antimony	<1.3		3.0	1.3	ug/L		08/14/24 15:40	08/16/24 20:31	1
Arsenic	<0.23		1.0	0.23	ug/L		08/14/24 15:40	08/16/24 20:31	1
Barium	<0.73		2.5	0.73	ug/L		08/14/24 15:40	08/16/24 20:31	1
Beryllium	<0.53		1.0	0.53	ug/L		08/14/24 15:40	08/16/24 20:31	1
Boron	47.4	J	50	13	ug/L		08/14/24 15:40	08/16/24 20:31	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-781451/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781451

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.17		0.50	0.17	ug/L		08/14/24 15:40	08/16/24 20:31	1
Calcium	<44		200	44	ug/L		08/14/24 15:40	08/16/24 20:31	1
Chromium	<1.1		5.0	1.1	ug/L		08/14/24 15:40	08/16/24 20:31	1
Cobalt	<0.40		1.0	0.40	ug/L		08/14/24 15:40	08/16/24 20:31	1
Copper	<0.50		2.0	0.50	ug/L		08/14/24 15:40	08/16/24 20:31	1
Iron	<47		100	47	ug/L		08/14/24 15:40	08/16/24 20:31	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/14/24 15:40	08/16/24 20:31	1
Lithium	<2.5		10	2.5	ug/L		08/14/24 15:40	08/16/24 20:31	1
Magnesium	<49		200	49	ug/L		08/14/24 15:40	08/16/24 20:31	1
Manganese	<0.79		2.5	0.79	ug/L		08/14/24 15:40	08/16/24 20:31	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/14/24 15:40	08/16/24 20:31	1
Nickel	<0.63		2.0	0.63	ug/L		08/14/24 15:40	08/16/24 20:31	1
Potassium	<110		500	110	ug/L		08/14/24 15:40	08/16/24 20:31	1
Selenium	<0.98		2.5	0.98	ug/L		08/14/24 15:40	08/16/24 20:31	1
Silver	<0.12		0.50	0.12	ug/L		08/14/24 15:40	08/16/24 20:31	1
Sodium	192	J	200	77	ug/L		08/14/24 15:40	08/16/24 20:31	1
Strontium	<0.64		4.0	0.64	ug/L		08/14/24 15:40	08/16/24 20:31	1
Thallium	<0.57		2.0	0.57	ug/L		08/14/24 15:40	08/16/24 20:31	1
Tin	<1.3		5.0	1.3	ug/L		08/14/24 15:40	08/16/24 20:31	1
Vanadium	<2.2		5.0	2.2	ug/L		08/14/24 15:40	08/16/24 20:31	1
Zinc	<6.9		20	6.9	ug/L		08/14/24 15:40	08/16/24 20:31	1

Lab Sample ID: LCS 500-781451/2-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781451

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2040		ug/L		102	80 - 120
Antimony	500	529		ug/L		106	80 - 120
Arsenic	100	103		ug/L		103	80 - 120
Barium	500	527		ug/L		105	80 - 120
Beryllium	50.0	50.2		ug/L		100	80 - 120
Boron	1000	1050		ug/L		105	80 - 120
Cadmium	50.0	51.8		ug/L		104	80 - 120
Calcium	10000	8710		ug/L		87	80 - 120
Chromium	200	212		ug/L		106	80 - 120
Cobalt	500	537		ug/L		107	80 - 120
Copper	250	261		ug/L		104	80 - 120
Iron	1000	1070		ug/L		107	80 - 120
Lead	100	107	^1+	ug/L		107	80 - 120
Lithium	100	107		ug/L		107	80 - 120
Magnesium	10000	10800		ug/L		108	80 - 120
Manganese	500	522		ug/L		104	80 - 120
Molybdenum	1000	1000		ug/L		100	80 - 120
Nickel	500	518		ug/L		104	80 - 120
Potassium	10000	10700		ug/L		107	80 - 120
Selenium	100	104		ug/L		104	80 - 120
Silver	50.0	52.0		ug/L		104	80 - 120
Sodium	10000	10600		ug/L		106	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781451/2-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781451

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Strontium			1000	1040		ug/L		104	80 - 120		
Thallium			100	106		ug/L		106	80 - 120		
Tin			1000	1030		ug/L		103	80 - 120		
Vanadium			500	519		ug/L		104	80 - 120		
Zinc			500	515		ug/L		103	80 - 120		

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 782080

Client Sample ID: MW-5A_20240730
Prep Type: Total Recoverable
Prep Batch: 781451

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum	29	J	2000	1900		ug/L		94	75 - 125		
Antimony	<1.3		500	485		ug/L		97	75 - 125		
Arsenic	0.27	J	100	94.3		ug/L		94	75 - 125		
Barium	840		500	1280		ug/L		87	75 - 125		
Beryllium	<0.53		50.0	47.6		ug/L		95	75 - 125		
Boron	250	B	1000	1130		ug/L		88	75 - 125		
Cadmium	<0.17		50.0	47.9		ug/L		96	75 - 125		
Calcium	160000		10000	163000	4	ug/L		73	75 - 125		
Chromium	<1.1		200	192		ug/L		96	75 - 125		
Cobalt	<0.40		500	485		ug/L		97	75 - 125		
Copper	1.7	J	250	241		ug/L		96	75 - 125		
Iron	54	J	1000	1000		ug/L		95	75 - 125		
Lead	<0.19	^1+	100	97.1	^1+	ug/L		97	75 - 125		
Lithium	76		100	159		ug/L		83	75 - 125		
Magnesium	8700		10000	20400		ug/L		117	75 - 125		
Manganese	90		500	697		ug/L		121	75 - 125		
Molybdenum	4.0	J	1000	951		ug/L		95	75 - 125		
Nickel	<0.63		500	475		ug/L		95	75 - 125		
Potassium	620		10000	10300		ug/L		97	75 - 125		
Selenium	<0.98		100	96.8		ug/L		97	75 - 125		
Silver	<0.12		50.0	47.3		ug/L		95	75 - 125		
Sodium	150000	B	10000	132000	4	ug/L		-148	75 - 125		
Strontium	3200		1000	4020		ug/L		78	75 - 125		
Thallium	<0.57		100	98.1		ug/L		98	75 - 125		
Tin	<1.3		1000	959		ug/L		96	75 - 125		
Vanadium	<2.2		500	486		ug/L		97	75 - 125		
Zinc	<6.9		500	476		ug/L		95	75 - 125		

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 782080

Client Sample ID: MW-5A_20240730
Prep Type: Total Recoverable
Prep Batch: 781451

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	29	J	2000	1990		ug/L		98	75 - 125	5	20
Antimony	<1.3		500	503		ug/L		101	75 - 125	4	20
Arsenic	0.27	J	100	99.9		ug/L		100	75 - 125	6	20
Barium	840		500	1340		ug/L		100	75 - 125	5	20
Beryllium	<0.53		50.0	50.0		ug/L		100	75 - 125	5	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 782080

Client Sample ID: MW-5A_20240730
Prep Type: Total Recoverable
Prep Batch: 781451

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	250	B	1000	1210		ug/L		96	75 - 125	7	20
Cadmium	<0.17		50.0	49.4		ug/L		99	75 - 125	3	20
Calcium	160000		10000	168000	4	ug/L		122	75 - 125	3	20
Chromium	<1.1		200	200		ug/L		100	75 - 125	4	20
Cobalt	<0.40		500	510		ug/L		102	75 - 125	5	20
Copper	1.7	J	250	249		ug/L		99	75 - 125	3	20
Iron	54	J	1000	1050		ug/L		100	75 - 125	5	20
Lead	<0.19	^1+	100	102	^1+	ug/L		102	75 - 125	4	20
Lithium	76		100	168		ug/L		93	75 - 125	6	20
Magnesium	8700		10000	20200		ug/L		115	75 - 125	1	20
Manganese	90		500	654		ug/L		113	75 - 125	6	20
Molybdenum	4.0	J	1000	993		ug/L		99	75 - 125	4	20
Nickel	<0.63		500	497		ug/L		99	75 - 125	4	20
Potassium	620		10000	10800		ug/L		102	75 - 125	5	20
Selenium	<0.98		100	99.1		ug/L		99	75 - 125	2	20
Silver	<0.12		50.0	49.2		ug/L		98	75 - 125	4	20
Sodium	150000	B	10000	143000	4	ug/L		-40	75 - 125	8	20
Strontium	3200		1000	4150		ug/L		91	75 - 125	3	20
Thallium	<0.57		100	103		ug/L		103	75 - 125	5	20
Tin	<1.3		1000	998		ug/L		100	75 - 125	4	20
Vanadium	<2.2		500	505		ug/L		101	75 - 125	4	20
Zinc	<6.9		500	492		ug/L		98	75 - 125	3	20

Lab Sample ID: 500-254365-1 DU
Matrix: Water
Analysis Batch: 782080

Client Sample ID: MW-5A_20240730
Prep Type: Total Recoverable
Prep Batch: 781451

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	29	J		30.9	J	ug/L				8	20
Antimony	<1.3			<1.3		ug/L				NC	20
Arsenic	0.27	J		0.266	J	ug/L				2	20
Barium	840			792		ug/L				6	20
Beryllium	<0.53			<0.53		ug/L				NC	20
Boron	250	B		224		ug/L				12	20
Cadmium	<0.17			<0.17		ug/L				NC	20
Calcium	160000			146000		ug/L				6	20
Chromium	<1.1			<1.1		ug/L				NC	20
Cobalt	<0.40			<0.40		ug/L				NC	20
Copper	1.7	J		1.52	J	ug/L				9	20
Iron	54	J		62.8	J	ug/L				15	20
Lead	<0.19	^1+		<0.19	^1+	ug/L				NC	20
Lithium	76			68.8		ug/L				9	20
Magnesium	8700			8190		ug/L				6	20
Manganese	90			85.5		ug/L				5	20
Molybdenum	4.0	J		3.53	J	ug/L				11	20
Nickel	<0.63			<0.63		ug/L				NC	20
Potassium	620			583		ug/L				6	20
Selenium	<0.98			<0.98		ug/L				NC	20
Silver	<0.12			<0.12		ug/L				NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254365-1 DU
Matrix: Water
Analysis Batch: 782080

Client Sample ID: MW-5A_20240730
Prep Type: Total Recoverable
Prep Batch: 781451

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sodium	150000	B	139000		ug/L		6	20
Strontium	3200		3060		ug/L		6	20
Thallium	<0.57		<0.57		ug/L		NC	20
Tin	<1.3		<1.3		ug/L		NC	20
Vanadium	<2.2		<2.2		ug/L		NC	20
Zinc	<6.9		<6.9		ug/L		NC	20

Lab Sample ID: MB 500-781453/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/14/24 15:44	08/16/24 19:23	1
Antimony	<1.3		3.0	1.3	ug/L		08/14/24 15:44	08/16/24 19:23	1
Arsenic	<0.23		1.0	0.23	ug/L		08/14/24 15:44	08/16/24 19:23	1
Barium	<0.73		2.5	0.73	ug/L		08/14/24 15:44	08/16/24 19:23	1
Beryllium	<0.53		1.0	0.53	ug/L		08/14/24 15:44	08/16/24 19:23	1
Cadmium	<0.17		0.50	0.17	ug/L		08/14/24 15:44	08/16/24 19:23	1
Calcium	<44		200	44	ug/L		08/14/24 15:44	08/16/24 19:23	1
Chromium	<1.1		5.0	1.1	ug/L		08/14/24 15:44	08/16/24 19:23	1
Cobalt	<0.40		1.0	0.40	ug/L		08/14/24 15:44	08/16/24 19:23	1
Copper	<0.50		2.0	0.50	ug/L		08/14/24 15:44	08/16/24 19:23	1
Iron	<47		100	47	ug/L		08/14/24 15:44	08/16/24 19:23	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/14/24 15:44	08/16/24 19:23	1
Lithium	<2.5		10	2.5	ug/L		08/14/24 15:44	08/16/24 19:23	1
Magnesium	<49		200	49	ug/L		08/14/24 15:44	08/16/24 19:23	1
Manganese	<0.79		2.5	0.79	ug/L		08/14/24 15:44	08/16/24 19:23	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/14/24 15:44	08/16/24 19:23	1
Nickel	<0.63		2.0	0.63	ug/L		08/14/24 15:44	08/16/24 19:23	1
Potassium	<110		500	110	ug/L		08/14/24 15:44	08/16/24 19:23	1
Selenium	<0.98		2.5	0.98	ug/L		08/14/24 15:44	08/16/24 19:23	1
Silver	<0.12		0.50	0.12	ug/L		08/14/24 15:44	08/16/24 19:23	1
Strontium	<0.64		4.0	0.64	ug/L		08/14/24 15:44	08/16/24 19:23	1
Thallium	<0.57		2.0	0.57	ug/L		08/14/24 15:44	08/16/24 19:23	1
Tin	<1.3		5.0	1.3	ug/L		08/14/24 15:44	08/16/24 19:23	1
Vanadium	<2.2		5.0	2.2	ug/L		08/14/24 15:44	08/16/24 19:23	1
Zinc	<6.9		20	6.9	ug/L		08/14/24 15:44	08/16/24 19:23	1

Lab Sample ID: MB 500-781453/1-A
Matrix: Water
Analysis Batch: 782199

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	45.9	J	50	13	ug/L		08/14/24 15:44	08/19/24 12:47	1
Sodium	<77		200	77	ug/L		08/14/24 15:44	08/19/24 12:47	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781453/2-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2130		ug/L		107	80 - 120
Antimony	500	533		ug/L		107	80 - 120
Arsenic	100	99.6		ug/L		100	80 - 120
Barium	500	559		ug/L		112	80 - 120
Beryllium	50.0	48.2		ug/L		96	80 - 120
Cadmium	50.0	52.5		ug/L		105	80 - 120
Calcium	10000	9100		ug/L		91	80 - 120
Chromium	200	207		ug/L		104	80 - 120
Cobalt	500	528		ug/L		106	80 - 120
Copper	250	268		ug/L		107	80 - 120
Iron	1000	1070		ug/L		107	80 - 120
Lead	100	110	^1+	ug/L		110	80 - 120
Lithium	100	102		ug/L		102	80 - 120
Magnesium	10000	10900		ug/L		109	80 - 120
Manganese	500	532		ug/L		106	80 - 120
Molybdenum	1000	1010		ug/L		101	80 - 120
Nickel	500	537		ug/L		107	80 - 120
Potassium	10000	11000		ug/L		110	80 - 120
Selenium	100	101		ug/L		101	80 - 120
Silver	50.0	52.1		ug/L		104	80 - 120
Strontium	1000	1080		ug/L		108	80 - 120
Thallium	100	107		ug/L		107	80 - 120
Tin	1000	1070		ug/L		107	80 - 120
Vanadium	500	521		ug/L		104	80 - 120
Zinc	500	526		ug/L		105	80 - 120

Lab Sample ID: LCS 500-781453/2-A
Matrix: Water
Analysis Batch: 782199

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	1070		ug/L		107	80 - 120
Sodium	10000	10500		ug/L		105	80 - 120

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 782080

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved
Prep Batch: 781453

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	<25		2000	2040		ug/L		102	75 - 125
Antimony	<1.3		500	514		ug/L		103	75 - 125
Arsenic	0.30	J	100	100		ug/L		100	75 - 125
Barium	850		500	1390		ug/L		108	75 - 125
Beryllium	<0.53		50.0	47.7		ug/L		95	75 - 125
Cadmium	<0.17		50.0	50.7		ug/L		101	75 - 125
Calcium	180000		10000	185000	4	ug/L		55	75 - 125
Chromium	<1.1		200	202		ug/L		101	75 - 125
Cobalt	<0.40		500	512		ug/L		102	75 - 125
Copper	1.4	J	250	256		ug/L		102	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 782080

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved
Prep Batch: 781453

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	<47		1000	1040		ug/L		104	75 - 125
Lead	<0.19	^1+	100	104	^1+	ug/L		104	75 - 125
Lithium	65		100	164		ug/L		100	75 - 125
Magnesium	13000		10000	23000		ug/L		99	75 - 125
Manganese	330		500	844		ug/L		103	75 - 125
Molybdenum	2.8	J	1000	1020		ug/L		101	75 - 125
Nickel	<0.63		500	510		ug/L		102	75 - 125
Potassium	600		10000	11200		ug/L		106	75 - 125
Selenium	<0.98		100	101		ug/L		101	75 - 125
Silver	<0.12		50.0	49.8		ug/L		100	75 - 125
Strontium	3500		1000	4390		ug/L		90	75 - 125
Thallium	<0.57		100	104		ug/L		104	75 - 125
Tin	<1.3		1000	1030		ug/L		103	75 - 125
Vanadium	<2.2		500	515		ug/L		103	75 - 125
Zinc	<6.9		500	505		ug/L		101	75 - 125

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 782199

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved
Prep Batch: 781453

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	230	B	1000	1200		ug/L		97	75 - 125
Sodium	130000		10000	138000	4	ug/L		71	75 - 125

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 782080

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved
Prep Batch: 781453

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	<25		2000	2110		ug/L		105	75 - 125	3	20
Antimony	<1.3		500	529		ug/L		106	75 - 125	3	20
Arsenic	0.30	J	100	103		ug/L		103	75 - 125	3	20
Barium	850		500	1440		ug/L		118	75 - 125	3	20
Beryllium	<0.53		50.0	50.2		ug/L		100	75 - 125	5	20
Cadmium	<0.17		50.0	52.0		ug/L		104	75 - 125	2	20
Calcium	180000		10000	191000	4	ug/L		107	75 - 125	3	20
Chromium	<1.1		200	210		ug/L		105	75 - 125	4	20
Cobalt	<0.40		500	529		ug/L		106	75 - 125	3	20
Copper	1.4	J	250	268		ug/L		107	75 - 125	5	20
Iron	<47		1000	1060		ug/L		106	75 - 125	2	20
Lead	<0.19	^1+	100	107	^1+	ug/L		107	75 - 125	3	20
Lithium	65		100	169		ug/L		105	75 - 125	3	20
Magnesium	13000		10000	23800		ug/L		107	75 - 125	3	20
Manganese	330		500	866		ug/L		108	75 - 125	3	20
Molybdenum	2.8	J	1000	1060		ug/L		106	75 - 125	4	20
Nickel	<0.63		500	528		ug/L		106	75 - 125	3	20
Potassium	600		10000	11600		ug/L		110	75 - 125	3	20
Selenium	<0.98		100	104		ug/L		104	75 - 125	3	20
Silver	<0.12		50.0	51.8		ug/L		104	75 - 125	4	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 782080

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved
Prep Batch: 781453

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Strontium	3500		1000	4560		ug/L		107	75 - 125	4	20
Thallium	<0.57		100	108		ug/L		108	75 - 125	3	20
Tin	<1.3		1000	1070		ug/L		107	75 - 125	4	20
Vanadium	<2.2		500	529		ug/L		106	75 - 125	3	20
Zinc	<6.9		500	523		ug/L		105	75 - 125	3	20

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 782199

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved
Prep Batch: 781453

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	230	B	1000	1280		ug/L		105	75 - 125	6	20
Sodium	130000		10000	146000	4	ug/L		152	75 - 125	6	20

Lab Sample ID: 500-254365-1 DU
Matrix: Water
Analysis Batch: 782080

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved
Prep Batch: 781453

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	<25			<25		ug/L				NC	20
Antimony	<1.3			<1.3		ug/L				NC	20
Arsenic	0.30	J		0.291	J	ug/L				4	20
Barium	850			867		ug/L				2	20
Beryllium	<0.53			<0.53		ug/L				NC	20
Cadmium	<0.17			<0.17		ug/L				NC	20
Calcium	180000			186000		ug/L				4	20
Chromium	<1.1			<1.1		ug/L				NC	20
Cobalt	<0.40			<0.40		ug/L				NC	20
Copper	1.4	J		1.39	J	ug/L				3	20
Iron	<47			<47		ug/L				NC	20
Lead	<0.19	^1+		<0.19	^1+	ug/L				NC	20
Lithium	65			67.4		ug/L				4	20
Magnesium	13000			13400		ug/L				2	20
Manganese	330			342		ug/L				4	20
Molybdenum	2.8	J		2.69	J	ug/L				3	20
Nickel	<0.63			<0.63		ug/L				NC	20
Potassium	600			609		ug/L				2	20
Selenium	<0.98			<0.98		ug/L				NC	20
Silver	<0.12			<0.12		ug/L				NC	20
Sodium	130000	B ^2		136000		ug/L				3	20
Strontium	3500			3590		ug/L				3	20
Thallium	<0.57			<0.57		ug/L				NC	20
Tin	<1.3			<1.3		ug/L				NC	20
Vanadium	<2.2			<2.2		ug/L				NC	20
Zinc	<6.9			<6.9		ug/L				NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254365-1 DU
Matrix: Water
Analysis Batch: 782199

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved
Prep Batch: 781453

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	230	B	216		ug/L		4	20
Sodium	130000		135000		ug/L		3	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-779469/3
Matrix: Water
Analysis Batch: 779469

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			08/01/24 11:48	1
Fluoride	<0.19		1.0	0.19	mg/L			08/01/24 11:48	1
Sulfate	<0.21		1.0	0.21	mg/L			08/01/24 11:48	1

Lab Sample ID: LCS 500-779469/4
Matrix: Water
Analysis Batch: 779469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.5		mg/L		98	90 - 110
Fluoride	20.0	19.9		mg/L		100	90 - 110
Sulfate	20.0	20.6		mg/L		103	90 - 110

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 779469

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	2.4		10.0	12.7		mg/L		104	80 - 120
Fluoride	<0.19		10.0	9.50		mg/L		95	80 - 120
Sulfate	2.4		10.0	12.1		mg/L		97	80 - 120

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 779469

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	2.4		10.0	12.7		mg/L		104	80 - 120	0	20
Fluoride	<0.19		10.0	9.55		mg/L		95	80 - 120	1	20
Sulfate	2.4		10.0	12.2		mg/L		98	80 - 120	1	20

Lab Sample ID: MB 500-779470/3
Matrix: Water
Analysis Batch: 779470

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.106	J	1.0	0.043	mg/L			08/01/24 11:48	1
Nitrite as N	<0.070		1.0	0.070	mg/L			08/01/24 11:48	1
Nitrate Nitrite as N	0.106	J	1.0	0.070	mg/L			08/01/24 11:48	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-779470/4
Matrix: Water
Analysis Batch: 779470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			20.0	20.2		mg/L		101	90 - 110		
Nitrite as N			20.0	20.1		mg/L		101	90 - 110		
Nitrate Nitrite as N			40.0	40.3		mg/L		101	90 - 110		

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 779470

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	<0.043	H	10.0	9.08	H	mg/L		91	80 - 120		
Nitrite as N	<0.070	H	10.0	11.9	H	mg/L		119	80 - 120		
Nitrate Nitrite as N	<0.070	H	20.0	21.0	H	mg/L		105	80 - 120		

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 779470

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.043	H	10.0	9.05	H	mg/L		91	80 - 120	0	20
Nitrite as N	<0.070	H	10.0	11.9	H	mg/L		119	80 - 120	0	20
Nitrate Nitrite as N	<0.070	H	20.0	21.0	H	mg/L		105	80 - 120	0	20

Lab Sample ID: MB 500-781355/74
Matrix: Water
Analysis Batch: 781355

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/15/24 06:20	1

Lab Sample ID: LCS 500-781355/75
Matrix: Water
Analysis Batch: 781355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			20.0	19.5		mg/L		98	90 - 110		

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 781355

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	260		200	438		mg/L		91	80 - 120		

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 781355

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	260		200	454		mg/L		99	80 - 120	4	20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780526/1-A
Matrix: Water
Analysis Batch: 780726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036	^1+	0.0050	0.0036	mg/L		08/08/24 13:35	08/09/24 10:59	1

Lab Sample ID: LCS 500-780526/2-A
Matrix: Water
Analysis Batch: 780726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0917	^1+	mg/L		92	90 - 110

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 781207

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA
Prep Batch: 780526

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.0036	F1	0.100	0.0766	F1	mg/L		77	90 - 110

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 781207

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA
Prep Batch: 780526

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.0036	F1	0.100	0.0744	F1	mg/L		74	90 - 110	3	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-781826/1-A
Matrix: Water
Analysis Batch: 782356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/16/24 11:19	08/16/24 14:49	1

Lab Sample ID: LCS 500-781826/2-A
Matrix: Water
Analysis Batch: 782356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.95		mg/L		97	90 - 110

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 782356

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA
Prep Batch: 781826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	<0.10	F1	2.00	1.90		mg/L		95	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 782356

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA
Prep Batch: 781826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	<0.10	F1	2.00	1.78	F1	mg/L		89	90 - 110	7	20

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780983/1-A
Matrix: Water
Analysis Batch: 783024

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^1-	0.050	0.024	mg/L		08/13/24 11:40	08/16/24 13:41	1

Lab Sample ID: LCS 500-780983/2-A
Matrix: Water
Analysis Batch: 783024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.425	^1- *-	mg/L		85	88 - 123

Lab Sample ID: MB 500-783635/1-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	0.0260	J	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:37	1

Lab Sample ID: LCS 500-783635/2-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.918		mg/L		92	88 - 123

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 783821

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.11	H B	1.00	0.948	H	mg/L		84	75 - 125

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 783821

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phosphorus as P	0.11	H B	1.00	0.939	H	mg/L		83	75 - 125	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-780451/28
Matrix: Water
Analysis Batch: 780451

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/07/24 17:20	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/07/24 17:20	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/07/24 17:20	1

Lab Sample ID: LCS 500-780451/29
Matrix: Water
Analysis Batch: 780451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	110		mg/L		110	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-779810/1
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			08/05/24 00:12	1

Lab Sample ID: LCS 500-779810/2
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 779810

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	920		250	1160		mg/L		94	75 - 125

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 779810

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	920		250	1200		mg/L		111	75 - 125	4	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-780106/1
Matrix: Water
Analysis Batch: 780106

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/06/24 13:36	1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 500-780106/2
Matrix: Water
Analysis Batch: 780106

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	187		mg/L		94	80 - 120

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 780106

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	2.2	J	100	106		mg/L		104	75 - 125

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 780106

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids	2.2	J	100	100		mg/L		98	75 - 125	6	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-779991/1
Matrix: Water
Analysis Batch: 779991

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			08/05/24 22:17	1

Lab Sample ID: LCS 500-779991/2
Matrix: Water
Analysis Batch: 779991

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.20		mg/L		88	85 - 115

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 779991

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.23		3.64	3.58		mg/L		98	75 - 125

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 779991

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.23		3.64	3.31		mg/L		91	75 - 125	8	20

Method: SM 5310C - TOC

Lab Sample ID: MB 500-781985/31
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/16/24 01:11	1

Lab Sample ID: LCS 500-781985/32
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.2		mg/L		102	86 - 116

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 781985

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	2.3		10.0	12.9		mg/L		105	75 - 125

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 781985

Client Sample ID: MW-5A_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	2.3		10.0	12.9		mg/L		105	75 - 125	0	20

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-781988/7
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			08/15/24 13:59	1

Lab Sample ID: LCS 500-781988/8
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Lab Sample ID: 500-254365-1 MS
Matrix: Water
Analysis Batch: 781988

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	2.8		10.0	12.5		mg/L		97	75 - 125

Method: SM 5310C - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: 500-254365-1 MSD
Matrix: Water
Analysis Batch: 781988

Client Sample ID: MW-5A_20240730
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dissolved Organic Carbon	2.8		10.0	12.6		mg/L		97	75 - 125	0	20

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254365-1

Client Sample ID: MW-5A_20240730

Lab Sample ID: 500-254365-1

Date Collected: 07/30/24 12:30

Matrix: Water

Date Received: 08/01/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2547	AJD	EET SSM	08/13/24 11:12
Dissolved	Analysis	1630		1	2565	CL	EET SSM	08/14/24 19:35
Total/NA	Prep	1630			2547	AJD	EET SSM	08/13/24 11:12
Total/NA	Analysis	1630		1	2565	CL	EET SSM	08/14/24 19:05
Dissolved	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 13:26
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 13:22
Dissolved	Prep	1638			2507	CL	EET SSM	08/05/24 14:37
Dissolved	Analysis	1638		1	2516	V1R	EET SSM	08/06/24 20:43
Total Recoverable	Prep	1638			2504	CL	EET SSM	08/05/24 14:37
Total Recoverable	Analysis	1638		1	2516	V1R	EET SSM	08/06/24 18:50
Dissolved	Prep	3005A			781453	S1Z	EET CHI	08/14/24 15:44 - 08/14/24 21:45 [1]
Dissolved	Analysis	6020B		1	782080	RN	EET CHI	08/16/24 19:27
Dissolved	Prep	3005A			781453	S1Z	EET CHI	08/14/24 15:44 - 08/14/24 21:45 [1]
Dissolved	Analysis	6020B		1	782199	RN	EET CHI	08/19/24 12:51
Total Recoverable	Prep	3005A			781451	S1Z	EET CHI	08/14/24 15:40 - 08/14/24 21:40 [1]
Total Recoverable	Analysis	6020B		1	782080	RN	EET CHI	08/16/24 20:35
Total Recoverable	Prep	3005A			781451	S1Z	EET CHI	08/14/24 15:40 - 08/14/24 21:40 [1]
Total Recoverable	Analysis	SM 2340B		1	782128	DAJ	EET CHI	08/19/24 09:57
Total/NA	Analysis	300.0		1	779469	NMB	EET CHI	08/01/24 12:18
Total/NA	Analysis	300.0		1	779470	NMB	EET CHI	08/01/24 12:18
Total/NA	Analysis	300.0		20	781355	W1T	EET CHI	08/15/24 06:50
Total/NA	Prep	Distill/CN			780526	AC	EET CHI	08/08/24 13:35 - 08/08/24 14:05 [1]
Total/NA	Analysis	335.4		1	781207	AC	EET CHI	08/10/24 12:03
Total/NA	Prep	Distill/Ammonia			781826	EB	EET CHI	08/16/24 11:19 - 08/16/24 12:19 [1]
Total/NA	Analysis	350.1		1	782356	KF	EET CHI	08/16/24 14:50
Total/NA	Prep	365.2/365.3/365			783635	ER	EET CHI	08/28/24 09:30 - 08/28/24 13:22 [1]
Total/NA	Analysis	365.1		1	783821	KF	EET CHI	08/29/24 08:38
Total/NA	Analysis	SM 2320B		1	780451	SO	EET CHI	08/07/24 19:28
Total/NA	Analysis	SM 2520B		1	782060	TR	EET CHI	08/19/24 08:00
Total/NA	Analysis	SM 2540C		1	779810	CLB	EET CHI	08/05/24 00:24
Total/NA	Analysis	SM 2540D		1	780106	SO	EET CHI	08/06/24 14:04 - 08/06/24 14:05 [1]
Total/NA	Analysis	SM 4500 S2 F		1	779991	CLB	EET CHI	08/05/24 22:53 - 08/05/24 22:56 [1]
Dissolved	Analysis	SM 5310C		1	781988	TR	EET CHI	08/15/24 21:27
Total/NA	Analysis	SM 5310C		1	781985	TR	EET CHI	08/16/24 06:47

Client Sample ID: MW-5A_20240730_FBLL

Lab Sample ID: 500-254365-2

Date Collected: 07/30/24 12:30

Matrix: Water

Date Received: 08/01/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 13:30

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254365-1

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254365-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1894	COC No: 500-126351-50241 37
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254365
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other:
Email: AZeidler@whitepinecu com	WO #:			500-254365 COC
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, 3500_CR_B, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	3500_CR_B - Dissolved Chromium, Hex (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	N		
1	MW-5A_20240730	07-30-24	12:30	G	Water		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	54	
2	MW-5A_20240730_FBLL	07-30-24	12:30	G	Water		✓								✓						6	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	7/30/24 2100	MSG		7/30/24 2100	MSG
2		7/31/24 1200	MSG	4051 7962 1894	7/31/24 1200	fedex
3		Date/Time	Company	Stephanie Hernandez	8/1/24 0950	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 2.4+2.3, 1.7+1.6, 2.7+2.6

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1894	COC No: 500-126351-50241 38
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan ~~IN~~ MS	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254365
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N - None; CB - ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
1 MW-5A_20240730	07-30-24	12:30	G	Water		✓	✓	3	
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: fedex Priority overnight		
Relinquished by:	Date/Time: 7/30/24 2100	Company: MSG	Received by:	Date/Time: 7/30/24 2100	Company: MSG
Relinquished by:	Date/Time: 7/31/24 1200	Company: MSG	Received by: 4051 7962 1894	Date/Time: 7/31/24 1200	Company: fedex
Relinquished by:	Date/Time:	Company:	Received by: Stephanie Hernandez	Date/Time: 8/1/24 0960	Company: EEIA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No: | Cooler Temperature(s) °C and Other Remarks:


JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-6200
INV:
PO:
REF:
DEPT:
RMA:
FedEx
Express
TRK# 0221 4051 7962 1872
RETURNS MON-SAT
PRIORITY OVERNIGHT
THU - 01 AUG AA
60484
IL-US
ORD
XP JOTA


JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808
500-254365 Waybi
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-6200
INV:
PO:
REF:
DEPT:
RMA:
FedEx
Express
FedEx
TRK# 0221 4051 7962 1894
THU - 01 AUG AA
PRIORITY OVERNIGHT
60484
IL-US
ORD
XP JOTA


JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808
Part # 159469-434 MTW EXP 01/25
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
REF:
INV:
PO:
DEPT:
RMA:
FedEx
Express
THU - 01 AUG AA
PRIORITY OVERNIGHT
FedEx
TRK# 0221 4051 7962 1883
60484
IL-US
ORD
XP JOTA

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254365-1

Login Number: 254365
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3,1.6,2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254365-1

Login Number: 254365
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 08/05/24 11:24 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Refer to Job Narrative for details.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254365 Field Sheet

Date:	8/5/2024
End Time:	13:56
KI Paper Lot:	na
Analyst:	V

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	19628
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-254365-B-1 MS	A	Y	.8	2	
500-254365-A-1 MS	A	Y	.8	2	
500-254365-B-1 MS	A	Y	.8	2	
500-254365-A-1 MS	A	Y	.8	2	
500-254365-D-1 MS	A	Y	.8	2	
500-254365-C-1 MS	A	Y	.8	2	
500-254365-B-2 MSD	A	Y	.8	2	
500-254365-A-2 MSD	A	Y	.8	2	
500-254365-C-1 MSD	A	Y	.8	2	
500-254365-D-1 MSD	A	Y	.8	2	
500-254365-A-2 MSD	A	Y	.8	2	
500-254365-B-2 MSD	A	Y	.8	2	
500-254365-B-2 MSD	A	Y	.8	2	
500-254365-A-2 MSD	A	Y	.8	2	
500-254365-A-1 MSD	A	Y	.8	2	
500-254365-B-1 MSD	A	Y	.8	2	
500-254365-C-1	A	Y	.8	2	
500-254365-D-1	A	Y	.8	2	

8/5/24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

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JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254366-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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Authorized for release by
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Job Narrative
500-254366-1

Receipt
The samples were received on 08/01/24 09:50. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4º C.

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: FB-01-GW_20240730 (500-254366-1) and FB-01-GW_20240730_FBLL (500-254366-2). Methyl Hg

Metals
Method 6020B: The initial low level calibration verification (ICVL) result for batch 500-782080 was above the upper control limit. The affected analyte is: Lead. Sample results were below the reporting limit, and have been reported as qualified data.

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- CCB (Incomplete Integration)

Method 1638: The continuing calibration blank (CCB) for analytical batch 350-2539 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 300.0: The method blank for analytical batch 500-779470 contained Nitrate as N and Nitrate Nitrite as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 335.4: The initial calibration verification (ICV) associated with batch 500-780726 recovered above the upper control limit for Cyanide, Total. The samples associated with this ICV were rerun in another batch and only the batch MB and LCS are impacted for the affected analyte; therefore, the data have been reported. The associated samples are impacted: (ICV 500-780526/27-A), (LCS 500-780526/2-A) and (MB 500-780526/1-A).

Method 365.1: The method blank for preparation batch 500-783635 and analytical batch 500-783821 contained Phosphorus as P above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 365.1: Reanalysis of the following samples was performed outside of the analytical holding time due to QC failures and low bias during initial analysis. Reanalysis obtained results above our MDL but below our RL. Therefore, initial analysis has been confirmed and reported as Primary: FB-01-GW_20240730 (500-254366-1).

Method 365.1: Reanalysis performed outside analytical holding time obtained results above MDL but below RL. Therefore, initial analysis has been confirmed and reported as Primary: FB-01-GW_20240730 (500-254366-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254366-1

Client Sample ID: FB-01-GW_20240730 — Lab Sample ID: 500-254366-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	25	J	100	25	ug/L	1		6020B	Total Recoverable
Barium	1.9	J	2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	30	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	300		200	44	ug/L	1		6020B	Total Recoverable
Magnesium	66	J	200	49	ug/L	1		6020B	Total Recoverable
Sodium	540		200	77	ug/L	1		6020B	Total Recoverable
Hardness as calcium carbonate	1.0		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Salinity	>0.33		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	6.0	J	10	4.3	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-01-GW_20240730_FBLL — Lab Sample ID: 500-254366-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.24	J	0.50	0.20	ng/L	1		1631E	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254366-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254366-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254366-1	FB-01-GW_20240730	Water	07/30/24 18:45	08/01/24 09:50
500-254366-2	FB-01-GW_20240730_FBLL	Water	07/30/24 18:45	08/01/24 09:50

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254366-1

Client Sample ID: FB-01-GW_20240730

Date Collected: 07/30/24 18:45
Date Received: 08/01/24 09:50

Lab Sample ID: 500-254366-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 23:38	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 17:10	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 14:50	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**25**	**J**	100	25	ug/L		08/14/24 15:44	08/16/24 19:43	1
Antimony	<1.3		3.0	1.3	ug/L		08/14/24 15:44	08/16/24 19:43	1
Arsenic	<0.23		1.0	0.23	ug/L		08/14/24 15:44	08/16/24 19:43	1
Barium	**1.9**	**J**	2.5	0.73	ug/L		08/14/24 15:44	08/16/24 19:43	1
Beryllium	<0.53		1.0	0.53	ug/L		08/14/24 15:44	08/16/24 19:43	1
Boron	**30**	**J B**	50	13	ug/L		08/14/24 15:44	08/19/24 13:07	1
Cadmium	<0.17		0.50	0.17	ug/L		08/14/24 15:44	08/16/24 19:43	1
Calcium	**300**		200	44	ug/L		08/14/24 15:44	08/16/24 19:43	1
Chromium	<1.1		5.0	1.1	ug/L		08/14/24 15:44	08/16/24 19:43	1
Cobalt	<0.40		1.0	0.40	ug/L		08/14/24 15:44	08/16/24 19:43	1
Copper	<0.50		2.0	0.50	ug/L		08/14/24 15:44	08/16/24 19:43	1
Iron	<47		100	47	ug/L		08/14/24 15:44	08/16/24 19:43	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/14/24 15:44	08/16/24 19:43	1
Lithium	<2.5		10	2.5	ug/L		08/14/24 15:44	08/16/24 19:43	1
Magnesium	**66**	**J**	200	49	ug/L		08/14/24 15:44	08/16/24 19:43	1
Manganese	<0.79		2.5	0.79	ug/L		08/14/24 15:44	08/16/24 19:43	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/14/24 15:44	08/16/24 19:43	1
Nickel	<0.63		2.0	0.63	ug/L		08/14/24 15:44	08/16/24 19:43	1
Potassium	<110		500	110	ug/L		08/14/24 15:44	08/16/24 19:43	1
Selenium	<0.98		2.5	0.98	ug/L		08/14/24 15:44	08/16/24 19:43	1
Silver	<0.12		0.50	0.12	ug/L		08/14/24 15:44	08/16/24 19:43	1
Sodium	**540**		200	77	ug/L		08/14/24 15:44	08/19/24 13:07	1
Strontium	<0.64		4.0	0.64	ug/L		08/14/24 15:44	08/16/24 19:43	1
Thallium	<0.57		2.0	0.57	ug/L		08/14/24 15:44	08/16/24 19:43	1
Tin	<1.3		5.0	1.3	ug/L		08/14/24 15:44	08/16/24 19:43	1
Vanadium	<2.2		5.0	2.2	ug/L		08/14/24 15:44	08/16/24 19:43	1
Zinc	<6.9		20	6.9	ug/L		08/14/24 15:44	08/16/24 19:43	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**1.0**		0.91	0.46	mg/L		08/14/24 15:44	08/19/24 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			08/01/24 13:34	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			08/01/24 13:34	1
Chloride (EPA 300.0)	<0.12		1.0	0.12	mg/L			08/01/24 13:34	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/01/24 13:34	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			08/01/24 13:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254366-1

Client Sample ID: FB-01-GW_20240730
Date Collected: 07/30/24 18:45
Date Received: 08/01/24 09:50

Lab Sample ID: 500-254366-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/01/24 13:34	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			08/01/24 13:34	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/08/24 13:35	08/10/24 12:32	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/16/24 11:19	08/16/24 14:51	1
Phosphorus as P (EPA 365.1)	<0.024	^1- *-	0.050	0.024	mg/L		08/13/24 11:40	08/16/24 13:43	1
Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			08/07/24 19:38	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/07/24 19:38	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/07/24 19:38	1
Salinity (SM 2520B)	**>0.33**		0.33	0.33	psu			08/19/24 08:00	1
Total Dissolved Solids (SM 2540C)	**6.0**	**J**	10	4.3	mg/L			08/05/24 00:32	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			08/06/24 13:55	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			08/05/24 23:03	1
Total Organic Carbon (SM 5310C)	<0.47		1.0	0.47	mg/L			08/15/24 22:51	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254366-1

Client Sample ID: FB-01-GW_20240730_FBLL

Lab Sample ID: 500-254366-2

Date Collected: 07/30/24 18:45
Matrix: Water
Date Received: 08/01/24 09:50

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24	J	0.50	0.20	ng/L			08/08/24 17:15	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254366-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total Recoverable	Water	1638	
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Prep Batch: 2525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	1630	
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 2531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	1631E	
500-254366-2	FB-01-GW_20240730_FBLL	Total/NA	Water	1631E	
MB 350-2531/17	Method Blank	Total/NA	Water	1631E	
MB 350-2531/18	Method Blank	Total/NA	Water	1631E	
MB 350-2531/19	Method Blank	Total/NA	Water	1631E	
LCS 350-2531/28	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2531/29	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	1630	2525
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	2525
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	2525
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	2525

Analysis Batch: 2539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total Recoverable	Water	1638	2524
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	2524
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	2524
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	2524
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2524

Prep Batch: 781453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total Recoverable	Water	3005A	
MB 500-781453/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781453/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 782080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total Recoverable	Water	6020B	781453

Metals (Continued)

Analysis Batch: 782080 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-781453/1-A	Method Blank	Total Recoverable	Water	6020B	781453
LCS 500-781453/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781453

Analysis Batch: 782129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total Recoverable	Water	SM 2340B	781453

Analysis Batch: 782199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total Recoverable	Water	6020B	781453
MB 500-781453/1-A	Method Blank	Total Recoverable	Water	6020B	781453
LCS 500-781453/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781453

General Chemistry

Analysis Batch: 779469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	300.0	
MB 500-779469/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779469/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	300.0	
MB 500-779470/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779470/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	SM 2540C	
MB 500-779810/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779810/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-254366-1 DU	FB-01-GW_20240730	Total/NA	Water	SM 2540C	

Analysis Batch: 779991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	SM 4500 S2 F	
MB 500-779991/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-779991/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 780106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	SM 2540D	
MB 500-780106/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-780106/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 780451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	SM 2320B	
MB 500-780451/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-780451/29	Lab Control Sample	Total/NA	Water	SM 2320B	

General Chemistry

Prep Batch: 780526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	Distill/CN	
MB 500-780526/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780526/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-780526/1-A	Method Blank	Total/NA	Water	335.4	780526
LCS 500-780526/2-A	Lab Control Sample	Total/NA	Water	335.4	780526

Prep Batch: 780983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	365.2/365.3/365	
MB 500-780983/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780983/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 781207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	335.4	780526

Prep Batch: 781826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	Distill/Ammonia	
MB 500-781826/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-781826/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 781985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	SM 5310C	
MB 500-781985/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-781985/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 782060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	SM 2520B	

Analysis Batch: 782356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	350.1	781826
MB 500-781826/1-A	Method Blank	Total/NA	Water	350.1	781826
LCS 500-781826/2-A	Lab Control Sample	Total/NA	Water	350.1	781826

Analysis Batch: 783024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254366-1	FB-01-GW_20240730	Total/NA	Water	365.1	780983
MB 500-780983/1-A	Method Blank	Total/NA	Water	365.1	780983
LCS 500-780983/2-A	Lab Control Sample	Total/NA	Water	365.1	780983

Prep Batch: 783635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254366-1

General Chemistry

Analysis Batch: 783821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.1	783635
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.1	783635

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2525/1-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:32	1

Lab Sample ID: MB 350-2525/28-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:43	1

Lab Sample ID: MB 350-2525/29-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:53	1

Lab Sample ID: LCS 350-2525/2-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.937		ng/L		94	65 - 135

Lab Sample ID: LCSD 350-2525/3-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.952		ng/L		95	65 - 135	2	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2531/17
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 13:47	1

Lab Sample ID: MB 350-2531/18
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 13:51	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2531/19
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 13:55	1

Lab Sample ID: LCS 350-2531/28
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.74		ng/L		95	77 - 123

Lab Sample ID: LCSD 350-2531/29
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.80		ng/L		96	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2524/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0219	J	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:12	1

Lab Sample ID: MB 350-2524/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:15	1

Lab Sample ID: LCS 350-2524/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.3		ug/L		89	85 - 115

Lab Sample ID: LCSD 350-2524/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781453/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/14/24 15:44	08/16/24 19:23	1
Antimony	<1.3		3.0	1.3	ug/L		08/14/24 15:44	08/16/24 19:23	1
Arsenic	<0.23		1.0	0.23	ug/L		08/14/24 15:44	08/16/24 19:23	1
Barium	<0.73		2.5	0.73	ug/L		08/14/24 15:44	08/16/24 19:23	1
Beryllium	<0.53		1.0	0.53	ug/L		08/14/24 15:44	08/16/24 19:23	1
Cadmium	<0.17		0.50	0.17	ug/L		08/14/24 15:44	08/16/24 19:23	1
Calcium	<44		200	44	ug/L		08/14/24 15:44	08/16/24 19:23	1
Chromium	<1.1		5.0	1.1	ug/L		08/14/24 15:44	08/16/24 19:23	1
Cobalt	<0.40		1.0	0.40	ug/L		08/14/24 15:44	08/16/24 19:23	1
Copper	<0.50		2.0	0.50	ug/L		08/14/24 15:44	08/16/24 19:23	1
Iron	<47		100	47	ug/L		08/14/24 15:44	08/16/24 19:23	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/14/24 15:44	08/16/24 19:23	1
Lithium	<2.5		10	2.5	ug/L		08/14/24 15:44	08/16/24 19:23	1
Magnesium	<49		200	49	ug/L		08/14/24 15:44	08/16/24 19:23	1
Manganese	<0.79		2.5	0.79	ug/L		08/14/24 15:44	08/16/24 19:23	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/14/24 15:44	08/16/24 19:23	1
Nickel	<0.63		2.0	0.63	ug/L		08/14/24 15:44	08/16/24 19:23	1
Potassium	<110		500	110	ug/L		08/14/24 15:44	08/16/24 19:23	1
Selenium	<0.98		2.5	0.98	ug/L		08/14/24 15:44	08/16/24 19:23	1
Silver	<0.12		0.50	0.12	ug/L		08/14/24 15:44	08/16/24 19:23	1
Strontium	<0.64		4.0	0.64	ug/L		08/14/24 15:44	08/16/24 19:23	1
Thallium	<0.57		2.0	0.57	ug/L		08/14/24 15:44	08/16/24 19:23	1
Tin	<1.3		5.0	1.3	ug/L		08/14/24 15:44	08/16/24 19:23	1
Vanadium	<2.2		5.0	2.2	ug/L		08/14/24 15:44	08/16/24 19:23	1
Zinc	<6.9		20	6.9	ug/L		08/14/24 15:44	08/16/24 19:23	1

Lab Sample ID: MB 500-781453/1-A
Matrix: Water
Analysis Batch: 782199

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	45.9	J	50	13	ug/L		08/14/24 15:44	08/19/24 12:47	1
Sodium	<77		200	77	ug/L		08/14/24 15:44	08/19/24 12:47	1

Lab Sample ID: LCS 500-781453/2-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2130		ug/L		107	80 - 120
Antimony	500	533		ug/L		107	80 - 120
Arsenic	100	99.6		ug/L		100	80 - 120
Barium	500	559		ug/L		112	80 - 120
Beryllium	50.0	48.2		ug/L		96	80 - 120
Cadmium	50.0	52.5		ug/L		105	80 - 120
Calcium	10000	9100		ug/L		91	80 - 120
Chromium	200	207		ug/L		104	80 - 120
Cobalt	500	528		ug/L		106	80 - 120
Copper	250	268		ug/L		107	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781453/2-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1000	1070		ug/L		107	80 - 120
Lead	100	110	^1+	ug/L		110	80 - 120
Lithium	100	102		ug/L		102	80 - 120
Magnesium	10000	10900		ug/L		109	80 - 120
Manganese	500	532		ug/L		106	80 - 120
Molybdenum	1000	1010		ug/L		101	80 - 120
Nickel	500	537		ug/L		107	80 - 120
Potassium	10000	11000		ug/L		110	80 - 120
Selenium	100	101		ug/L		101	80 - 120
Silver	50.0	52.1		ug/L		104	80 - 120
Strontium	1000	1080		ug/L		108	80 - 120
Thallium	100	107		ug/L		107	80 - 120
Tin	1000	1070		ug/L		107	80 - 120
Vanadium	500	521		ug/L		104	80 - 120
Zinc	500	526		ug/L		105	80 - 120

Lab Sample ID: LCS 500-781453/2-A
Matrix: Water
Analysis Batch: 782199

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	1070		ug/L		107	80 - 120
Sodium	10000	10500		ug/L		105	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-779469/3
Matrix: Water
Analysis Batch: 779469

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			08/01/24 11:48	1
Chloride	<0.12		1.0	0.12	mg/L			08/01/24 11:48	1
Fluoride	<0.19		1.0	0.19	mg/L			08/01/24 11:48	1
Sulfate	<0.21		1.0	0.21	mg/L			08/01/24 11:48	1

Lab Sample ID: LCS 500-779469/4
Matrix: Water
Analysis Batch: 779469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.5		mg/L		98	90 - 110
Chloride	20.0	19.3		mg/L		97	90 - 110
Fluoride	20.0	19.9		mg/L		100	90 - 110
Sulfate	20.0	20.6		mg/L		103	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-779470/3
Matrix: Water
Analysis Batch: 779470

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.106	J	1.0	0.043	mg/L			08/01/24 11:48	1
Nitrite as N	<0.070		1.0	0.070	mg/L			08/01/24 11:48	1
Nitrate Nitrite as N	0.106	J	1.0	0.070	mg/L			08/01/24 11:48	1

Lab Sample ID: LCS 500-779470/4
Matrix: Water
Analysis Batch: 779470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	20.2		mg/L		101	90 - 110
Nitrite as N	20.0	20.1		mg/L		101	90 - 110
Nitrate Nitrite as N	40.0	40.3		mg/L		101	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780526/1-A
Matrix: Water
Analysis Batch: 780726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036	^1+	0.0050	0.0036	mg/L		08/08/24 13:35	08/09/24 10:59	1

Lab Sample ID: LCS 500-780526/2-A
Matrix: Water
Analysis Batch: 780726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0917	^1+	mg/L		92	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-781826/1-A
Matrix: Water
Analysis Batch: 782356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/16/24 11:19	08/16/24 14:49	1

Lab Sample ID: LCS 500-781826/2-A
Matrix: Water
Analysis Batch: 782356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.95		mg/L		97	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780983/1-A
Matrix: Water
Analysis Batch: 783024

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^1-	0.050	0.024	mg/L		08/13/24 11:40	08/16/24 13:41	1

Lab Sample ID: LCS 500-780983/2-A
Matrix: Water
Analysis Batch: 783024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.425	^1- *-	mg/L		85	88 - 123

Lab Sample ID: MB 500-783635/1-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	0.0260	J	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:37	1

Lab Sample ID: LCS 500-783635/2-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.918		mg/L		92	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-780451/28
Matrix: Water
Analysis Batch: 780451

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/07/24 17:20	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/07/24 17:20	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/07/24 17:20	1

Lab Sample ID: LCS 500-780451/29
Matrix: Water
Analysis Batch: 780451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	110		mg/L		110	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-779810/1
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			08/05/24 00:12	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 500-779810/2
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Lab Sample ID: 500-254366-1 DU
Matrix: Water
Analysis Batch: 779810

Client Sample ID: FB-01-GW_20240730
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	6.0	J	6.00	J	mg/L		0	5

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-780106/1
Matrix: Water
Analysis Batch: 780106

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/06/24 13:36	1

Lab Sample ID: LCS 500-780106/2
Matrix: Water
Analysis Batch: 780106

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	187		mg/L		94	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-779991/1
Matrix: Water
Analysis Batch: 779991

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			08/05/24 22:17	1

Lab Sample ID: LCS 500-779991/2
Matrix: Water
Analysis Batch: 779991

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.20		mg/L		88	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-781985/7
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/15/24 13:59	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 500-781985/8
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254366-1

Client Sample ID: FB-01-GW_20240730

Lab Sample ID: 500-254366-1

Date Collected: 07/30/24 18:45

Matrix: Water

Date Received: 08/01/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Total/NA	Analysis	1630		1	2538	CL	EET SSM	08/08/24 23:38
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 17:10
Total Recoverable	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Total Recoverable	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 14:50
Total Recoverable	Prep	3005A			781453	S1Z	EET CHI	08/14/24 15:44 - 08/14/24 21:45 [1]
Total Recoverable	Analysis	6020B		1	782080	RN	EET CHI	08/16/24 19:43
Total Recoverable	Prep	3005A			781453	S1Z	EET CHI	08/14/24 15:44 - 08/14/24 21:45 [1]
Total Recoverable	Analysis	6020B		1	782199	RN	EET CHI	08/19/24 13:07
Total Recoverable	Prep	3005A			781453	S1Z	EET CHI	08/14/24 15:44 - 08/14/24 21:45 [1]
Total Recoverable	Analysis	SM 2340B		1	782129	DAJ	EET CHI	08/19/24 09:57
Total/NA	Analysis	300.0		1	779469	NMB	EET CHI	08/01/24 13:34
Total/NA	Analysis	300.0		1	779470	NMB	EET CHI	08/01/24 13:34
Total/NA	Prep	Distill/CN			780526	AC	EET CHI	08/08/24 13:35 - 08/08/24 14:05 [1]
Total/NA	Analysis	335.4		1	781207	AC	EET CHI	08/10/24 12:32
Total/NA	Prep	Distill/Ammonia			781826	EB	EET CHI	08/16/24 11:19 - 08/16/24 12:19 [1]
Total/NA	Analysis	350.1		1	782356	KF	EET CHI	08/16/24 14:51
Total/NA	Prep	365.2/365.3/365			780983	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:46 [1]
Total/NA	Analysis	365.1		1	783024	LP	EET CHI	08/16/24 13:43
Total/NA	Analysis	SM 2320B		1	780451	SO	EET CHI	08/07/24 19:38
Total/NA	Analysis	SM 2520B		1	782060	TR	EET CHI	08/19/24 08:00
Total/NA	Analysis	SM 2540C		1	779810	CLB	EET CHI	08/05/24 00:32
Total/NA	Analysis	SM 2540D		1	780106	SO	EET CHI	08/06/24 13:55 - 08/06/24 13:57 [1]
Total/NA	Analysis	SM 4500 S2 F		1	779991	CLB	EET CHI	08/05/24 23:03 - 08/05/24 23:06 [1]
Total/NA	Analysis	SM 5310C		1	781985	TR	EET CHI	08/15/24 22:51

Client Sample ID: FB-01-GW_20240730_FBLL

Lab Sample ID: 500-254366-2

Date Collected: 07/30/24 18:45

Matrix: Water

Date Received: 08/01/24 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 17:15

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254366-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1840	COC No: 500-126351-50241 83
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-254366
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

Analysis Requested

Preservation Codes
S - H2SO4
N - None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A - HCL

Other

500-254366 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
1	FB-01-GW_20240730	07-30-24	1845	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	~~✓~~	~~✓~~	~~✓~~		14	
2	FB-01-GW-20240730_FBLL	07-30-24	1845	G	Water										✓				MS		2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

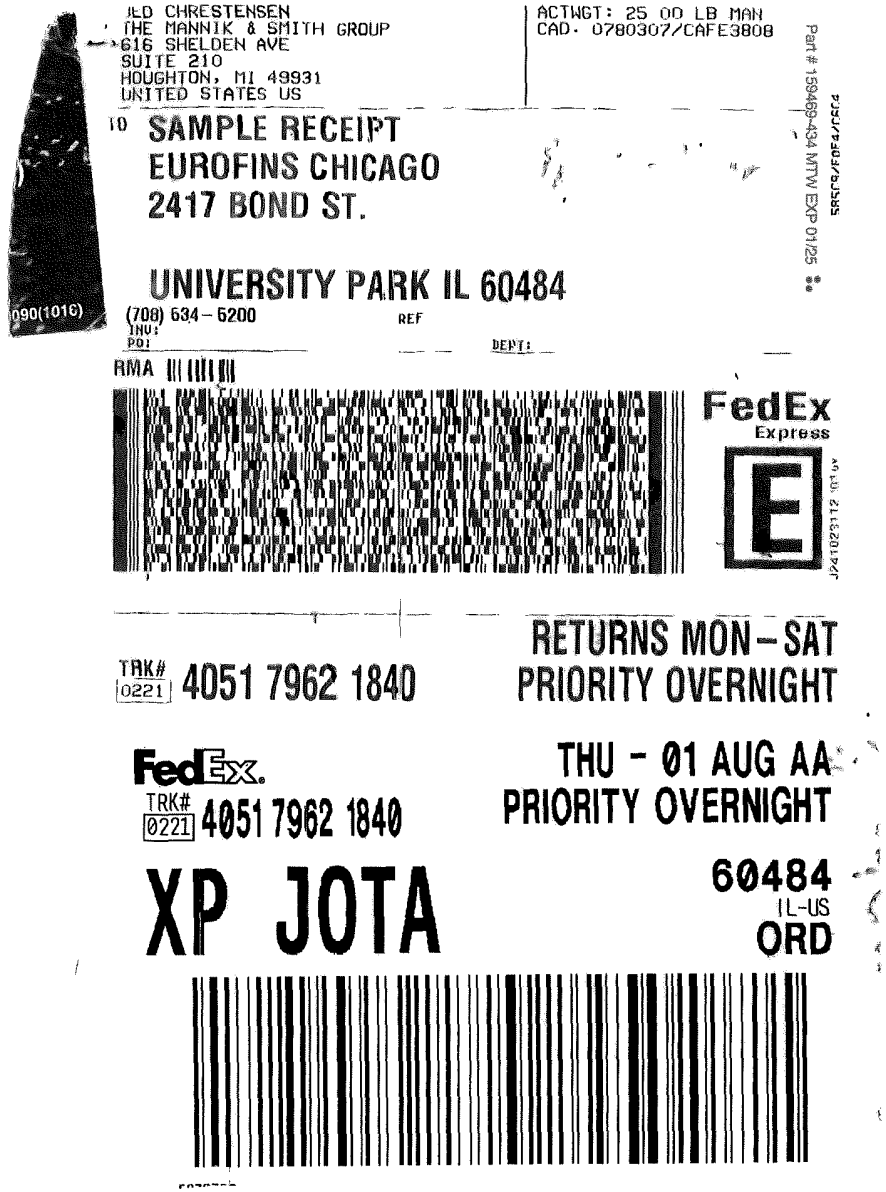
Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: fedex priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	7/30/24 2100	MSG		7/30/24 2100	MSG
2		7/31/24 1200	MSG	4051 7962 1840	7/31/24 1200	Fedex
3				Stephanie Hernandez	0450	EEA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.5+1.4



500-254366 Waybi

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254366-1

Login Number: 254366
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254366-1

Login Number: 254366
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 08/05/24 11:24 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Refer to Job Narrative for details.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254366 Field Sheet

Date:	8/5/2024
End Time:	1330
KI Paper Lot:	na
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	19628
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-254366-A-1	A	Y	.8	2	
500-254366-B-1	A	Y	.8	2	
500-254366-A-2	A	Y	.8	2	
500-254366-B-2	A	Y	.8	2	

8/5 JM

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/29/2024 2:16:47 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254423-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/29/2024 2:16:47 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254423-1

Receipt
The samples were received on 08/02/24 09:55. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3º C.

Metals
Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- CCB (Incomplete Integration)

Method 1638: The continuing calibration blank (CCB) for analytical batch 350-2539 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The continuing calibration verification (CCV) associated with batch 500-779674 recovered above the upper control limit for Chloride. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated samples are impacted: ARC-02_20240731 (500-254423-1) and (CCV 500-779674/1).

Method 300.0: The method blank for analytical batch 500-779674 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The following sample was received outside of holding time: ARC-02_20240731 (500-254423-1).

Method 300.0: The continuing calibration verification (CCV) associated with batch 500-779675 recovered below the lower control limit for Nitrate as N. Only the MB and LCS in the batch were bracketed with the failing CCV, therefore, the batch MB and LCS associated with the CCV have been reported.

Method 335.4: The initial calibration verification (ICV) associated with batch 500-780726 recovered above the upper control limit for Cyanide, Total. The samples associated with this ICV were rerun in another batch and only the batch MB and LCS are impacted for the affected analyte; therefore, the data have been reported. The associated samples are impacted: (ICV 500-780526/27-A), (LCS 500-780526/2-A) and (MB 500-780526/1-A).

Method 365.1: The method blank for preparation batch 500-783635 and analytical batch 500-783821 contained Phosphorus as P above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 365.1: Reanalysis of the following sample was performed outside of the analytical holding time - re-preparation to confirm initial results. : ARC-02_20240731 (500-254423-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254423-1

Client Sample ID: ARC-02_20240731

Lab Sample ID: 500-254423-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.077		0.050	0.022	ng/L	1		1630	Total/NA
Methyl Mercury	0.037	J	0.050	0.022	ng/L	1		1630	Dissolved
Mercury	1.8		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	1.2		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.15	B	0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.10	B	0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	470		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	1.1		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	36		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	33	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	21000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	0.63	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	5.7		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	2500		100	47	ug/L	1		6020B	Total Recoverable
Lead	0.27	J	0.50	0.19	ug/L	1		6020B	Total Recoverable
Magnesium	4700		200	49	ug/L	1		6020B	Total Recoverable
Manganese	310		2.5	0.79	ug/L	1		6020B	Total Recoverable
Nickel	0.99	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	1200		500	110	ug/L	1		6020B	Total Recoverable
Sodium	2000	B	200	77	ug/L	1		6020B	Total Recoverable
Strontium	80		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	2.2	J	5.0	2.2	ug/L	1		6020B	Total Recoverable
Aluminum	51	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.94	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	32		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	23	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	22000		200	44	ug/L	1		6020B	Dissolved
Cobalt	0.40	J	1.0	0.40	ug/L	1		6020B	Dissolved
Copper	4.7		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	950		100	47	ug/L	1		6020B	Dissolved
Magnesium	4600		200	49	ug/L	1		6020B	Dissolved
Manganese	240		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1100		500	110	ug/L	1		6020B	Dissolved
Sodium	2000	B	200	77	ug/L	1		6020B	Dissolved
Strontium	79		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	72		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	0.40	J B	1.0	0.12	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: ARC-02_20240731 (Continued)

Lab Sample ID: 500-254423-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.19	J	1.0	0.19	mg/L	1		300.0	Total/NA
Phosphorus as P	0.073	H B	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	74		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	74		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	>0.33		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	98		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	13		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	15		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	15		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: ARC-02_20240731_FBLL

Lab Sample ID: 500-254423-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254423-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254423-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254423-1	ARC-02_20240731	Water	07/31/24 08:30	08/02/24 09:55
500-254423-2	ARC-02_20240731_FBLL	Water	07/31/24 08:30	08/02/24 09:55

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254423-1

Client Sample ID: ARC-02_20240731
Date Collected: 07/31/24 08:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254423-1
Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	0.077		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 20:55	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	0.037	J	0.050	0.022	ng/L		08/08/24 12:00	08/08/24 21:05	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.8		0.50	0.20	ng/L			08/08/24 18:54	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.2		0.50	0.20	ng/L			08/08/24 18:58	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.15	B	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 15:33	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.10	B	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:41	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	470		100	25	ug/L		08/15/24 09:25	08/19/24 18:38	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 09:25	08/19/24 18:38	1
Arsenic	1.1		1.0	0.23	ug/L		08/15/24 09:25	08/19/24 18:38	1
Barium	36		2.5	0.73	ug/L		08/15/24 09:25	08/19/24 18:38	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 09:25	08/19/24 18:38	1
Boron	33	J B	50	13	ug/L		08/15/24 09:25	08/20/24 15:53	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 09:25	08/19/24 18:38	1
Calcium	21000		200	44	ug/L		08/15/24 09:25	08/19/24 18:38	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 09:25	08/19/24 18:38	1
Cobalt	0.63	J	1.0	0.40	ug/L		08/15/24 09:25	08/19/24 18:38	1
Copper	5.7		2.0	0.50	ug/L		08/15/24 09:25	08/19/24 18:38	1
Iron	2500		100	47	ug/L		08/15/24 09:25	08/19/24 18:38	1
Lead	0.27	J	0.50	0.19	ug/L		08/15/24 09:25	08/19/24 18:38	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 09:25	08/19/24 18:38	1
Magnesium	4700		200	49	ug/L		08/15/24 09:25	08/19/24 18:38	1
Manganese	310		2.5	0.79	ug/L		08/15/24 09:25	08/19/24 18:38	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 09:25	08/19/24 18:38	1
Nickel	0.99	J	2.0	0.63	ug/L		08/15/24 09:25	08/19/24 18:38	1
Potassium	1200		500	110	ug/L		08/15/24 09:25	08/19/24 18:38	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 09:25	08/19/24 18:38	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 09:25	08/19/24 18:38	1
Sodium	2000	B	200	77	ug/L		08/15/24 09:25	08/19/24 18:38	1
Strontium	80		4.0	0.64	ug/L		08/15/24 09:25	08/19/24 18:38	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 09:25	08/19/24 18:38	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 09:25	08/19/24 18:38	1
Vanadium	2.2	J	5.0	2.2	ug/L		08/15/24 09:25	08/19/24 18:38	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 09:25	08/19/24 18:38	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254423-1

Client Sample ID: ARC-02_20240731
Date Collected: 07/31/24 08:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254423-1
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**51**	**J**	100	25	ug/L		08/15/24 09:25	08/19/24 18:40	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 09:25	08/19/24 18:40	1
Arsenic	**0.94**	**J**	1.0	0.23	ug/L		08/15/24 09:25	08/19/24 18:40	1
Barium	**32**		2.5	0.73	ug/L		08/15/24 09:25	08/19/24 18:40	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 09:25	08/19/24 18:40	1
Boron	**23**	**J B**	50	13	ug/L		08/15/24 09:25	08/20/24 15:55	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 09:25	08/19/24 18:40	1
Calcium	**22000**		200	44	ug/L		08/15/24 09:25	08/19/24 18:40	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 09:25	08/19/24 18:40	1
Cobalt	**0.40**	**J**	1.0	0.40	ug/L		08/15/24 09:25	08/19/24 18:40	1
Copper	**4.7**		2.0	0.50	ug/L		08/15/24 09:25	08/19/24 18:40	1
Iron	**950**		100	47	ug/L		08/15/24 09:25	08/19/24 18:40	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 09:25	08/19/24 18:40	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 09:25	08/19/24 18:40	1
Magnesium	**4600**		200	49	ug/L		08/15/24 09:25	08/19/24 18:40	1
Manganese	**240**		2.5	0.79	ug/L		08/15/24 09:25	08/19/24 18:40	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 09:25	08/19/24 18:40	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 09:25	08/19/24 18:40	1
Potassium	**1100**		500	110	ug/L		08/15/24 09:25	08/19/24 18:40	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 09:25	08/19/24 18:40	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 09:25	08/19/24 18:40	1
Sodium	**2000**	**B**	200	77	ug/L		08/15/24 09:25	08/19/24 18:40	1
Strontium	**79**		4.0	0.64	ug/L		08/15/24 09:25	08/19/24 18:40	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 09:25	08/19/24 18:40	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 09:25	08/19/24 18:40	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 09:25	08/19/24 18:40	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 09:25	08/19/24 18:40	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**72**		0.91	0.46	mg/L		08/15/24 09:25	08/20/24 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			08/02/24 14:37	1
Nitrate as N (EPA 300.0)	<0.043	H3	1.0	0.043	mg/L			08/02/24 14:37	1
Chloride (EPA 300.0)	**0.40**	**J B**	1.0	0.12	mg/L			08/02/24 14:37	1
Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			08/02/24 14:37	1
Fluoride (EPA 300.0)	**0.19**	**J**	1.0	0.19	mg/L			08/02/24 14:37	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			08/02/24 14:37	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			08/02/24 14:37	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/08/24 13:35	08/10/24 12:35	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:41	1
Phosphorus as P (EPA 365.1)	**0.073**	**H B**	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:40	1
Alkalinity (SM 2320B)	**74**		5.0	3.7	mg/L			08/07/24 20:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**74**		5.0	3.7	mg/L			08/07/24 20:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/07/24 20:15	1
Salinity (SM 2520B)	**>0.33**		0.33	0.33	psu			08/19/24 08:00	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254423-1

Client Sample ID: ARC-02_20240731
Date Collected: 07/31/24 08:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254423-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	98		10	4.3	mg/L			08/05/24 00:40	1
Total Suspended Solids (SM 2540D)	13		5.0	1.9	mg/L			08/07/24 14:58	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			08/07/24 19:59	1
Total Organic Carbon (SM 5310C)	15		1.0	0.47	mg/L			08/13/24 22:35	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	15		1.0	0.47	mg/L			08/15/24 15:23	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254423-1

Client Sample ID: ARC-02_20240731_FBLL
Date Collected: 07/31/24 08:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254423-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 19:11	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254423-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Dissolved	Water	1638	
500-254423-1	ARC-02_20240731	Total Recoverable	Water	1638	
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-254423-1 MS	ARC-02_20240731	Dissolved	Water	1638	
500-254423-1 MSD	ARC-02_20240731	Dissolved	Water	1638	

Prep Batch: 2525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Dissolved	Water	1630	
500-254423-1	ARC-02_20240731	Total/NA	Water	1630	
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 2531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Dissolved	Water	1631E	
500-254423-1	ARC-02_20240731	Total/NA	Water	1631E	
500-254423-2	ARC-02_20240731_FBLL	Total/NA	Water	1631E	
MB 350-2531/20	Method Blank	Total/NA	Water	1631E	
MB 350-2531/23	Method Blank	Total/NA	Water	1631E	
MB 350-2531/24	Method Blank	Total/NA	Water	1631E	
LCS 350-2531/30	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2531/31	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Dissolved	Water	1630	2525
500-254423-1	ARC-02_20240731	Total/NA	Water	1630	2525
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	2525
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	2525
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	2525

Analysis Batch: 2539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Dissolved	Water	1638	2524
500-254423-1	ARC-02_20240731	Total Recoverable	Water	1638	2524
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	2524
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	2524
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	2524
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2524
500-254423-1 MS	ARC-02_20240731	Dissolved	Water	1638	2524
500-254423-1 MSD	ARC-02_20240731	Dissolved	Water	1638	2524

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254423-1

Metals

Prep Batch: 781599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Dissolved	Water	3005A	
500-254423-1	ARC-02_20240731	Total Recoverable	Water	3005A	
MB 500-781599/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781599/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 782311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Dissolved	Water	6020B	781599
500-254423-1	ARC-02_20240731	Total Recoverable	Water	6020B	781599
MB 500-781599/1-A	Method Blank	Total Recoverable	Water	6020B	781599
LCS 500-781599/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781599

Analysis Batch: 782345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Total Recoverable	Water	SM 2340B	781599

Analysis Batch: 782541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Dissolved	Water	6020B	781599
500-254423-1	ARC-02_20240731	Total Recoverable	Water	6020B	781599

General Chemistry

Analysis Batch: 779674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Total/NA	Water	300.0	
MB 500-779674/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779674/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Total/NA	Water	300.0	
MB 500-779675/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779675/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Total/NA	Water	SM 2540C	
MB 500-779810/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779810/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 780308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Total/NA	Water	SM 2540D	
MB 500-780308/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-780308/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 780362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Total/NA	Water	SM 4500 S2 F	
MB 500-780362/1	Method Blank	Total/NA	Water	SM 4500 S2 F	

General Chemistry (Continued)

Analysis Batch: 780362 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-780362/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 780451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Total/NA	Water	SM 2320B	
MB 500-780451/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-780451/29	Lab Control Sample	Total/NA	Water	SM 2320B	

Prep Batch: 780526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Total/NA	Water	Distill/CN	
MB 500-780526/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780526/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-780526/1-A	Method Blank	Total/NA	Water	335.4	780526
LCS 500-780526/2-A	Lab Control Sample	Total/NA	Water	335.4	780526

Analysis Batch: 781207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Total/NA	Water	335.4	780526

Analysis Batch: 781274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Total/NA	Water	SM 5310C	
MB 500-781274/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-781274/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 781988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Dissolved	Water	SM 5310C	
MB 500-781988/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-781988/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 782060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Total/NA	Water	SM 2520B	

Prep Batch: 782364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Total/NA	Water	Distill/Ammonia	
MB 500-782364/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 782798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Total/NA	Water	350.1	782364
MB 500-782364/1-A	Method Blank	Total/NA	Water	350.1	782364
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	350.1	782364

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254423-1

General Chemistry

Prep Batch: 783635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Total/NA	Water	365.2/365.3/365	
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 783821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254423-1	ARC-02_20240731	Total/NA	Water	365.1	783635
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.1	783635
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.1	783635

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2525/1-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:32	1

Lab Sample ID: MB 350-2525/28-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:43	1

Lab Sample ID: MB 350-2525/29-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:53	1

Lab Sample ID: LCS 350-2525/2-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.937		ng/L		94	65 - 135

Lab Sample ID: LCSD 350-2525/3-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.952		ng/L		95	65 - 135	2	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2531/20
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:00	1

Lab Sample ID: MB 350-2531/23
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:12	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2531/24
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:16	1

Lab Sample ID: LCS 350-2531/30
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.77		ng/L		95	77 - 123

Lab Sample ID: LCSD 350-2531/31
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.81		ng/L		96	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2524/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0219	J	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:12	1

Lab Sample ID: MB 350-2524/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:15	1

Lab Sample ID: LCS 350-2524/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.3		ug/L		89	85 - 115

Lab Sample ID: LCSD 350-2524/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	1	20

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254423-1 MS
Matrix: Water
Analysis Batch: 2539

Client Sample ID: ARC-02_20240731
Prep Type: Dissolved
Prep Batch: 2524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	0.10	B	25.0	23.5		ug/L		94	70 - 130

Lab Sample ID: 500-254423-1 MSD
Matrix: Water
Analysis Batch: 2539

Client Sample ID: ARC-02_20240731
Prep Type: Dissolved
Prep Batch: 2524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	0.10	B	25.0	23.7		ug/L		94	70 - 130	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781599/1-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 09:25	08/19/24 17:31	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 09:25	08/19/24 17:31	1
Arsenic	<0.23		1.0	0.23	ug/L		08/15/24 09:25	08/19/24 17:31	1
Barium	<0.73		2.5	0.73	ug/L		08/15/24 09:25	08/19/24 17:31	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 09:25	08/19/24 17:31	1
Boron	41.0	J	50	13	ug/L		08/15/24 09:25	08/19/24 17:31	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 09:25	08/19/24 17:31	1
Calcium	<44		200	44	ug/L		08/15/24 09:25	08/19/24 17:31	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 09:25	08/19/24 17:31	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 09:25	08/19/24 17:31	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 09:25	08/19/24 17:31	1
Iron	<47		100	47	ug/L		08/15/24 09:25	08/19/24 17:31	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 09:25	08/19/24 17:31	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 09:25	08/19/24 17:31	1
Magnesium	<49		200	49	ug/L		08/15/24 09:25	08/19/24 17:31	1
Manganese	<0.79		2.5	0.79	ug/L		08/15/24 09:25	08/19/24 17:31	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 09:25	08/19/24 17:31	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 09:25	08/19/24 17:31	1
Potassium	<110		500	110	ug/L		08/15/24 09:25	08/19/24 17:31	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 09:25	08/19/24 17:31	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 09:25	08/19/24 17:31	1
Sodium	192	J	200	77	ug/L		08/15/24 09:25	08/19/24 17:31	1
Strontium	<0.64		4.0	0.64	ug/L		08/15/24 09:25	08/19/24 17:31	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 09:25	08/19/24 17:31	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 09:25	08/19/24 17:31	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 09:25	08/19/24 17:31	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 09:25	08/19/24 17:31	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781599/2-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1930		ug/L		96	80 - 120
Antimony	500	491		ug/L		98	80 - 120
Arsenic	100	96.0		ug/L		96	80 - 120
Barium	500	489		ug/L		98	80 - 120
Beryllium	50.0	49.7		ug/L		99	80 - 120
Boron	1000	1020		ug/L		102	80 - 120
Cadmium	50.0	49.3		ug/L		99	80 - 120
Calcium	10000	8340		ug/L		83	80 - 120
Chromium	200	200		ug/L		100	80 - 120
Cobalt	500	510		ug/L		102	80 - 120
Copper	250	248		ug/L		99	80 - 120
Iron	1000	1010		ug/L		101	80 - 120
Lead	100	98.0		ug/L		98	80 - 120
Lithium	100	105		ug/L		105	80 - 120
Magnesium	10000	10200		ug/L		102	80 - 120
Manganese	500	500		ug/L		100	80 - 120
Molybdenum	1000	946		ug/L		95	80 - 120
Nickel	500	498		ug/L		100	80 - 120
Potassium	10000	10000		ug/L		100	80 - 120
Selenium	100	95.1		ug/L		95	80 - 120
Silver	50.0	48.4		ug/L		97	80 - 120
Sodium	10000	9970		ug/L		100	80 - 120
Strontium	1000	953		ug/L		95	80 - 120
Thallium	100	101		ug/L		101	80 - 120
Tin	1000	966		ug/L		97	80 - 120
Vanadium	500	491		ug/L		98	80 - 120
Zinc	500	489		ug/L		98	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-779674/3
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			08/02/24 11:30	1
Chloride	0.160	J ^+	1.0	0.12	mg/L			08/02/24 11:30	1
Fluoride	<0.19		1.0	0.19	mg/L			08/02/24 11:30	1
Sulfate	<0.21		1.0	0.21	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779674/4
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	18.6		mg/L		93	90 - 110
Chloride	20.0	20.5	^+	mg/L		103	90 - 110
Fluoride	20.0	20.6		mg/L		103	90 - 110
Sulfate	20.0	21.5		mg/L		107	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-779675/3
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043	^-	1.0	0.043	mg/L			08/02/24 11:30	1
Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779675/4
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.3	^-	mg/L		96	90 - 110
Nitrite as N	20.0	20.9		mg/L		104	90 - 110
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780526/1-A
Matrix: Water
Analysis Batch: 780726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036	^1+	0.0050	0.0036	mg/L		08/08/24 13:35	08/09/24 10:59	1

Lab Sample ID: LCS 500-780526/2-A
Matrix: Water
Analysis Batch: 780726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0917	^1+	mg/L		92	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-782364/1-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:35	1

Lab Sample ID: LCS 500-782364/2-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.02		mg/L		101	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-783635/1-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	0.0260	J	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:37	1

Lab Sample ID: LCS 500-783635/2-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.918		mg/L		92	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-780451/28
Matrix: Water
Analysis Batch: 780451

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/07/24 17:20	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/07/24 17:20	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/07/24 17:20	1

Lab Sample ID: LCS 500-780451/29
Matrix: Water
Analysis Batch: 780451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	110		mg/L		110	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-779810/1
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			08/05/24 00:12	1

Lab Sample ID: LCS 500-779810/2
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-780308/1
Matrix: Water
Analysis Batch: 780308

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/07/24 13:57	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254423-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: LCS 500-780308/2
Matrix: Water
Analysis Batch: 780308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	195		mg/L		97	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-780362/1
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			08/07/24 19:12	1

Lab Sample ID: LCS 500-780362/2
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.56		mg/L		98	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-781274/7
Matrix: Water
Analysis Batch: 781274

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/13/24 14:39	1

Lab Sample ID: LCS 500-781274/8
Matrix: Water
Analysis Batch: 781274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-781988/7
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			08/15/24 13:59	1

Lab Sample ID: LCS 500-781988/8
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254423-1

Client Sample ID: ARC-02_20240731

Lab Sample ID: 500-254423-1

Date Collected: 07/31/24 08:30

Matrix: Water

Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Dissolved	Analysis	1630		1	2538	CL	EET SSM	08/08/24 21:05
Total/NA	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Total/NA	Analysis	1630		1	2538	CL	EET SSM	08/08/24 20:55
Dissolved	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 18:58
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 18:54
Dissolved	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Dissolved	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 13:41
Total Recoverable	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Total Recoverable	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 15:33
Dissolved	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 [1]
Dissolved	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 18:40
Dissolved	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 [1]
Dissolved	Analysis	6020B		1	782541	RN	EET CHI	08/20/24 15:55
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 [1]
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 18:38
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 [1]
Total Recoverable	Analysis	6020B		1	782541	RN	EET CHI	08/20/24 15:53
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 [1]
Total Recoverable	Analysis	SM 2340B		1	782345	DAJ	EET CHI	08/20/24 09:15
Total/NA	Analysis	300.0		1	779674	W1T	EET CHI	08/02/24 14:37
Total/NA	Analysis	300.0		1	779675	W1T	EET CHI	08/02/24 14:37
Total/NA	Prep	Distill/CN			780526	AC	EET CHI	08/08/24 13:35 - 08/08/24 14:05 [1]
Total/NA	Analysis	335.4		1	781207	AC	EET CHI	08/10/24 12:35
Total/NA	Prep	Distill/Ammonia			782364	EB	EET CHI	08/20/24 11:33 - 08/20/24 12:33 [1]
Total/NA	Analysis	350.1		1	782798	KF	EET CHI	08/22/24 10:41
Total/NA	Prep	365.2/365.3/365			783635	ER	EET CHI	08/28/24 09:30 - 08/28/24 13:22 [1]
Total/NA	Analysis	365.1		1	783821	KF	EET CHI	08/29/24 08:40
Total/NA	Analysis	SM 2320B		1	780451	SO	EET CHI	08/07/24 20:15
Total/NA	Analysis	SM 2520B		1	782060	TR	EET CHI	08/19/24 08:00
Total/NA	Analysis	SM 2540C		1	779810	CLB	EET CHI	08/05/24 00:40
Total/NA	Analysis	SM 2540D		1	780308	SO	EET CHI	08/07/24 14:58 - 08/07/24 15:03 [1]
Total/NA	Analysis	SM 4500 S2 F		1	780362	CLB	EET CHI	08/07/24 19:59 - 08/07/24 20:03 [1]
Dissolved	Analysis	SM 5310C		1	781988	TR	EET CHI	08/15/24 15:23
Total/NA	Analysis	SM 5310C		1	781274	TR	EET CHI	08/13/24 22:35

Client Sample ID: ARC-02_20240731_FBLL

Lab Sample ID: 500-254423-2

Date Collected: 07/31/24 08:30

Matrix: Water

Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 19:11

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254423-1

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254423-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1493	COC No.: 500-126351-50241 82
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-254423
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other

500-254423 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
1	ARC-02_20240731	07-31-24	0830	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	19	
2	ARC-02_20240731_FBLK	07-31-24	0830	G	Water										✓						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	7/31/24 2100	MSG		7/31/24 2100	MSG
2		8/1/24 1600	MSG	4051 7962 1493	8/1/24 1600	Fedex
3		Date/Time	Company	Stephanie Hernandez	8/2/24 0955	EETA

Custody Seals Intact. Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks: 1.4+1.3


THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

CAD: 0780307/CAFE3808

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200 REF:
INV:
PO: DEPT:

RMA:

FedEx Express

TRK# 0221 4051 7962 1493

FRI - 02 AUG AA
PRIORITY OVERNIGHT

XP JOTA

60484
IL-US
ORD

5025547 01Aug2024 CMXA 581G6/A12D/C0B8

500-254423 Waybi

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8/29/2024

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254423-1

Login Number: 254423
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254423-1

Login Number: 254423
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 08/06/24 01:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500 254423 Field Sheet

Date:	8/6/2024
End Time:	1342
pH Paper Lot:	hc324723
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254423-J-1					
500-254423-K-1					
500-254423-E-1					
500-254423-F-1				8/6/24	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/29/2024 1:41:51 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254424-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/29/2024 1:41:51 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254424-1

Receipt
The samples were received on 08/02/24 09:55. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.7º C.

Metals
Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- CCB (Incomplete Integration)

Method 1638: The continuing calibration blank (CCB) for analytical batch 350-2539 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The following sample was analyzed outside of analytical holding time MW-44_20240731 (500-254424-1).

Method 300.0: The continuing calibration verification (CCV) associated with batch 500-779675 recovered below the lower control limit for Nitrate as N. Only the MB and LCS in the batch were bracketed with the failing CCV, therefore, the batch MB and LCS associated with the CCV have been reported.

Method 335.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-780526 and analytical batch 500-781207 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 335.4: The initial calibration verification (ICV) associated with batch 500-780726 recovered above the upper control limit for Cyanide, Total. The samples associated with this ICV were rerun in another batch and only the batch MB and LCS are impacted for the affected analyte; therefore, the data have been reported. The associated samples are impacted: (ICV 500-780526/27-A), (LCS 500-780526/2-A) and (MB 500-780526/1-A).

Method 365.1: The method blank for preparation batch 500-783635 and analytical batch 500-783821 contained Phosphorus as P above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 365.1: Reanalysis of the following sample was performed outside of the analytical holding time - re-preparation to confirm initial results. : MW-44_20240731 (500-254424-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254424-1

Client Sample ID: MW-44_20240731

Lab Sample ID: 500-254424-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Uranium	14	B	0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	15	B	0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	42	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.46	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	390		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	200	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	49000		200	44	ug/L	1		6020B	Total Recoverable
Copper	0.71	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	89	J	100	47	ug/L	1		6020B	Total Recoverable
Lithium	34		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	13000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	450		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	20		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	1300		500	110	ug/L	1		6020B	Total Recoverable
Sodium	77000	B	200	77	ug/L	1		6020B	Total Recoverable
Strontium	950		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.43	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	380		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	190	B	50	13	ug/L	1		6020B	Dissolved
Calcium	49000		200	44	ug/L	1		6020B	Dissolved
Lithium	31		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	12000		200	49	ug/L	1		6020B	Dissolved
Manganese	410		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	18		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	1200		500	110	ug/L	1		6020B	Dissolved
Sodium	73000	B	200	77	ug/L	1		6020B	Dissolved
Strontium	950		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	170		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.46	J	1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	43		5.0	0.58	mg/L	5		300.0	Total/NA
Fluoride	0.50	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	10		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.11	H B	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	260		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	260		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	>0.33		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	340		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	0.92	J	1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	1.1		1.0	0.47	mg/L	1		SM 5310C	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254424-1

Client Sample ID: MW-44_20240731_FBLL

Lab Sample ID: 500-254424-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254424-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254424-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254424-1	MW-44_20240731	Water	07/31/24 11:10	08/02/24 09:55
500-254424-2	MW-44_20240731_FBLL	Water	07/31/24 11:10	08/02/24 09:55

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254424-1

Client Sample ID: MW-44_20240731

Date Collected: 07/31/24 11:10
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254424-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 21:56	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 22:07	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 17:56	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 18:00	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**14**	**B**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 15:37	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**15**	**B**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 14:53	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**42**	**J**	100	25	ug/L		08/15/24 09:25	08/19/24 18:43	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 09:25	08/19/24 18:43	1
Arsenic	**0.46**	**J**	1.0	0.23	ug/L		08/15/24 09:25	08/19/24 18:43	1
Barium	**390**		2.5	0.73	ug/L		08/15/24 09:25	08/19/24 18:43	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 09:25	08/19/24 18:43	1
Boron	**200**	**B**	50	13	ug/L		08/15/24 09:25	08/20/24 15:57	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 09:25	08/19/24 18:43	1
Calcium	**49000**		200	44	ug/L		08/15/24 09:25	08/19/24 18:43	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 09:25	08/19/24 18:43	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 09:25	08/19/24 18:43	1
Copper	**0.71**	**J**	2.0	0.50	ug/L		08/15/24 09:25	08/19/24 18:43	1
Iron	**89**	**J**	100	47	ug/L		08/15/24 09:25	08/19/24 18:43	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 09:25	08/19/24 18:43	1
Lithium	**34**		10	2.5	ug/L		08/15/24 09:25	08/19/24 18:43	1
Magnesium	**13000**		200	49	ug/L		08/15/24 09:25	08/19/24 18:43	1
Manganese	**450**		2.5	0.79	ug/L		08/15/24 09:25	08/19/24 18:43	1
Molybdenum	**20**		5.0	2.5	ug/L		08/15/24 09:25	08/19/24 18:43	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 09:25	08/19/24 18:43	1
Potassium	**1300**		500	110	ug/L		08/15/24 09:25	08/19/24 18:43	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 09:25	08/19/24 18:43	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 09:25	08/19/24 18:43	1
Sodium	**77000**	**B**	200	77	ug/L		08/15/24 09:25	08/19/24 18:43	1
Strontium	**950**		4.0	0.64	ug/L		08/15/24 09:25	08/19/24 18:43	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 09:25	08/19/24 18:43	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 09:25	08/19/24 18:43	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 09:25	08/19/24 18:43	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 09:25	08/19/24 18:43	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254424-1

Client Sample ID: MW-44_20240731

Date Collected: 07/31/24 11:10
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254424-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 09:25	08/19/24 18:45	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 09:25	08/19/24 18:45	1
Arsenic	**0.43**	**J**	1.0	0.23	ug/L		08/15/24 09:25	08/19/24 18:45	1
Barium	**380**		2.5	0.73	ug/L		08/15/24 09:25	08/19/24 18:45	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 09:25	08/19/24 18:45	1
Boron	**190**	**B**	50	13	ug/L		08/15/24 09:25	08/20/24 15:59	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 09:25	08/19/24 18:45	1
Calcium	**49000**		200	44	ug/L		08/15/24 09:25	08/19/24 18:45	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 09:25	08/19/24 18:45	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 09:25	08/19/24 18:45	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 09:25	08/19/24 18:45	1
Iron	<47		100	47	ug/L		08/15/24 09:25	08/19/24 18:45	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 09:25	08/19/24 18:45	1
Lithium	**31**		10	2.5	ug/L		08/15/24 09:25	08/19/24 18:45	1
Magnesium	**12000**		200	49	ug/L		08/15/24 09:25	08/19/24 18:45	1
Manganese	**410**		2.5	0.79	ug/L		08/15/24 09:25	08/19/24 18:45	1
Molybdenum	**18**		5.0	2.5	ug/L		08/15/24 09:25	08/19/24 18:45	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 09:25	08/19/24 18:45	1
Potassium	**1200**		500	110	ug/L		08/15/24 09:25	08/19/24 18:45	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 09:25	08/19/24 18:45	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 09:25	08/19/24 18:45	1
Sodium	**73000**	**B**	200	77	ug/L		08/15/24 09:25	08/19/24 18:45	1
Strontium	**950**		4.0	0.64	ug/L		08/15/24 09:25	08/19/24 18:45	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 09:25	08/19/24 18:45	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 09:25	08/19/24 18:45	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 09:25	08/19/24 18:45	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 09:25	08/19/24 18:45	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**170**		0.91	0.46	mg/L		08/15/24 09:25	08/20/24 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.46**	**J**	1.0	0.18	mg/L			08/02/24 14:53	1
Nitrate as N (EPA 300.0)	<0.043	H	1.0	0.043	mg/L			08/02/24 14:53	1
Chloride (EPA 300.0)	**43**		5.0	0.58	mg/L			08/20/24 14:51	5
Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			08/02/24 14:53	1
Fluoride (EPA 300.0)	**0.50**	**J**	1.0	0.19	mg/L			08/02/24 14:53	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			08/02/24 14:53	1
Sulfate (EPA 300.0)	**10**		1.0	0.21	mg/L			08/02/24 14:53	1
Cyanide, Total (EPA 335.4)	<0.0036	F1	0.0050	0.0036	mg/L		08/08/24 13:35	08/10/24 12:36	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:42	1
Phosphorus as P (EPA 365.1)	**0.11**	**H B**	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:40	1
Alkalinity (SM 2320B)	**260**		5.0	3.7	mg/L			08/07/24 20:23	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**260**		5.0	3.7	mg/L			08/07/24 20:23	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/07/24 20:23	1
Salinity (SM 2520B)	**>0.33**		0.33	0.33	psu			08/19/24 08:00	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254424-1

Client Sample ID: MW-44_20240731
Date Collected: 07/31/24 11:10
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254424-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**340**		10	4.3	mg/L			08/05/24 00:43	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			08/07/24 14:48	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			08/07/24 20:03	1
Total Organic Carbon (SM 5310C)	**0.92**	**J**	1.0	0.47	mg/L			08/15/24 23:19	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**1.1**		1.0	0.47	mg/L			08/15/24 15:51	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254424-1

Client Sample ID: MW-44_20240731_FBLL

Date Collected: 07/31/24 11:10
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254424-2

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 18:04	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254424-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Dissolved	Water	1638	
500-254424-1	MW-44_20240731	Total Recoverable	Water	1638	
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Prep Batch: 2525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Dissolved	Water	1630	
500-254424-1	MW-44_20240731	Total/NA	Water	1630	
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 2531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Dissolved	Water	1631E	
500-254424-1	MW-44_20240731	Total/NA	Water	1631E	
500-254424-2	MW-44_20240731_FBLL	Total/NA	Water	1631E	
MB 350-2531/20	Method Blank	Total/NA	Water	1631E	
MB 350-2531/23	Method Blank	Total/NA	Water	1631E	
MB 350-2531/24	Method Blank	Total/NA	Water	1631E	
LCS 350-2531/30	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2531/31	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Dissolved	Water	1630	2525
500-254424-1	MW-44_20240731	Total/NA	Water	1630	2525
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	2525
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	2525
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	2525

Analysis Batch: 2539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Dissolved	Water	1638	2524
500-254424-1	MW-44_20240731	Total Recoverable	Water	1638	2524
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	2524
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	2524
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	2524
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2524

Prep Batch: 781599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Dissolved	Water	3005A	
500-254424-1	MW-44_20240731	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 781599 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-781599/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781599/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 782311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Dissolved	Water	6020B	781599
500-254424-1	MW-44_20240731	Total Recoverable	Water	6020B	781599
MB 500-781599/1-A	Method Blank	Total Recoverable	Water	6020B	781599
LCS 500-781599/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781599

Analysis Batch: 782346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total Recoverable	Water	SM 2340B	781599

Analysis Batch: 782541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Dissolved	Water	6020B	781599
500-254424-1	MW-44_20240731	Total Recoverable	Water	6020B	781599

General Chemistry

Analysis Batch: 779674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total/NA	Water	300.0	
MB 500-779674/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779674/4	Lab Control Sample	Total/NA	Water	300.0	
500-254424-1 MS	MW-44_20240731	Total/NA	Water	300.0	
500-254424-1 MSD	MW-44_20240731	Total/NA	Water	300.0	

Analysis Batch: 779675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total/NA	Water	300.0	
MB 500-779675/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779675/4	Lab Control Sample	Total/NA	Water	300.0	
500-254424-1 MS	MW-44_20240731	Total/NA	Water	300.0	
500-254424-1 MSD	MW-44_20240731	Total/NA	Water	300.0	

Analysis Batch: 779810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total/NA	Water	SM 2540C	
MB 500-779810/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779810/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 780308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total/NA	Water	SM 2540D	
MB 500-780308/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-780308/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-254424-1 MS	MW-44_20240731	Total/NA	Water	SM 2540D	

General Chemistry

Analysis Batch: 780362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total/NA	Water	SM 4500 S2 F	
MB 500-780362/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-780362/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 780451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total/NA	Water	SM 2320B	
MB 500-780451/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-780451/29	Lab Control Sample	Total/NA	Water	SM 2320B	
500-254424-1 DU	MW-44_20240731	Total/NA	Water	SM 2320B	

Prep Batch: 780526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total/NA	Water	Distill/CN	
MB 500-780526/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780526/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
500-254424-1 MS	MW-44_20240731	Total/NA	Water	Distill/CN	
500-254424-1 MSD	MW-44_20240731	Total/NA	Water	Distill/CN	

Analysis Batch: 780726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-780526/1-A	Method Blank	Total/NA	Water	335.4	780526
LCS 500-780526/2-A	Lab Control Sample	Total/NA	Water	335.4	780526

Analysis Batch: 781207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total/NA	Water	335.4	780526
500-254424-1 MS	MW-44_20240731	Total/NA	Water	335.4	780526
500-254424-1 MSD	MW-44_20240731	Total/NA	Water	335.4	780526

Analysis Batch: 781985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total/NA	Water	SM 5310C	
MB 500-781985/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-781985/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 781988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Dissolved	Water	SM 5310C	
MB 500-781988/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-781988/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 782060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total/NA	Water	SM 2520B	

Prep Batch: 782364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total/NA	Water	Distill/Ammonia	
MB 500-782364/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254424-1

General Chemistry

Analysis Batch: 782372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total/NA	Water	300.0	
MB 500-782372/3	Method Blank	Total/NA	Water	300.0	
LCS 500-782372/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 782798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total/NA	Water	350.1	782364
MB 500-782364/1-A	Method Blank	Total/NA	Water	350.1	782364
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	350.1	782364

Prep Batch: 783635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total/NA	Water	365.2/365.3/365	
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 783821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254424-1	MW-44_20240731	Total/NA	Water	365.1	783635
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.1	783635
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.1	783635

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2525/1-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:32	1

Lab Sample ID: MB 350-2525/28-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:43	1

Lab Sample ID: MB 350-2525/29-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:53	1

Lab Sample ID: LCS 350-2525/2-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.937		ng/L		94	65 - 135

Lab Sample ID: LCSD 350-2525/3-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.952		ng/L		95	65 - 135	2	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2531/20
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:00	1

Lab Sample ID: MB 350-2531/23
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:12	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2531/24
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:16	1

Lab Sample ID: LCS 350-2531/30
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.77		ng/L		95	77 - 123

Lab Sample ID: LCSD 350-2531/31
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.81		ng/L		96	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2524/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0219	J	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:12	1

Lab Sample ID: MB 350-2524/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:15	1

Lab Sample ID: LCS 350-2524/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.3		ug/L		89	85 - 115

Lab Sample ID: LCSD 350-2524/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781599/1-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 09:25	08/19/24 17:31	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 09:25	08/19/24 17:31	1
Arsenic	<0.23		1.0	0.23	ug/L		08/15/24 09:25	08/19/24 17:31	1
Barium	<0.73		2.5	0.73	ug/L		08/15/24 09:25	08/19/24 17:31	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 09:25	08/19/24 17:31	1
Boron	41.0	J	50	13	ug/L		08/15/24 09:25	08/19/24 17:31	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 09:25	08/19/24 17:31	1
Calcium	<44		200	44	ug/L		08/15/24 09:25	08/19/24 17:31	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 09:25	08/19/24 17:31	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 09:25	08/19/24 17:31	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 09:25	08/19/24 17:31	1
Iron	<47		100	47	ug/L		08/15/24 09:25	08/19/24 17:31	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 09:25	08/19/24 17:31	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 09:25	08/19/24 17:31	1
Magnesium	<49		200	49	ug/L		08/15/24 09:25	08/19/24 17:31	1
Manganese	<0.79		2.5	0.79	ug/L		08/15/24 09:25	08/19/24 17:31	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 09:25	08/19/24 17:31	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 09:25	08/19/24 17:31	1
Potassium	<110		500	110	ug/L		08/15/24 09:25	08/19/24 17:31	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 09:25	08/19/24 17:31	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 09:25	08/19/24 17:31	1
Sodium	192	J	200	77	ug/L		08/15/24 09:25	08/19/24 17:31	1
Strontium	<0.64		4.0	0.64	ug/L		08/15/24 09:25	08/19/24 17:31	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 09:25	08/19/24 17:31	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 09:25	08/19/24 17:31	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 09:25	08/19/24 17:31	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 09:25	08/19/24 17:31	1

Lab Sample ID: LCS 500-781599/2-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1930		ug/L		96	80 - 120
Antimony	500	491		ug/L		98	80 - 120
Arsenic	100	96.0		ug/L		96	80 - 120
Barium	500	489		ug/L		98	80 - 120
Beryllium	50.0	49.7		ug/L		99	80 - 120
Boron	1000	1020		ug/L		102	80 - 120
Cadmium	50.0	49.3		ug/L		99	80 - 120
Calcium	10000	8340		ug/L		83	80 - 120
Chromium	200	200		ug/L		100	80 - 120
Cobalt	500	510		ug/L		102	80 - 120
Copper	250	248		ug/L		99	80 - 120
Iron	1000	1010		ug/L		101	80 - 120
Lead	100	98.0		ug/L		98	80 - 120
Lithium	100	105		ug/L		105	80 - 120
Magnesium	10000	10200		ug/L		102	80 - 120
Manganese	500	500		ug/L		100	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781599/2-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	1000	946		ug/L		95	80 - 120
Nickel	500	498		ug/L		100	80 - 120
Potassium	10000	10000		ug/L		100	80 - 120
Selenium	100	95.1		ug/L		95	80 - 120
Silver	50.0	48.4		ug/L		97	80 - 120
Sodium	10000	9970		ug/L		100	80 - 120
Strontium	1000	953		ug/L		95	80 - 120
Thallium	100	101		ug/L		101	80 - 120
Tin	1000	966		ug/L		97	80 - 120
Vanadium	500	491		ug/L		98	80 - 120
Zinc	500	489		ug/L		98	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-779674/3
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			08/02/24 11:30	1
Fluoride	<0.19		1.0	0.19	mg/L			08/02/24 11:30	1
Sulfate	<0.21		1.0	0.21	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779674/4
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	18.6		mg/L		93	90 - 110
Fluoride	20.0	20.6		mg/L		103	90 - 110
Sulfate	20.0	21.5		mg/L		107	90 - 110

Lab Sample ID: 500-254424-1 MS
Matrix: Water
Analysis Batch: 779674

Client Sample ID: MW-44_20240731
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.46	J	10.0	9.00		mg/L		85	80 - 120
Fluoride	0.50	J	10.0	10.8		mg/L		103	80 - 120
Sulfate	10		10.0	20.3		mg/L		100	80 - 120

Lab Sample ID: 500-254424-1 MSD
Matrix: Water
Analysis Batch: 779674

Client Sample ID: MW-44_20240731
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.46	J	10.0	9.03		mg/L		86	80 - 120	0	20
Fluoride	0.50	J	10.0	10.8		mg/L		103	80 - 120	0	20
Sulfate	10		10.0	20.3		mg/L		100	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-779675/3
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043	^-	1.0	0.043	mg/L			08/02/24 11:30	1
Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779675/4
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.3	^-	mg/L		96	90 - 110
Nitrite as N	20.0	20.9		mg/L		104	90 - 110
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Lab Sample ID: 500-254424-1 MS
Matrix: Water
Analysis Batch: 779675

Client Sample ID: MW-44_20240731
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	<0.043	H	10.0	8.89		mg/L		89	80 - 120
Nitrite as N	<0.070	H	10.0	10.1		mg/L		101	80 - 120
Nitrate Nitrite as N	<0.070	H	20.0	19.0		mg/L		95	80 - 120

Lab Sample ID: 500-254424-1 MSD
Matrix: Water
Analysis Batch: 779675

Client Sample ID: MW-44_20240731
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.043	H	10.0	8.90		mg/L		89	80 - 120	0	20
Nitrite as N	<0.070	H	10.0	10.1		mg/L		101	80 - 120	0	20
Nitrate Nitrite as N	<0.070	H	20.0	19.0		mg/L		95	80 - 120	0	20

Lab Sample ID: MB 500-782372/3
Matrix: Water
Analysis Batch: 782372

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/20/24 13:01	1

Lab Sample ID: LCS 500-782372/4
Matrix: Water
Analysis Batch: 782372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	21.1		mg/L		106	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780526/1-A
Matrix: Water
Analysis Batch: 780726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036	^1+	0.0050	0.0036	mg/L		08/08/24 13:35	08/09/24 10:59	1

Lab Sample ID: LCS 500-780526/2-A
Matrix: Water
Analysis Batch: 780726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0917	^1+	mg/L		92	90 - 110

Lab Sample ID: 500-254424-1 MS
Matrix: Water
Analysis Batch: 781207

Client Sample ID: MW-44_20240731
Prep Type: Total/NA
Prep Batch: 780526

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.0036	F1	0.100	0.0740	F1	mg/L		74	90 - 110

Lab Sample ID: 500-254424-1 MSD
Matrix: Water
Analysis Batch: 781207

Client Sample ID: MW-44_20240731
Prep Type: Total/NA
Prep Batch: 780526

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.0036	F1	0.100	0.0755	F1	mg/L		76	90 - 110	2	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-782364/1-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:35	1

Lab Sample ID: LCS 500-782364/2-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.02		mg/L		101	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-783635/1-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	0.0260	J	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:37	1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCS 500-783635/2-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.918		mg/L		92	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-780451/28
Matrix: Water
Analysis Batch: 780451

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/07/24 17:20	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/07/24 17:20	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/07/24 17:20	1

Lab Sample ID: LCS 500-780451/29
Matrix: Water
Analysis Batch: 780451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	110		mg/L		110	95 - 121

Lab Sample ID: 500-254424-1 DU
Matrix: Water
Analysis Batch: 780451

Client Sample ID: MW-44_20240731
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	260		258		mg/L		0	20
Bicarbonate Alkalinity as CaCO3	260		258		mg/L		0	20
Carbonate Alkalinity as CaCO3	<3.7		<3.7		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-779810/1
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			08/05/24 00:12	1

Lab Sample ID: LCS 500-779810/2
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-780308/1
Matrix: Water
Analysis Batch: 780308

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/07/24 13:57	1

Lab Sample ID: LCS 500-780308/2
Matrix: Water
Analysis Batch: 780308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	195		mg/L		97	80 - 120

Lab Sample ID: 500-254424-1 MS
Matrix: Water
Analysis Batch: 780308

Client Sample ID: MW-44_20240731
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	<1.9		100	87.0		mg/L		87	75 - 125

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-780362/1
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			08/07/24 19:12	1

Lab Sample ID: LCS 500-780362/2
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.56		mg/L		98	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-781985/7
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/15/24 13:59	1

Lab Sample ID: LCS 500-781985/8
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-781988/7
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			08/15/24 13:59	1

Lab Sample ID: LCS 500-781988/8
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Client Sample ID: MW-44_20240731

Lab Sample ID: 500-254424-1

Date Collected: 07/31/24 11:10

Matrix: Water

Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Dissolved	Analysis	1630		1	2538	CL	EET SSM	08/08/24 22:07
Total/NA	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Total/NA	Analysis	1630		1	2538	CL	EET SSM	08/08/24 21:56
Dissolved	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 18:00
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 17:56
Dissolved	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Dissolved	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 14:53
Total Recoverable	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Total Recoverable	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 15:37
Dissolved	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 [1]
Dissolved	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 18:45
Dissolved	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 [1]
Dissolved	Analysis	6020B		1	782541	RN	EET CHI	08/20/24 15:59
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 [1]
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 18:43
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 [1]
Total Recoverable	Analysis	6020B		1	782541	RN	EET CHI	08/20/24 15:57
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 [1]
Total Recoverable	Analysis	SM 2340B		1	782346	DAJ	EET CHI	08/20/24 09:15
Total/NA	Analysis	300.0		1	779674	W1T	EET CHI	08/02/24 14:53
Total/NA	Analysis	300.0		1	779675	W1T	EET CHI	08/02/24 14:53
Total/NA	Analysis	300.0		5	782372	W1T	EET CHI	08/20/24 14:51
Total/NA	Prep	Distill/CN			780526	AC	EET CHI	08/08/24 13:35 - 08/08/24 14:05 [1]
Total/NA	Analysis	335.4		1	781207	AC	EET CHI	08/10/24 12:36
Total/NA	Prep	Distill/Ammonia			782364	EB	EET CHI	08/20/24 11:33 - 08/20/24 12:33 [1]
Total/NA	Analysis	350.1		1	782798	KF	EET CHI	08/22/24 10:42
Total/NA	Prep	365.2/365.3/365			783635	ER	EET CHI	08/28/24 09:30 - 08/28/24 13:22 [1]
Total/NA	Analysis	365.1		1	783821	KF	EET CHI	08/29/24 08:40
Total/NA	Analysis	SM 2320B		1	780451	SO	EET CHI	08/07/24 20:23
Total/NA	Analysis	SM 2520B		1	782060	TR	EET CHI	08/19/24 08:00
Total/NA	Analysis	SM 2540C		1	779810	CLB	EET CHI	08/05/24 00:43
Total/NA	Analysis	SM 2540D		1	780308	SO	EET CHI	08/07/24 14:48 - 08/07/24 14:53 [1]
Total/NA	Analysis	SM 4500 S2 F		1	780362	CLB	EET CHI	08/07/24 20:03 - 08/07/24 20:07 [1]
Dissolved	Analysis	SM 5310C		1	781988	TR	EET CHI	08/15/24 15:51
Total/NA	Analysis	SM 5310C		1	781985	TR	EET CHI	08/15/24 23:19

Client Sample ID: MW-44_20240731_FBLL

Lab Sample ID: 500-254424-2

Date Collected: 07/31/24 11:10

Matrix: Water

Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 18:04

Lab Chronicle

Client: White Pine Copper LLC
Job ID: 500-254424-1
Project/Site: White Pines, MI

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254424-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Copperwell	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1460	COC No: 500-126351-50241 51
Client Contact: Amanda Zeidler	Phone: 517 513 2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500- 254424
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			500-254424 COC
Phone: 906-204-6500	PO #: Purchase Order not required			Other:
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC SM5310 C	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, ~~3500_CR_B~~, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	~~3500_CR_B~~ Dissolved Chromium, Hex (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
							Preservation Code:														
							S	N	CB	B	S	D	D	N	A	D	D	N	N		
1 MW_44_20240731	7.31.24	11:10	G	Water			X	X	X	X	X	X	X	X	X	X	X	~~X~~	~~X~~	18	
2 MW 44_20240731_FBLK	7.31.24	11:10	G	Water										X			MS			2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	7/31/24 2100	MSG		7/31/24 2100	MSG
2		8/1/24 1600	MSG	4051 7962 1460	~~8/1~~ 8/1/24 1600	fedex
3				Stephanie Hernandez	8/2/24 0955	EEIA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 5.8-5.7

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1460	COC No: 500-126351-50241 52
Client Contact: Amanda Zeidler	Phone: 517 513 2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254424
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B - NaOH; D HNO3; A - HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
1 MW 44-20240731	7-31-24	11:10	G	Water			X	1	
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

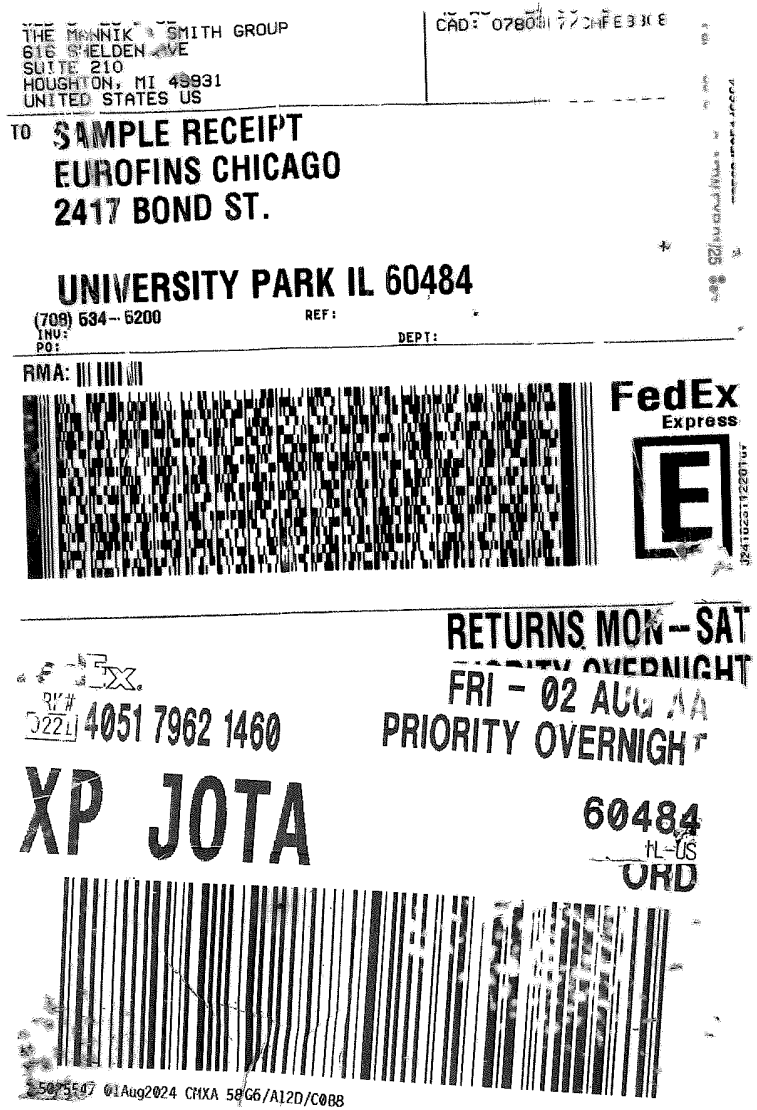
Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Ellen Coppernoll	7/31/24 2100	MSG		7/31/24 2100	MSG
Relinquished by:	8/1/24 1600	MSG	Received by: 4051 7962 1460	8/1/24 1600	Fedex
Relinquished by:	Date/Time:	Company	Received by: Stephanie Hernandez	8/2/24 0955	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks:


THE MANNIK SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

CAD: 07803177/CHFE3100

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484

(708) 534-5200 REF:
INV: DEPT:
PO:

RMA:

FedEx Express

RETURNS MON-SAT
FRI - 02 AUG AA
PRIORITY OVERNIGHT

4051 7962 1460

XP JOTA

60484
IL-US
ORD

501561/ 01Aug2024 CHXA 58G6/A12D/C0B8

500-254424 Waybi

USat

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-191250.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-254424-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/22/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: White Pines, MI	Project #: 50023455			
Site	SSOW#			

Analysis Requested

Preservation Codes: -

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-44_20240731 (500-254424-1)	7/31/24	11:10 Eastern		Water			X	X	X	X	X	X	8	
MW-44_20240731_FBLL (500-254424-2)	7/31/24	11:10 Eastern		Water				X					2	

Other:

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.3 /0.3 °C
Delivery: UPS / FedEx / Other. ____
Ice Type: Blue / Dry / Wet / None
Label Ver. 1 Packing: 13

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.2 /0.2 °C
Delivery: UPS / FedEx / Other. ____
Ice Type: Blue / Dry / Wet / None
Label Ver. 1 Packing: D

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.5 /0.5 °C
Delivery: UPS / FedEx / Other. ____
Ice Type: Blue / Dry / Wet / None
Label Ver. ____ Packing: 13

Note Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed 7051 7670 5212	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/5/24 0900		[signature]	8/6/24 10:10	ESLS
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-191239.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-254423-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/22/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: White Pines, MI	Project #: 50023455			
Site	SSOW#			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
ARC-02_20240731 (500-254423-1)	7/31/24	08:30 Eastern		Water			X	X	X	X	X	X	8	
ARC-02_20240731_FBLL (500-254423-2)	7/31/24	08:30 Eastern		Water				X					2	

Preservation Codes: -

Other:

5 Blue

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: -0.3 / -0.3 °C
Delivery: UPS / FedEx / Other
Ice Type: Blue / Dry / Wet / None
Label Ver.: _____ Packing: 15

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: -0.2 / -0.2 °C
Delivery: UPS / FedEx / Other
Ice Type: Blue / Dry / Wet / None
Label Ver. _____ Packing: 15

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.5 / 0.5 °C
Delivery: UPS / FedEx / Other
Ice Type: Blue / Dry / Wet / None
Label Ver. _____ Packing: 1

Note Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago

Possible Hazard Identification: Unconfirmed 7051 7620 5212	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/5/24 0900		[signature]	8/6/24 10:00	EHS
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: △ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone. 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-191259.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-254433-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/22/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: White Pines, MI	Project #: 50023455			
Site	SSOW#			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-2B_20240801 (500-254433-1)	8/1/24	11:30 Eastern		Water			X	X	X	X	X	X	8	
MW-2B_20240801_FBLL (500-254433-2)	8/1/24	11:30 Eastern		Water				X					2	

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: -0.5 / 0.3 °C
Delivery: UPS / FedEx / Other
Ice Type: Blue / Dry / Wet / None
Label Ver.: 1 Packing: B

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.1 / 0.2 °C
Delivery: UPS / FedEx / Other:
Ice Type: Blue / Dry / Wet / None
Label Ver.: 1 Packing: B

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.1 / 0.5 °C
Delivery: UPS / FedEx / Other:
Ice Type: Blue / Dry / Wet / None
Label Ver.: W Packing: B

Note Since laboratory accreditations are subject to change, Eurofins Chicago pl… upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does… accreditation in the State of Origin listed above for analysis/tests/matrix being an… be shipped back to the Eurofins Chicago laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Chicago attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago

Possible Hazard Identification: Unconfirmed 7051 7670 5212	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Shri Koot	8/5/24 0900			8/6/24 10:10	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254424-1

Login Number: 254424
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254424-1

Login Number: 254424
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 08/06/24 01:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254424 Field Sheet

Date:	8/6/2024
End Time:	13:42
pH Paper Lot:	hc324723
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254424-K-1	<2				
500-254424-J-1	<2			2	
500-254424-E-1	<2				
500-254424-F-1	<2			8/6/24	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/29/2024 1:45:44 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254425-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/29/2024 1:45:44 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254425-1

Receipt
The samples were received on 08/02/24 09:55. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

Metals
Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- CCB (Incomplete Integration)

Method 1638: The continuing calibration blank (CCB) for analytical batch 350-2539 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The following sample was analyzed outside of analytical holding time TBN-01_20240731 (500-254425-1).

Method 300.0: The continuing calibration verification (CCV) associated with batch 500-779675 recovered below the lower control limit for Nitrate as N. Only the MB and LCS in the batch were bracketed with the failing CCV, therefore, the batch MB and LCS associated with the CCV have been reported.

Method 335.4: The initial calibration verification (ICV) associated with batch 500-780726 recovered above the upper control limit for Cyanide, Total. The samples associated with this ICV were rerun in another batch and only the batch MB and LCS are impacted for the affected analyte; therefore, the data have been reported. The associated samples are impacted: (ICV 500-780526/27-A), (LCS 500-780526/2-A) and (MB 500-780526/1-A).

Method SM 2320B: The method blank for analytical batch 500-781135 contained Alkalinity and Bicarbonate Alkalinity as CaCO3 above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed.

Method 365.1: The method blank for preparation batch 500-783635 and analytical batch 500-783821 contained Phosphorus as P above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 365.1: Reanalysis of the following samples was performed outside of the analytical holding time due to QC failures and low bias during initial analysis. Reanalysis obtained results above our MDL but below our RL. Therefore, initial analysis has been confirmed and reported as Primary: TBN-01_20240731 (500-254425-1).

Method 365.1: Reanalysis performed outside analytical holding time obtained results above MDL but below RL. Therefore, initial analysis has been confirmed and reported as Primary: TBN-01_20240731 (500-254425-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254425-1

Client Sample ID: TBN-01_20240731

Lab Sample ID: 500-254425-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.25	J	0.50	0.20	ng/L	1		1631E	Total/NA
Uranium	0.40	B	0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.42	B	0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	150		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.96	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	77		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	400	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	54000		200	44	ug/L	1		6020B	Total Recoverable
Copper	32		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	190		100	47	ug/L	1		6020B	Total Recoverable
Lithium	40		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	9300		200	49	ug/L	1		6020B	Total Recoverable
Manganese	7.1		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	45		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	4000		500	110	ug/L	1		6020B	Total Recoverable
Sodium	90000	B	200	77	ug/L	1		6020B	Total Recoverable
Strontium	880		4.0	0.64	ug/L	1		6020B	Total Recoverable
Aluminum	32	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.92	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	75		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	400	B	50	13	ug/L	1		6020B	Dissolved
Calcium	54000		200	44	ug/L	1		6020B	Dissolved
Copper	24		2.0	0.50	ug/L	1		6020B	Dissolved
Lithium	40		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	9000		200	49	ug/L	1		6020B	Dissolved
Manganese	1.0	J	2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	44		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	4000		500	110	ug/L	1		6020B	Dissolved
Sodium	89000	B	200	77	ug/L	1		6020B	Dissolved
Strontium	850		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	170		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	1.7		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	210		10	1.2	mg/L	10		300.0	Total/NA
Fluoride	0.33	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	34		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	40	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	40	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	>0.33		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	530		10	4.3	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254425-1

Client Sample ID: TBN-01_20240731 (Continued) — Lab Sample ID: 500-254425-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	2.0	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	4.7		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	4.6		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: TBN-01_20240731_FBLL — Lab Sample ID: 500-254425-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254425-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254425-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254425-1	TBN-01_20240731	Water	07/31/24 11:30	08/02/24 09:55
500-254425-2	TBN-01_20240731_FBLL	Water	07/31/24 11:30	08/02/24 09:55

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254425-1

Client Sample ID: TBN-01_20240731

Date Collected: 07/31/24 11:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254425-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 19:23	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 20:45	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.25**	**J**	0.50	0.20	ng/L			08/08/24 20:00	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 20:05	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.40**	**B**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 15:41	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.42**	**B**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 14:57	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**150**		100	25	ug/L		08/15/24 09:25	08/19/24 18:48	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 09:25	08/19/24 18:48	1
Arsenic	**0.96**	**J**	1.0	0.23	ug/L		08/15/24 09:25	08/19/24 18:48	1
Barium	**77**		2.5	0.73	ug/L		08/15/24 09:25	08/19/24 18:48	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 09:25	08/19/24 18:48	1
Boron	**400**	**B**	50	13	ug/L		08/15/24 09:25	08/20/24 16:02	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 09:25	08/19/24 18:48	1
Calcium	**54000**		200	44	ug/L		08/15/24 09:25	08/19/24 18:48	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 09:25	08/19/24 18:48	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 09:25	08/19/24 18:48	1
Copper	**32**		2.0	0.50	ug/L		08/15/24 09:25	08/19/24 18:48	1
Iron	**190**		100	47	ug/L		08/15/24 09:25	08/19/24 18:48	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 09:25	08/19/24 18:48	1
Lithium	**40**		10	2.5	ug/L		08/15/24 09:25	08/19/24 18:48	1
Magnesium	**9300**		200	49	ug/L		08/15/24 09:25	08/19/24 18:48	1
Manganese	**7.1**		2.5	0.79	ug/L		08/15/24 09:25	08/19/24 18:48	1
Molybdenum	**45**		5.0	2.5	ug/L		08/15/24 09:25	08/19/24 18:48	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 09:25	08/19/24 18:48	1
Potassium	**4000**		500	110	ug/L		08/15/24 09:25	08/19/24 18:48	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 09:25	08/19/24 18:48	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 09:25	08/19/24 18:48	1
Sodium	**90000**	**B**	200	77	ug/L		08/15/24 09:25	08/19/24 18:48	1
Strontium	**880**		4.0	0.64	ug/L		08/15/24 09:25	08/19/24 18:48	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 09:25	08/19/24 18:48	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 09:25	08/19/24 18:48	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 09:25	08/19/24 18:48	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 09:25	08/19/24 18:48	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254425-1

Client Sample ID: TBN-01_20240731

Lab Sample ID: 500-254425-1

Date Collected: 07/31/24 11:30

Matrix: Water

Date Received: 08/02/24 09:55

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**32**	**J**	100	25	ug/L		08/15/24 09:25	08/19/24 18:55	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 09:25	08/19/24 18:55	1
Arsenic	**0.92**	**J**	1.0	0.23	ug/L		08/15/24 09:25	08/19/24 18:55	1
Barium	**75**		2.5	0.73	ug/L		08/15/24 09:25	08/19/24 18:55	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 09:25	08/19/24 18:55	1
Boron	**400**	**B**	50	13	ug/L		08/15/24 09:25	08/20/24 16:04	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 09:25	08/19/24 18:55	1
Calcium	**54000**		200	44	ug/L		08/15/24 09:25	08/19/24 18:55	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 09:25	08/19/24 18:55	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 09:25	08/19/24 18:55	1
Copper	**24**		2.0	0.50	ug/L		08/15/24 09:25	08/19/24 18:55	1
Iron	<47		100	47	ug/L		08/15/24 09:25	08/19/24 18:55	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 09:25	08/19/24 18:55	1
Lithium	**40**		10	2.5	ug/L		08/15/24 09:25	08/19/24 18:55	1
Magnesium	**9000**		200	49	ug/L		08/15/24 09:25	08/19/24 18:55	1
Manganese	**1.0**	**J**	2.5	0.79	ug/L		08/15/24 09:25	08/19/24 18:55	1
Molybdenum	**44**		5.0	2.5	ug/L		08/15/24 09:25	08/19/24 18:55	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 09:25	08/19/24 18:55	1
Potassium	**4000**		500	110	ug/L		08/15/24 09:25	08/19/24 18:55	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 09:25	08/19/24 18:55	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 09:25	08/19/24 18:55	1
Sodium	**89000**	**B**	200	77	ug/L		08/15/24 09:25	08/19/24 18:55	1
Strontium	**850**		4.0	0.64	ug/L		08/15/24 09:25	08/19/24 18:55	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 09:25	08/19/24 18:55	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 09:25	08/19/24 18:55	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 09:25	08/19/24 18:55	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 09:25	08/19/24 18:55	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**170**		0.91	0.46	mg/L		08/15/24 09:25	08/20/24 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**1.7**		1.0	0.18	mg/L			08/02/24 15:40	1
Nitrate as N (EPA 300.0)	<0.043	H	1.0	0.043	mg/L			08/02/24 15:40	1
Chloride (EPA 300.0)	**210**		10	1.2	mg/L			08/20/24 21:22	10
Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			08/02/24 15:40	1
Fluoride (EPA 300.0)	**0.33**	**J**	1.0	0.19	mg/L			08/02/24 15:40	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			08/02/24 15:40	1
Sulfate (EPA 300.0)	**34**		1.0	0.21	mg/L			08/02/24 15:40	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/08/24 13:35	08/10/24 12:41	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:42	1
Phosphorus as P (EPA 365.1)	<0.024	^1- *-	0.050	0.024	mg/L		08/13/24 11:40	08/16/24 13:45	1
Alkalinity (SM 2320B)	**40**	**B**	5.0	3.7	mg/L			08/12/24 18:21	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**40**	**B**	5.0	3.7	mg/L			08/12/24 18:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/12/24 18:21	1
Salinity (SM 2520B)	**>0.33**		0.33	0.33	psu			08/19/24 08:00	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254425-1

Client Sample ID: TBN-01_20240731
Date Collected: 07/31/24 11:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254425-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**530**		10	4.3	mg/L			08/05/24 00:45	1
Total Suspended Solids (SM 2540D)	**2.0**	**J**	5.0	1.9	mg/L			08/07/24 15:03	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			08/07/24 20:07	1
Total Organic Carbon (SM 5310C)	**4.7**		1.0	0.47	mg/L			08/15/24 23:47	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**4.6**		1.0	0.47	mg/L			08/15/24 16:19	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254425-1

Client Sample ID: TBN-01_20240731_FBLL
Date Collected: 07/31/24 11:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254425-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 20:09	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254425-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Dissolved	Water	1638	
500-254425-1	TBN-01_20240731	Total Recoverable	Water	1638	
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Prep Batch: 2525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Dissolved	Water	1630	
500-254425-1	TBN-01_20240731	Total/NA	Water	1630	
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	
500-254425-1 MS	TBN-01_20240731	Total/NA	Water	1630	
500-254425-1 MSD	TBN-01_20240731	Total/NA	Water	1630	

Analysis Batch: 2531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Dissolved	Water	1631E	
500-254425-1	TBN-01_20240731	Total/NA	Water	1631E	
500-254425-2	TBN-01_20240731_FBLL	Total/NA	Water	1631E	
MB 350-2531/25	Method Blank	Total/NA	Water	1631E	
MB 350-2531/26	Method Blank	Total/NA	Water	1631E	
MB 350-2531/27	Method Blank	Total/NA	Water	1631E	
LCS 350-2531/32	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2531/35	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Dissolved	Water	1630	2525
500-254425-1	TBN-01_20240731	Total/NA	Water	1630	2525
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	2525
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	2525
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	2525
500-254425-1 MS	TBN-01_20240731	Total/NA	Water	1630	2525
500-254425-1 MSD	TBN-01_20240731	Total/NA	Water	1630	2525

Analysis Batch: 2539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Dissolved	Water	1638	2524
500-254425-1	TBN-01_20240731	Total Recoverable	Water	1638	2524
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	2524
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	2524
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	2524
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2524

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254425-1

Metals

Prep Batch: 781599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Dissolved	Water	3005A	
500-254425-1	TBN-01_20240731	Total Recoverable	Water	3005A	
MB 500-781599/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781599/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 782311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Dissolved	Water	6020B	781599
500-254425-1	TBN-01_20240731	Total Recoverable	Water	6020B	781599
MB 500-781599/1-A	Method Blank	Total Recoverable	Water	6020B	781599
LCS 500-781599/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781599

Analysis Batch: 782347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total Recoverable	Water	SM 2340B	781599

Analysis Batch: 782541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Dissolved	Water	6020B	781599
500-254425-1	TBN-01_20240731	Total Recoverable	Water	6020B	781599

General Chemistry

Analysis Batch: 779674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total/NA	Water	300.0	
MB 500-779674/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779674/4	Lab Control Sample	Total/NA	Water	300.0	
500-254425-1 MS	TBN-01_20240731	Total/NA	Water	300.0	
500-254425-1 MSD	TBN-01_20240731	Total/NA	Water	300.0	

Analysis Batch: 779675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total/NA	Water	300.0	
MB 500-779675/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779675/4	Lab Control Sample	Total/NA	Water	300.0	
500-254425-1 MS	TBN-01_20240731	Total/NA	Water	300.0	
500-254425-1 MSD	TBN-01_20240731	Total/NA	Water	300.0	

Analysis Batch: 779810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total/NA	Water	SM 2540C	
MB 500-779810/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779810/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 780308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total/NA	Water	SM 2540D	
MB 500-780308/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-780308/2	Lab Control Sample	Total/NA	Water	SM 2540D	

General Chemistry

Analysis Batch: 780362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total/NA	Water	SM 4500 S2 F	
MB 500-780362/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-780362/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Prep Batch: 780526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total/NA	Water	Distill/CN	
MB 500-780526/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780526/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-780526/1-A	Method Blank	Total/NA	Water	335.4	780526
LCS 500-780526/2-A	Lab Control Sample	Total/NA	Water	335.4	780526

Prep Batch: 780983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total/NA	Water	365.2/365.3/365	
MB 500-780983/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780983/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 781135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total/NA	Water	SM 2320B	
MB 500-781135/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-781135/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 781207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total/NA	Water	335.4	780526

Analysis Batch: 781985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total/NA	Water	SM 5310C	
MB 500-781985/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-781985/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 781988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Dissolved	Water	SM 5310C	
MB 500-781988/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-781988/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 782060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total/NA	Water	SM 2520B	

Prep Batch: 782364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total/NA	Water	Distill/Ammonia	
MB 500-782364/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	

General Chemistry (Continued)

Prep Batch: 782364 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 782372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total/NA	Water	300.0	
MB 500-782372/33	Method Blank	Total/NA	Water	300.0	
LCS 500-782372/34	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 782798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total/NA	Water	350.1	782364
MB 500-782364/1-A	Method Blank	Total/NA	Water	350.1	782364
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	350.1	782364

Analysis Batch: 783024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254425-1	TBN-01_20240731	Total/NA	Water	365.1	780983
MB 500-780983/1-A	Method Blank	Total/NA	Water	365.1	780983
LCS 500-780983/2-A	Lab Control Sample	Total/NA	Water	365.1	780983

Prep Batch: 783635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 783821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.1	783635
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.1	783635

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2525/1-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:32	1

Lab Sample ID: MB 350-2525/28-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:43	1

Lab Sample ID: MB 350-2525/29-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:53	1

Lab Sample ID: LCS 350-2525/2-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2525

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl Mercury			1.00	0.937		ng/L		94	65 - 135		

Lab Sample ID: LCSD 350-2525/3-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2525

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury			1.00	0.952		ng/L		95	65 - 135	2	35

Lab Sample ID: 500-254425-1 MS
Matrix: Water
Analysis Batch: 2538

Client Sample ID: TBN-01_20240731
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl Mercury	<0.022		1.00	0.894		ng/L		89	65 - 135		

Lab Sample ID: 500-254425-1 MSD
Matrix: Water
Analysis Batch: 2538

Client Sample ID: TBN-01_20240731
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	<0.022		1.00	0.934		ng/L		93	65 - 135	4	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2531/25
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:20	1

Lab Sample ID: MB 350-2531/26
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:24	1

Lab Sample ID: MB 350-2531/27
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:29	1

Lab Sample ID: LCS 350-2531/32
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.83		ng/L		97	77 - 123

Lab Sample ID: LCSD 350-2531/35
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.82		ng/L		96	77 - 123	0	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2524/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0219	J	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:12	1

Lab Sample ID: MB 350-2524/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:15	1

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 350-2524/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.3		ug/L		89	85 - 115

Lab Sample ID: LCSD 350-2524/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781599/1-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 09:25	08/19/24 17:31	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 09:25	08/19/24 17:31	1
Arsenic	<0.23		1.0	0.23	ug/L		08/15/24 09:25	08/19/24 17:31	1
Barium	<0.73		2.5	0.73	ug/L		08/15/24 09:25	08/19/24 17:31	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 09:25	08/19/24 17:31	1
Boron	41.0	J	50	13	ug/L		08/15/24 09:25	08/19/24 17:31	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 09:25	08/19/24 17:31	1
Calcium	<44		200	44	ug/L		08/15/24 09:25	08/19/24 17:31	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 09:25	08/19/24 17:31	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 09:25	08/19/24 17:31	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 09:25	08/19/24 17:31	1
Iron	<47		100	47	ug/L		08/15/24 09:25	08/19/24 17:31	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 09:25	08/19/24 17:31	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 09:25	08/19/24 17:31	1
Magnesium	<49		200	49	ug/L		08/15/24 09:25	08/19/24 17:31	1
Manganese	<0.79		2.5	0.79	ug/L		08/15/24 09:25	08/19/24 17:31	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 09:25	08/19/24 17:31	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 09:25	08/19/24 17:31	1
Potassium	<110		500	110	ug/L		08/15/24 09:25	08/19/24 17:31	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 09:25	08/19/24 17:31	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 09:25	08/19/24 17:31	1
Sodium	192	J	200	77	ug/L		08/15/24 09:25	08/19/24 17:31	1
Strontium	<0.64		4.0	0.64	ug/L		08/15/24 09:25	08/19/24 17:31	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 09:25	08/19/24 17:31	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 09:25	08/19/24 17:31	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 09:25	08/19/24 17:31	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 09:25	08/19/24 17:31	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781599/2-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1930		ug/L		96	80 - 120
Antimony	500	491		ug/L		98	80 - 120
Arsenic	100	96.0		ug/L		96	80 - 120
Barium	500	489		ug/L		98	80 - 120
Beryllium	50.0	49.7		ug/L		99	80 - 120
Boron	1000	1020		ug/L		102	80 - 120
Cadmium	50.0	49.3		ug/L		99	80 - 120
Calcium	10000	8340		ug/L		83	80 - 120
Chromium	200	200		ug/L		100	80 - 120
Cobalt	500	510		ug/L		102	80 - 120
Copper	250	248		ug/L		99	80 - 120
Iron	1000	1010		ug/L		101	80 - 120
Lead	100	98.0		ug/L		98	80 - 120
Lithium	100	105		ug/L		105	80 - 120
Magnesium	10000	10200		ug/L		102	80 - 120
Manganese	500	500		ug/L		100	80 - 120
Molybdenum	1000	946		ug/L		95	80 - 120
Nickel	500	498		ug/L		100	80 - 120
Potassium	10000	10000		ug/L		100	80 - 120
Selenium	100	95.1		ug/L		95	80 - 120
Silver	50.0	48.4		ug/L		97	80 - 120
Sodium	10000	9970		ug/L		100	80 - 120
Strontium	1000	953		ug/L		95	80 - 120
Thallium	100	101		ug/L		101	80 - 120
Tin	1000	966		ug/L		97	80 - 120
Vanadium	500	491		ug/L		98	80 - 120
Zinc	500	489		ug/L		98	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-779674/3
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			08/02/24 11:30	1
Fluoride	<0.19		1.0	0.19	mg/L			08/02/24 11:30	1
Sulfate	<0.21		1.0	0.21	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779674/4
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	18.6		mg/L		93	90 - 110
Fluoride	20.0	20.6		mg/L		103	90 - 110
Sulfate	20.0	21.5		mg/L		107	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-254425-1 MS
Matrix: Water
Analysis Batch: 779674

Client Sample ID: TBN-01_20240731
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	1.7		10.0	11.2		mg/L		94	80 - 120
Fluoride	0.33	J	10.0	9.98		mg/L		97	80 - 120
Sulfate	34		10.0	42.8		mg/L		90	80 - 120

Lab Sample ID: 500-254425-1 MSD
Matrix: Water
Analysis Batch: 779674

Client Sample ID: TBN-01_20240731
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	1.7		10.0	11.1		mg/L		94	80 - 120	0	20
Fluoride	0.33	J	10.0	9.99		mg/L		97	80 - 120	0	20
Sulfate	34		10.0	42.8		mg/L		89	80 - 120	0	20

Lab Sample ID: MB 500-779675/3
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043	^-	1.0	0.043	mg/L			08/02/24 11:30	1
Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779675/4
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.3	^-	mg/L		96	90 - 110
Nitrite as N	20.0	20.9		mg/L		104	90 - 110
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Lab Sample ID: 500-254425-1 MS
Matrix: Water
Analysis Batch: 779675

Client Sample ID: TBN-01_20240731
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	<0.043	H	10.0	9.23		mg/L		92	80 - 120
Nitrite as N	<0.070	H	10.0	10.6		mg/L		106	80 - 120
Nitrate Nitrite as N	<0.070	H	20.0	19.8		mg/L		99	80 - 120

Lab Sample ID: 500-254425-1 MSD
Matrix: Water
Analysis Batch: 779675

Client Sample ID: TBN-01_20240731
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.043	H	10.0	9.24		mg/L		92	80 - 120	0	20
Nitrite as N	<0.070	H	10.0	10.5		mg/L		105	80 - 120	0	20
Nitrate Nitrite as N	<0.070	H	20.0	19.7		mg/L		99	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-782372/33
Matrix: Water
Analysis Batch: 782372

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/20/24 20:50	1

Lab Sample ID: LCS 500-782372/34
Matrix: Water
Analysis Batch: 782372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	21.1		mg/L		106	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780526/1-A
Matrix: Water
Analysis Batch: 780726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036	^1+	0.0050	0.0036	mg/L		08/08/24 13:35	08/09/24 10:59	1

Lab Sample ID: LCS 500-780526/2-A
Matrix: Water
Analysis Batch: 780726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0917	^1+	mg/L		92	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-782364/1-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:35	1

Lab Sample ID: LCS 500-782364/2-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.02		mg/L		101	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780983/1-A
Matrix: Water
Analysis Batch: 783024

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^1-	0.050	0.024	mg/L		08/13/24 11:40	08/16/24 13:41	1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCS 500-780983/2-A
Matrix: Water
Analysis Batch: 783024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.425	^1- *-	mg/L		85	88 - 123

Lab Sample ID: MB 500-783635/1-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	0.0260	J	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:37	1

Lab Sample ID: LCS 500-783635/2-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.918		mg/L		92	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-781135/3
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Bicarbonate Alkalinity as CaCO3	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/12/24 16:56	1

Lab Sample ID: LCS 500-781135/4
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-779810/1
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			08/05/24 00:12	1

Lab Sample ID: LCS 500-779810/2
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-780308/1
Matrix: Water
Analysis Batch: 780308

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/07/24 13:57	1

Lab Sample ID: LCS 500-780308/2
Matrix: Water
Analysis Batch: 780308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	195		mg/L		97	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-780362/1
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			08/07/24 19:12	1

Lab Sample ID: LCS 500-780362/2
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.56		mg/L		98	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-781985/7
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/15/24 13:59	1

Lab Sample ID: LCS 500-781985/8
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-781988/7
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			08/15/24 13:59	1

Method: SM 5310C - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: LCS 500-781988/8
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254425-1

Client Sample ID: TBN-01_20240731

Lab Sample ID: 500-254425-1

Date Collected: 07/31/24 11:30

Matrix: Water

Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Dissolved	Analysis	1630		1	2538	CL	EET SSM	08/08/24 20:45
Total/NA	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Total/NA	Analysis	1630		1	2538	CL	EET SSM	08/08/24 19:23
Dissolved	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 20:05
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 20:00
Dissolved	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Dissolved	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 14:57
Total Recoverable	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Total Recoverable	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 15:41
Dissolved	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Dissolved	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 18:55
Dissolved	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Dissolved	Analysis	6020B		1	782541	RN	EET CHI	08/20/24 16:04
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 18:48
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		1	782541	RN	EET CHI	08/20/24 16:02
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	SM 2340B		1	782347	DAJ	EET CHI	08/20/24 09:15
Total/NA	Analysis	300.0		1	779674	W1T	EET CHI	08/02/24 15:40
Total/NA	Analysis	300.0		1	779675	W1T	EET CHI	08/02/24 15:40
Total/NA	Analysis	300.0		10	782372	W1T	EET CHI	08/20/24 21:22
Total/NA	Prep	Distill/CN			780526	AC	EET CHI	08/08/24 13:35 - 08/08/24 14:05 ¹
Total/NA	Analysis	335.4		1	781207	AC	EET CHI	08/10/24 12:41
Total/NA	Prep	Distill/Ammonia			782364	EB	EET CHI	08/20/24 11:33 - 08/20/24 12:33 ¹
Total/NA	Analysis	350.1		1	782798	KF	EET CHI	08/22/24 10:42
Total/NA	Prep	365.2/365.3/365			780983	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:46 ¹
Total/NA	Analysis	365.1		1	783024	LP	EET CHI	08/16/24 13:45
Total/NA	Analysis	SM 2320B		1	781135	SO	EET CHI	08/12/24 18:21
Total/NA	Analysis	SM 2520B		1	782060	TR	EET CHI	08/19/24 08:00
Total/NA	Analysis	SM 2540C		1	779810	CLB	EET CHI	08/05/24 00:45
Total/NA	Analysis	SM 2540D		1	780308	SO	EET CHI	08/07/24 15:03 - 08/07/24 15:08 ¹
Total/NA	Analysis	SM 4500 S2 F		1	780362	CLB	EET CHI	08/07/24 20:07 - 08/07/24 20:12 ¹
Dissolved	Analysis	SM 5310C		1	781988	TR	EET CHI	08/15/24 16:19
Total/NA	Analysis	SM 5310C		1	781985	TR	EET CHI	08/15/24 23:47

Client Sample ID: TBN-01_20240731_FBLL

Lab Sample ID: 500-254425-2

Date Collected: 07/31/24 11:30

Matrix: Water

Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 20:09

Lab Chronicle

Client: White Pine Copper LLC
Job ID: 500-254425-1
Project/Site: White Pines, MI

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254425-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: JES CHRESTENSEN	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1530	COC No: 500-126351-50241 77
Client Contact: Amanda Zeidler	Phone: 906-281-4726	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254425
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

500-254425 COC

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC SM5310	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, ~~3500_CR_D~~; SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	~~3500_CR_D - Dissolved Chromium, Hex (field filtered)~~	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	N		
1	TBN-01_20240731	7-31-24	11:30	G	Water			X	X	X	X	X	X	X	X	X	X	X		X	18	
2	TBN-01-20240731_FBLL	7-31-24	11:30	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/31/24 17:30	MSG		7/31/24 1730	MSG
2		8/1/24 1600	MSG	4051 7962 1530	8/1/24 1600	fedex
3				Stephanie Hernandez	8/2/24 0955	EELA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.3+2.2

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ted Christensen	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1530	COC No: 500-126351-50241 78
Client Contact: Amanda Zeidler	Phone: 906 281 4726	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254425
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB - ZnAcetate/NaOH; B - NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				A		
1	TBN-01_20240731	7-31-24	1130	G	Water			X	1	
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7-31-24 17:30	MSG		MSG 7/31/24 1730	MSG
2		8/1/24 1600	MSG	4051 7962 1530	8/1/24 1600	fedex
3				Stephanie Hernandez	8/2/24 0956	EEIA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks.


THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

CAD: 0780307/CAFE3808

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484

(708) 534-5200 REF:
INV:
PO: DEPT:

RMA:

FedEx Express

FedEx
TRK# 0221 4051 7962 1530

FRI - 02 AUG AA
PRIORITY OVERNIGHT

XP JOTA 2.3+22 60484
IL-US
ORD

5025547 01Aug2024 CMXA 581G6/A12D/C0B8

500-254425 Waybi

48at

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254425-1

Login Number: 254425
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254425-1

Login Number: 254425
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 08/06/24 01:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254425 Field Sheet

Date:	8/6/2024
End Time:	13:42
pH Paper Lot:	hc324723
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254425-J-1	<2				
500-254425-K-1	<2				
500-254425-F-1	<2				
500-254425-E-1	<2				

8/6/24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/29/2024 1:50:01 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254426-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/29/2024 1:50:01 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254426-1

Receipt
The samples were received on 08/02/24 09:55. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

Metals
Method 6020B: The linear range check (LRC) for batch 782541 recovered outside of control limits for Lithium. Sample results for this analyte were within the high calibration standard therefore data has been qualified and reported. (LRC 500-782541/13)

Method 1638: The continuing calibration blank (CCB) for analytical batch 350-2539 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The following sample was analyzed outside of analytical holding time BNW-01_20240731 (500-254426-1).

Method 300.0: The method blank for analytical batch 500-780095 contained Nitrate as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM 2320B: The method blank for analytical batch 500-781135 contained Alkalinity and Bicarbonate Alkalinity as CaCO3 above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 365.1: The method blank for preparation batch 500-783635 and analytical batch 500-783821 contained Phosphorus as P above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 365.1: Reanalysis of the following samples was performed outside of the analytical holding time due to QC failures and low bias during initial analysis. Reanalysis obtained results above our MDL but below our RL. Therefore, initial analysis has been confirmed and reported as Primary: BNW-01_20240731 (500-254426-1).

Method 365.1: Reanalysis performed outside analytical holding time obtained results above MDL but below RL. Therefore, initial analysis has been confirmed and reported as Primary: BNW-01_20240731 (500-254426-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254426-1

Client Sample ID: BNW-01_20240731 — Lab Sample ID: 500-254426-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.35	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.44	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.092	B	0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.096	B	0.030	0.0098	ug/L	1		1638	Dissolved
Arsenic	0.50	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	26		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	43	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	21000		200	44	ug/L	1		6020B	Total Recoverable
Copper	2.1		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	160		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	6400		200	49	ug/L	1		6020B	Total Recoverable
Manganese	13		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	110	J	500	110	ug/L	1		6020B	Total Recoverable
Sodium	1400		200	77	ug/L	1		6020B	Total Recoverable
Strontium	76	B	4.0	0.64	ug/L	1		6020B	Total Recoverable
Zinc	12	J	20	6.9	ug/L	1		6020B	Total Recoverable
Arsenic	0.48	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	26		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	31	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	21000		200	44	ug/L	1		6020B	Dissolved
Copper	2.0		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	100		100	47	ug/L	1		6020B	Dissolved
Magnesium	6300		200	49	ug/L	1		6020B	Dissolved
Manganese	7.4		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	110	J	500	110	ug/L	1		6020B	Dissolved
Sodium	1400		200	77	ug/L	1		6020B	Dissolved
Strontium	76	B	4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	80		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	0.79	J	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.21	J	1.0	0.19	mg/L	1		300.0	Total/NA
Alkalinity	82	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	82	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	>0.33		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	76		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	7.0		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	7.0		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: BNW-01_20240731_FBLL — Lab Sample ID: 500-254426-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254426-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254426-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254426-1	BNW-01_20240731	Water	07/31/24 13:00	08/02/24 09:55
500-254426-2	BNW-01_20240731_FBLL	Water	07/31/24 13:00	08/02/24 09:55

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254426-1

Client Sample ID: BNW-01_20240731

Lab Sample ID: 500-254426-1

Date Collected: 07/31/24 13:00

Matrix: Water

Date Received: 08/02/24 09:55

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 20:01	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 20:12	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.35**	**J**	0.50	0.20	ng/L			08/08/24 19:40	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.44**	**J**	0.50	0.20	ng/L			08/08/24 19:44	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.092**	**B**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 15:44	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.096**	**B**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 15:01	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/16/24 08:49	08/20/24 17:23	1
Antimony	<1.3		3.0	1.3	ug/L		08/16/24 08:49	08/20/24 17:23	1
Arsenic	**0.50**	**J**	1.0	0.23	ug/L		08/16/24 08:49	08/20/24 17:23	1
Barium	**26**		2.5	0.73	ug/L		08/16/24 08:49	08/20/24 17:23	1
Beryllium	<0.53		1.0	0.53	ug/L		08/16/24 08:49	08/20/24 17:23	1
Boron	**43**	**J B**	50	13	ug/L		08/16/24 08:49	08/21/24 14:38	1
Cadmium	<0.17		0.50	0.17	ug/L		08/16/24 08:49	08/20/24 17:23	1
Calcium	**21000**		200	44	ug/L		08/16/24 08:49	08/20/24 17:23	1
Chromium	<1.1		5.0	1.1	ug/L		08/16/24 08:49	08/20/24 17:23	1
Cobalt	<0.40		1.0	0.40	ug/L		08/16/24 08:49	08/20/24 17:23	1
Copper	**2.1**		2.0	0.50	ug/L		08/16/24 08:49	08/20/24 17:23	1
Iron	**160**		100	47	ug/L		08/16/24 08:49	08/20/24 17:23	1
Lead	<0.19		0.50	0.19	ug/L		08/16/24 08:49	08/20/24 17:23	1
Lithium	<2.5	^5-	10	2.5	ug/L		08/16/24 08:49	08/20/24 17:23	1
Magnesium	**6400**		200	49	ug/L		08/16/24 08:49	08/20/24 17:23	1
Manganese	**13**		2.5	0.79	ug/L		08/16/24 08:49	08/20/24 17:23	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/16/24 08:49	08/20/24 17:23	1
Nickel	<0.63		2.0	0.63	ug/L		08/16/24 08:49	08/20/24 17:23	1
Potassium	**110**	**J**	500	110	ug/L		08/16/24 08:49	08/20/24 17:23	1
Selenium	<0.98		2.5	0.98	ug/L		08/16/24 08:49	08/20/24 17:23	1
Silver	<0.12		0.50	0.12	ug/L		08/16/24 08:49	08/20/24 17:23	1
Sodium	**1400**		200	77	ug/L		08/16/24 08:49	08/20/24 17:23	1
Strontium	**76**	**B**	4.0	0.64	ug/L		08/16/24 08:49	08/20/24 17:23	1
Thallium	<0.57		2.0	0.57	ug/L		08/16/24 08:49	08/20/24 17:23	1
Tin	<1.3		5.0	1.3	ug/L		08/16/24 08:49	08/20/24 17:23	1
Vanadium	<2.2		5.0	2.2	ug/L		08/16/24 08:49	08/20/24 17:23	1
Zinc	**12**	**J**	20	6.9	ug/L		08/16/24 08:49	08/20/24 17:23	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254426-1

Client Sample ID: BNW-01_20240731
Date Collected: 07/31/24 13:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254426-1
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/16/24 08:49	08/20/24 17:30	1
Antimony	<1.3		3.0	1.3	ug/L		08/16/24 08:49	08/20/24 17:30	1
Arsenic	**0.48**	**J**	1.0	0.23	ug/L		08/16/24 08:49	08/20/24 17:30	1
Barium	**26**		2.5	0.73	ug/L		08/16/24 08:49	08/20/24 17:30	1
Beryllium	<0.53		1.0	0.53	ug/L		08/16/24 08:49	08/20/24 17:30	1
Boron	**31**	**J B**	50	13	ug/L		08/16/24 08:49	08/21/24 14:41	1
Cadmium	<0.17		0.50	0.17	ug/L		08/16/24 08:49	08/20/24 17:30	1
Calcium	**21000**		200	44	ug/L		08/16/24 08:49	08/20/24 17:30	1
Chromium	<1.1		5.0	1.1	ug/L		08/16/24 08:49	08/20/24 17:30	1
Cobalt	<0.40		1.0	0.40	ug/L		08/16/24 08:49	08/20/24 17:30	1
Copper	**2.0**		2.0	0.50	ug/L		08/16/24 08:49	08/20/24 17:30	1
Iron	**100**		100	47	ug/L		08/16/24 08:49	08/20/24 17:30	1
Lead	<0.19		0.50	0.19	ug/L		08/16/24 08:49	08/20/24 17:30	1
Lithium	<2.5	^5-	10	2.5	ug/L		08/16/24 08:49	08/20/24 17:30	1
Magnesium	**6300**		200	49	ug/L		08/16/24 08:49	08/20/24 17:30	1
Manganese	**7.4**		2.5	0.79	ug/L		08/16/24 08:49	08/20/24 17:30	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/16/24 08:49	08/20/24 17:30	1
Nickel	<0.63		2.0	0.63	ug/L		08/16/24 08:49	08/20/24 17:30	1
Potassium	**110**	**J**	500	110	ug/L		08/16/24 08:49	08/20/24 17:30	1
Selenium	<0.98		2.5	0.98	ug/L		08/16/24 08:49	08/20/24 17:30	1
Silver	<0.12		0.50	0.12	ug/L		08/16/24 08:49	08/20/24 17:30	1
Sodium	**1400**		200	77	ug/L		08/16/24 08:49	08/20/24 17:30	1
Strontium	**76**	**B**	4.0	0.64	ug/L		08/16/24 08:49	08/20/24 17:30	1
Thallium	<0.57		2.0	0.57	ug/L		08/16/24 08:49	08/20/24 17:30	1
Tin	<1.3		5.0	1.3	ug/L		08/16/24 08:49	08/20/24 17:30	1
Vanadium	<2.2		5.0	2.2	ug/L		08/16/24 08:49	08/20/24 17:30	1
Zinc	<6.9		20	6.9	ug/L		08/16/24 08:49	08/20/24 17:30	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**80**		0.91	0.46	mg/L		08/16/24 08:49	08/21/24 09:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			08/02/24 12:01	1
Nitrate as N (EPA 300.0)	<0.043	H	1.0	0.043	mg/L			08/06/24 12:57	1
Chloride (EPA 300.0)	**0.79**	**J**	1.0	0.12	mg/L			08/06/24 12:57	1
Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			08/02/24 12:01	1
Fluoride (EPA 300.0)	**0.21**	**J**	1.0	0.19	mg/L			08/02/24 12:01	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			08/02/24 12:01	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			08/02/24 12:01	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:22	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:43	1
Phosphorus as P (EPA 365.1)	<0.024	^1- *-	0.050	0.024	mg/L		08/13/24 11:40	08/16/24 13:46	1
Alkalinity (SM 2320B)	**82**	**B**	5.0	3.7	mg/L			08/12/24 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**82**	**B**	5.0	3.7	mg/L			08/12/24 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/12/24 18:32	1
Salinity (SM 2520B)	**>0.33**		0.33	0.33	psu			08/19/24 08:00	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254426-1

Client Sample ID: BNW-01_20240731
Date Collected: 07/31/24 13:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254426-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**76**		10	4.3	mg/L			08/05/24 00:48	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			08/07/24 16:23	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			08/07/24 20:12	1
Total Organic Carbon (SM 5310C)	**7.0**		1.0	0.47	mg/L			08/16/24 02:06	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**7.0**		1.0	0.47	mg/L			08/15/24 16:47	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254426-1

Client Sample ID: BNW-01_20240731_FBLL
Date Collected: 07/31/24 13:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254426-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 19:48	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254426-1

Qualifiers

Metals

Qualifier	Qualifier Description
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Dissolved	Water	1638	
500-254426-1	BNW-01_20240731	Total Recoverable	Water	1638	
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Dissolved	Water	1631E	
500-254426-1	BNW-01_20240731	Total/NA	Water	1631E	
500-254426-2	BNW-01_20240731_FBLL	Total/NA	Water	1631E	
MB 350-2531/25	Method Blank	Total/NA	Water	1631E	
MB 350-2531/26	Method Blank	Total/NA	Water	1631E	
MB 350-2531/27	Method Blank	Total/NA	Water	1631E	
LCS 350-2531/32	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2531/35	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Dissolved	Water	1638	2524
500-254426-1	BNW-01_20240731	Total Recoverable	Water	1638	2524
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	2524
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	2524
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	2524
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2524

Prep Batch: 2564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Dissolved	Water	1630	
500-254426-1	BNW-01_20240731	Total/NA	Water	1630	
MB 350-2564/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2564/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2564/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2564/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2564/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 2572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Dissolved	Water	1630	2564
500-254426-1	BNW-01_20240731	Total/NA	Water	1630	2564
MB 350-2564/1-A	Method Blank	Total/NA	Water	1630	2564
MB 350-2564/2-A	Method Blank	Total/NA	Water	1630	2564
MB 350-2564/3-A	Method Blank	Total/NA	Water	1630	2564
LCS 350-2564/4-A	Lab Control Sample	Total/NA	Water	1630	2564
LCSD 350-2564/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2564

Prep Batch: 781802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Dissolved	Water	3005A	
500-254426-1	BNW-01_20240731	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 781802 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-781802/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781802/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 782541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Dissolved	Water	6020B	781802
500-254426-1	BNW-01_20240731	Total Recoverable	Water	6020B	781802
MB 500-781802/1-A	Method Blank	Total Recoverable	Water	6020B	781802
LCS 500-781802/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781802

Analysis Batch: 782558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total Recoverable	Water	SM 2340B	781802

Analysis Batch: 782735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Dissolved	Water	6020B	781802
500-254426-1	BNW-01_20240731	Total Recoverable	Water	6020B	781802

General Chemistry

Analysis Batch: 779674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	300.0	
MB 500-779674/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779674/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	300.0	
MB 500-779675/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779675/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	SM 2540C	
MB 500-779810/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779810/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 780094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	300.0	
MB 500-780094/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780094/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	300.0	
MB 500-780095/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780095/4	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 780310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	SM 2540D	
MB 500-780310/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-780310/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 780362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	SM 4500 S2 F	
MB 500-780362/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-780362/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Prep Batch: 780769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	Distill/CN	
MB 500-780769/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Prep Batch: 780983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	365.2/365.3/365	
MB 500-780983/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780983/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 780985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	335.4	780769
MB 500-780769/1-A	Method Blank	Total/NA	Water	335.4	780769
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	335.4	780769

Analysis Batch: 781135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	SM 2320B	
MB 500-781135/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-781135/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 781985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	SM 5310C	
MB 500-781985/31	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-781985/32	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 781988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Dissolved	Water	SM 5310C	
MB 500-781988/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-781988/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 782060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	SM 2520B	

General Chemistry

Prep Batch: 782364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	Distill/Ammonia	
MB 500-782364/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 782798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	350.1	782364
MB 500-782364/1-A	Method Blank	Total/NA	Water	350.1	782364
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	350.1	782364

Analysis Batch: 783024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254426-1	BNW-01_20240731	Total/NA	Water	365.1	780983
MB 500-780983/1-A	Method Blank	Total/NA	Water	365.1	780983
LCS 500-780983/2-A	Lab Control Sample	Total/NA	Water	365.1	780983

Prep Batch: 783635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 783821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.1	783635
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.1	783635

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2564/1-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 17:28	1

Lab Sample ID: MB 350-2564/2-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 17:39	1

Lab Sample ID: MB 350-2564/3-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 17:49	1

Lab Sample ID: LCS 350-2564/4-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	1.01		ng/L		101	65 - 135

Lab Sample ID: LCSD 350-2564/5-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2564

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.969		ng/L		97	65 - 135	5	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2531/25
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:20	1

Lab Sample ID: MB 350-2531/26
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:24	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2531/27
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:29	1

Lab Sample ID: LCS 350-2531/32
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.83		ng/L		97	77 - 123

Lab Sample ID: LCSD 350-2531/35
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.82		ng/L		96	77 - 123	0	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2524/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0219	J	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:12	1

Lab Sample ID: MB 350-2524/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:15	1

Lab Sample ID: LCS 350-2524/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.3		ug/L		89	85 - 115

Lab Sample ID: LCSD 350-2524/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781802/1-A
Matrix: Water
Analysis Batch: 782541

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/16/24 08:49	08/20/24 16:22	1
Antimony	<1.3		3.0	1.3	ug/L		08/16/24 08:49	08/20/24 16:22	1
Arsenic	<0.23		1.0	0.23	ug/L		08/16/24 08:49	08/20/24 16:22	1
Barium	<0.73		2.5	0.73	ug/L		08/16/24 08:49	08/20/24 16:22	1
Beryllium	<0.53		1.0	0.53	ug/L		08/16/24 08:49	08/20/24 16:22	1
Boron	28.9	J	50	13	ug/L		08/16/24 08:49	08/20/24 16:22	1
Cadmium	<0.17		0.50	0.17	ug/L		08/16/24 08:49	08/20/24 16:22	1
Calcium	<44		200	44	ug/L		08/16/24 08:49	08/20/24 16:22	1
Chromium	<1.1		5.0	1.1	ug/L		08/16/24 08:49	08/20/24 16:22	1
Cobalt	<0.40		1.0	0.40	ug/L		08/16/24 08:49	08/20/24 16:22	1
Copper	<0.50		2.0	0.50	ug/L		08/16/24 08:49	08/20/24 16:22	1
Iron	<47		100	47	ug/L		08/16/24 08:49	08/20/24 16:22	1
Lead	<0.19		0.50	0.19	ug/L		08/16/24 08:49	08/20/24 16:22	1
Lithium	<2.5	^5-	10	2.5	ug/L		08/16/24 08:49	08/20/24 16:22	1
Magnesium	<49		200	49	ug/L		08/16/24 08:49	08/20/24 16:22	1
Manganese	<0.79		2.5	0.79	ug/L		08/16/24 08:49	08/20/24 16:22	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/16/24 08:49	08/20/24 16:22	1
Nickel	<0.63		2.0	0.63	ug/L		08/16/24 08:49	08/20/24 16:22	1
Potassium	<110		500	110	ug/L		08/16/24 08:49	08/20/24 16:22	1
Selenium	<0.98		2.5	0.98	ug/L		08/16/24 08:49	08/20/24 16:22	1
Silver	<0.12		0.50	0.12	ug/L		08/16/24 08:49	08/20/24 16:22	1
Sodium	<77		200	77	ug/L		08/16/24 08:49	08/20/24 16:22	1
Strontium	1.63	J	4.0	0.64	ug/L		08/16/24 08:49	08/20/24 16:22	1
Thallium	<0.57		2.0	0.57	ug/L		08/16/24 08:49	08/20/24 16:22	1
Tin	<1.3		5.0	1.3	ug/L		08/16/24 08:49	08/20/24 16:22	1
Vanadium	<2.2		5.0	2.2	ug/L		08/16/24 08:49	08/20/24 16:22	1
Zinc	<6.9		20	6.9	ug/L		08/16/24 08:49	08/20/24 16:22	1

Lab Sample ID: LCS 500-781802/2-A
Matrix: Water
Analysis Batch: 782541

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1910		ug/L		96	80 - 120
Antimony	500	497		ug/L		99	80 - 120
Arsenic	100	99.2		ug/L		99	80 - 120
Barium	500	497		ug/L		99	80 - 120
Beryllium	50.0	51.1		ug/L		102	80 - 120
Boron	1000	1020		ug/L		102	80 - 120
Cadmium	50.0	50.3		ug/L		101	80 - 120
Calcium	10000	8580		ug/L		86	80 - 120
Chromium	200	199		ug/L		100	80 - 120
Cobalt	500	512		ug/L		102	80 - 120
Copper	250	249		ug/L		100	80 - 120
Iron	1000	1020		ug/L		102	80 - 120
Lead	100	99.7		ug/L		100	80 - 120
Lithium	100	99.6	^5-	ug/L		100	80 - 120
Magnesium	10000	10100		ug/L		101	80 - 120
Manganese	500	506		ug/L		101	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781802/2-A
Matrix: Water
Analysis Batch: 782541

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	1000	968		ug/L		97	80 - 120
Nickel	500	507		ug/L		101	80 - 120
Potassium	10000	10000		ug/L		100	80 - 120
Selenium	100	100		ug/L		100	80 - 120
Silver	50.0	50.2		ug/L		100	80 - 120
Sodium	10000	9920		ug/L		99	80 - 120
Strontium	1000	967		ug/L		97	80 - 120
Thallium	100	102		ug/L		102	80 - 120
Tin	1000	978		ug/L		98	80 - 120
Vanadium	500	491		ug/L		98	80 - 120
Zinc	500	507		ug/L		101	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-779674/3
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			08/02/24 11:30	1
Fluoride	<0.19		1.0	0.19	mg/L			08/02/24 11:30	1
Sulfate	<0.21		1.0	0.21	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779674/4
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	18.6		mg/L		93	90 - 110
Fluoride	20.0	20.6		mg/L		103	90 - 110
Sulfate	20.0	21.5		mg/L		107	90 - 110

Lab Sample ID: MB 500-779675/3
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779675/4
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	20.0	20.9		mg/L		104	90 - 110
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-780094/3
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/06/24 12:27	1

Lab Sample ID: LCS 500-780094/4
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.4		mg/L		97	90 - 110

Lab Sample ID: MB 500-780095/3
Matrix: Water
Analysis Batch: 780095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.113	J	1.0	0.043	mg/L			08/06/24 12:27	1

Lab Sample ID: LCS 500-780095/4
Matrix: Water
Analysis Batch: 780095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	20.2		mg/L		101	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780769/1-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:19	1

Lab Sample ID: LCS 500-780769/2-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.105		mg/L		105	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-782364/1-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:35	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 500-782364/2-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.02		mg/L		101	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780983/1-A
Matrix: Water
Analysis Batch: 783024

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^1-	0.050	0.024	mg/L		08/13/24 11:40	08/16/24 13:41	1

Lab Sample ID: LCS 500-780983/2-A
Matrix: Water
Analysis Batch: 783024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.425	^1- *-	mg/L		85	88 - 123

Lab Sample ID: MB 500-783635/1-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	0.0260	J	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:37	1

Lab Sample ID: LCS 500-783635/2-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.918		mg/L		92	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-781135/3
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Bicarbonate Alkalinity as CaCO3	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/12/24 16:56	1

Lab Sample ID: LCS 500-781135/4
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-779810/1
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			08/05/24 00:12	1

Lab Sample ID: LCS 500-779810/2
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-780310/1
Matrix: Water
Analysis Batch: 780310

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/07/24 14:01	1

Lab Sample ID: LCS 500-780310/2
Matrix: Water
Analysis Batch: 780310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	174		mg/L		87	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-780362/1
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			08/07/24 19:12	1

Lab Sample ID: LCS 500-780362/2
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.56		mg/L		98	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-781985/31
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/16/24 01:11	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 500-781985/32
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.2		mg/L		102	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-781988/7
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			08/15/24 13:59	1

Lab Sample ID: LCS 500-781988/8
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254426-1

Client Sample ID: BNW-01_20240731

Date Collected: 07/31/24 13:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254426-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2564	AJD	EET SSM	08/15/24 10:55
Dissolved	Analysis	1630		1	2572	CL	EET SSM	08/15/24 20:12
Total/NA	Prep	1630			2564	AJD	EET SSM	08/15/24 10:55
Total/NA	Analysis	1630		1	2572	CL	EET SSM	08/15/24 20:01
Dissolved	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 19:44
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 19:40
Dissolved	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Dissolved	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 15:01
Total Recoverable	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Total Recoverable	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 15:44
Dissolved	Prep	3005A			781802	BDE	EET CHI	08/16/24 08:49 - 08/16/24 14:49 [1]
Dissolved	Analysis	6020B		1	782541	RN	EET CHI	08/20/24 17:30
Dissolved	Prep	3005A			781802	BDE	EET CHI	08/16/24 08:49 - 08/16/24 14:49 [1]
Dissolved	Analysis	6020B		1	782735	RN	EET CHI	08/21/24 14:41
Total Recoverable	Prep	3005A			781802	BDE	EET CHI	08/16/24 08:49 - 08/16/24 14:49 [1]
Total Recoverable	Analysis	6020B		1	782541	RN	EET CHI	08/20/24 17:23
Total Recoverable	Prep	3005A			781802	BDE	EET CHI	08/16/24 08:49 - 08/16/24 14:49 [1]
Total Recoverable	Analysis	6020B		1	782735	RN	EET CHI	08/21/24 14:38
Total Recoverable	Prep	3005A			781802	BDE	EET CHI	08/16/24 08:49 - 08/16/24 14:49 [1]
Total Recoverable	Analysis	SM 2340B		1	782558	DAJ	EET CHI	08/21/24 09:16
Total/NA	Analysis	300.0		1	780094	W1T	EET CHI	08/06/24 12:57
Total/NA	Analysis	300.0		1	780095	W1T	EET CHI	08/06/24 12:57
Total/NA	Analysis	300.0		1	779674	W1T	EET CHI	08/02/24 12:01
Total/NA	Analysis	300.0		1	779675	W1T	EET CHI	08/02/24 12:01
Total/NA	Prep	Distill/CN			780769	AC	EET CHI	08/12/24 09:21 - 08/12/24 09:51 [1]
Total/NA	Analysis	335.4		1	780985	AC	EET CHI	08/12/24 12:22
Total/NA	Prep	Distill/Ammonia			782364	EB	EET CHI	08/20/24 11:33 - 08/20/24 12:33 [1]
Total/NA	Analysis	350.1		1	782798	KF	EET CHI	08/22/24 10:43
Total/NA	Prep	365.2/365.3/365			780983	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:46 [1]
Total/NA	Analysis	365.1		1	783024	LP	EET CHI	08/16/24 13:46
Total/NA	Analysis	SM 2320B		1	781135	SO	EET CHI	08/12/24 18:32
Total/NA	Analysis	SM 2520B		1	782060	TR	EET CHI	08/19/24 08:00
Total/NA	Analysis	SM 2540C		1	779810	CLB	EET CHI	08/05/24 00:48
Total/NA	Analysis	SM 2540D		1	780310	SO	EET CHI	08/07/24 16:23 - 08/07/24 16:35 [1]
Total/NA	Analysis	SM 4500 S2 F		1	780362	CLB	EET CHI	08/07/24 20:12 - 08/07/24 20:16 [1]
Dissolved	Analysis	SM 5310C		1	781988	TR	EET CHI	08/15/24 16:47
Total/NA	Analysis	SM 5310C		1	781985	TR	EET CHI	08/16/24 02:06

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254426-1

Client Sample ID: BNW-01_20240731_FBLL

Date Collected: 07/31/24 13:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254426-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 19:48

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254426-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: JED CHRESTENSEN	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1508	COC No: 500-126351-50241 25
Client Contact: Amanda Zeidler	Phone: 906-281-4726	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254426
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

Other: 500-254426 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC SM5310	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, ~~9056_CR_B~~, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	~~9056_CR_B - Dissolved Chromium, Hex (field filtered)~~	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	N		
1	BNW-01_20240731	7-31-24	13:00	G	Water			X	X	X	X	X	X	X	X	X	X	X		X	18	
2	BNW-01_20240731_FBLL	7-31-24	13:00	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/31/24 17:30	MSG		7/31/24 1730	MSG
2		8/1/24 1600	MSG	4051 7962 1508	8/1/24 1600	Fedex
3		Date/Time	Company	Stephanie Hernandez	8/2/24 0965	EEIA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.9+2.8

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: JES CHRESTENSEN	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1508	COC No: 500-126351-50241 26
Client Contact: Amanda Zeidler	Phone: 906-281-4726	E Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254426
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S - H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
1 BNW-01_20240731	7-31-24	13:00	G	Water			X	1	
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/31/24 17:30	MSG		7/31/24 1730	MSG
2		8/1/24 1600	MSG	4051 7962 1508	8/1/24 1600	Fedex
3		Date/Time	Company	Stephanie Hernandez	8/2/24 0965	EEHA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks.



500-254426 Waybi

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-191252.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-254426-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/22/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: White Pines, MI	Project #: 50023455			
Site	SSOW#			Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
BNW-01_20240731 (500-254426-1)	7/31/24	13:00 Eastern		Water			X	X	X	X	X	X	8	
BNW-01_20240731_FBLL (500-254426-2)	7/31/24	13:00 Eastern		Water				X					2	

Therm. ID: SC07 Cust. Seal: Ø / N
Uncorr./Corr. Temp: 0.3 / 0.3 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: VL Packing: B

Therm. ID: SC02 Cust. Seal: Ø / N
Uncorr./Corr. Temp: 0.2 / 0.2 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: VL Packing: D

Therm. ID: SC02 Cust. Seal: Ø / N
Uncorr./Corr. Temp: 0.5 / 0.5 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: ____ Packing: D

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. It is the client's responsibility to maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed 7051 7670 5212	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Ron Scott	8/5/24 0900			8/6/24 10:10	ESC
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-191251.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-254425-1
Address: 5755 8th Street East,	Due Date Requested: 8/22/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: White Pines, MI	Project #: 50023455			
Site	SSOW#			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
TBN-01_20240731 (500-254425-1)	7/31/24	11:30 Eastern		Water			X	X	X	X	X	X	8	
TBN-01_20240731_FBLL (500-254425-2)	7/31/24	11:30 Eastern		Water				X					2	

Therm. ID: SC02 Cust. Seal: Y / N
Uncorr./Corr. Temp: 0.3 / 0.3 °C
Delivery: UPS / FedEx / Other
Ice Type: Blue / Dry / Wet / None
Label Ver. Packing: B

Therm. ID: SC02 Cust. Seal: Y / N
Uncorr./Corr. Temp: 0.2 / 0.2 °C
Delivery: UPS / FedEx / Other
Ice Type: Blue / Dry / Wet / None
Label Ver. Packing: B

Therm. ID: SC02 Cust. Seal: Y / N
Uncorr./Corr. Temp: 0.5 / 0.5 °C
Delivery: UPS / FedEx / Other
Ice Type: Blue / Dry / Wet / None
Label Ver. Packing: B

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed 7051 7670 5212	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/5/24 0900		[signature]	8/6/24 10:14	[illegible]
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254426-1

Login Number: 254426
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254426-1

Login Number: 254426
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 08/06/24 01:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254426 Field Sheet

Date:	8/6/2024
End Time:	13:42
pH Paper Lot:	hc324723
Analyst:	IR

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254426-J-1	≤2				
500-254426-K-1	≤2				
500-254426-E-1	≤2				
500-254426-F-1	≤2				

IR 8/6/24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

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JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254427-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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Authorized for release by
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Job Narrative
500-254427-1

Receipt
The samples were received on 08/02/24 09:55. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.0º C.

Metals
Method 6020B: The linear range check (LRC) for batch 782541 recovered outside of control limits for Lithium. Sample results for this analyte were within the high calibration standard therefore data has been qualified and reported. (LRC 500-782541/13)

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- Initial blank level (Incomplete Integration)
- 500-254427-E-1-A (Incomplete Integration)
- CCB (Instrument Noise)

Method 1638: The continuing calibration blank (CCB) for analytical batch 350-2539 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The following sample was analyzed outside of analytical holding time MW-43_20240731 (500-254427-1).

Method 300.0: The method blank for analytical batch 500-780095 contained Nitrate as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM 2320B: The method blank for analytical batch 500-781135 contained Alkalinity and Bicarbonate Alkalinity as CaCO3 above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 365.1: The method blank for preparation batch 500-783635 and analytical batch 500-783821 contained Phosphorus as P above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 365.1: Reanalysis of the following sample was performed outside of the analytical holding time due to QC failures and low bias during initial analysis. Reanalysis obtained results above our MDL but below our RL. Therefore, initial analysis has been confirmed and reported as Primary: MW-43_20240731 (500-254427-1).

Method 365.1: Reanalysis performed outside analytical holding time obtained results above MDL but below RL. Therefore, initial analysis has been confirmed and reported as Primary: MW-43_20240731 (500-254427-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254427-1

Client Sample ID: MW-43_20240731 — Lab Sample ID: 500-254427-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.50		0.50	0.20	ng/L	1		1631E	Total/NA
Uranium	68	B	0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	67	B	0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	140		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	1.2		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	500		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	85	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	19000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	0.71	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	3.0		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	290		100	47	ug/L	1		6020B	Total Recoverable
Lithium	43	^5-	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	1300		200	49	ug/L	1		6020B	Total Recoverable
Manganese	4400		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	8.7		5.0	2.5	ug/L	1		6020B	Total Recoverable
Nickel	0.64	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	250	J	500	110	ug/L	1		6020B	Total Recoverable
Sodium	98000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	380	B	4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	44		5.0	2.2	ug/L	1		6020B	Total Recoverable
Arsenic	0.69	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	160		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	82	B	50	13	ug/L	1		6020B	Dissolved
Calcium	19000		200	44	ug/L	1		6020B	Dissolved
Lithium	41	^5-	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	1200		200	49	ug/L	1		6020B	Dissolved
Manganese	39		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	7.1		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	220	J	500	110	ug/L	1		6020B	Dissolved
Sodium	98000		200	77	ug/L	1		6020B	Dissolved
Strontium	370	B	4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	15		5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	53		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	1.0		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.36	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	9.6		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	260	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-43_20240731 (Continued) — Lab Sample ID: 500-254427-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO3	260	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	>0.33		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	290		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	2.2	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	0.87	J	1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	1.0		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-43_20240731_FBLL — Lab Sample ID: 500-254427-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254427-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254427-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254427-1	MW-43_20240731	Water	07/31/24 13:00	08/02/24 09:55
500-254427-2	MW-43_20240731_FBLL	Water	07/31/24 13:00	08/02/24 09:55

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254427-1

Client Sample ID: MW-43_20240731

Date Collected: 07/31/24 13:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254427-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 20:22	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 20:32	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.50**		0.50	0.20	ng/L			08/08/24 19:27	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 19:31	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**68**	**B**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 15:48	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**67**	**B**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 15:04	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**140**		100	25	ug/L		08/16/24 08:49	08/20/24 17:32	1
Antimony	<1.3		3.0	1.3	ug/L		08/16/24 08:49	08/20/24 17:32	1
Arsenic	**1.2**		1.0	0.23	ug/L		08/16/24 08:49	08/20/24 17:32	1
Barium	**500**		2.5	0.73	ug/L		08/16/24 08:49	08/20/24 17:32	1
Beryllium	<0.53		1.0	0.53	ug/L		08/16/24 08:49	08/20/24 17:32	1
Boron	**85**	**B**	50	13	ug/L		08/16/24 08:49	08/21/24 14:43	1
Cadmium	<0.17		0.50	0.17	ug/L		08/16/24 08:49	08/20/24 17:32	1
Calcium	**19000**		200	44	ug/L		08/16/24 08:49	08/20/24 17:32	1
Chromium	<1.1		5.0	1.1	ug/L		08/16/24 08:49	08/20/24 17:32	1
Cobalt	**0.71**	**J**	1.0	0.40	ug/L		08/16/24 08:49	08/20/24 17:32	1
Copper	**3.0**		2.0	0.50	ug/L		08/16/24 08:49	08/20/24 17:32	1
Iron	**290**		100	47	ug/L		08/16/24 08:49	08/20/24 17:32	1
Lead	<0.19		0.50	0.19	ug/L		08/16/24 08:49	08/20/24 17:32	1
Lithium	**43**	**^5-**	10	2.5	ug/L		08/16/24 08:49	08/20/24 17:32	1
Magnesium	**1300**		200	49	ug/L		08/16/24 08:49	08/20/24 17:32	1
Manganese	**4400**		2.5	0.79	ug/L		08/16/24 08:49	08/20/24 17:32	1
Molybdenum	**8.7**		5.0	2.5	ug/L		08/16/24 08:49	08/20/24 17:32	1
Nickel	**0.64**	**J**	2.0	0.63	ug/L		08/16/24 08:49	08/20/24 17:32	1
Potassium	**250**	**J**	500	110	ug/L		08/16/24 08:49	08/20/24 17:32	1
Selenium	<0.98		2.5	0.98	ug/L		08/16/24 08:49	08/20/24 17:32	1
Silver	<0.12		0.50	0.12	ug/L		08/16/24 08:49	08/20/24 17:32	1
Sodium	**98000**		200	77	ug/L		08/16/24 08:49	08/20/24 17:32	1
Strontium	**380**	**B**	4.0	0.64	ug/L		08/16/24 08:49	08/20/24 17:32	1
Thallium	<0.57		2.0	0.57	ug/L		08/16/24 08:49	08/20/24 17:32	1
Tin	<1.3		5.0	1.3	ug/L		08/16/24 08:49	08/20/24 17:32	1
Vanadium	**44**		5.0	2.2	ug/L		08/16/24 08:49	08/20/24 17:32	1
Zinc	<6.9		20	6.9	ug/L		08/16/24 08:49	08/20/24 17:32	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254427-1

Client Sample ID: MW-43_20240731

Date Collected: 07/31/24 13:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254427-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/16/24 08:49	08/20/24 17:34	1
Antimony	<1.3		3.0	1.3	ug/L		08/16/24 08:49	08/20/24 17:34	1
Arsenic	**0.69**	**J**	1.0	0.23	ug/L		08/16/24 08:49	08/20/24 17:34	1
Barium	**160**		2.5	0.73	ug/L		08/16/24 08:49	08/20/24 17:34	1
Beryllium	<0.53		1.0	0.53	ug/L		08/16/24 08:49	08/20/24 17:34	1
Boron	**82**	**B**	50	13	ug/L		08/16/24 08:49	08/21/24 14:45	1
Cadmium	<0.17		0.50	0.17	ug/L		08/16/24 08:49	08/20/24 17:34	1
Calcium	**19000**		200	44	ug/L		08/16/24 08:49	08/20/24 17:34	1
Chromium	<1.1		5.0	1.1	ug/L		08/16/24 08:49	08/20/24 17:34	1
Cobalt	<0.40		1.0	0.40	ug/L		08/16/24 08:49	08/20/24 17:34	1
Copper	<0.50		2.0	0.50	ug/L		08/16/24 08:49	08/20/24 17:34	1
Iron	<47		100	47	ug/L		08/16/24 08:49	08/20/24 17:34	1
Lead	<0.19		0.50	0.19	ug/L		08/16/24 08:49	08/20/24 17:34	1
Lithium	**41**	**^5-**	10	2.5	ug/L		08/16/24 08:49	08/20/24 17:34	1
Magnesium	**1200**		200	49	ug/L		08/16/24 08:49	08/20/24 17:34	1
Manganese	**39**		2.5	0.79	ug/L		08/16/24 08:49	08/20/24 17:34	1
Molybdenum	**7.1**		5.0	2.5	ug/L		08/16/24 08:49	08/20/24 17:34	1
Nickel	<0.63		2.0	0.63	ug/L		08/16/24 08:49	08/20/24 17:34	1
Potassium	**220**	**J**	500	110	ug/L		08/16/24 08:49	08/20/24 17:34	1
Selenium	<0.98		2.5	0.98	ug/L		08/16/24 08:49	08/20/24 17:34	1
Silver	<0.12		0.50	0.12	ug/L		08/16/24 08:49	08/20/24 17:34	1
Sodium	**98000**		200	77	ug/L		08/16/24 08:49	08/20/24 17:34	1
Strontium	**370**	**B**	4.0	0.64	ug/L		08/16/24 08:49	08/20/24 17:34	1
Thallium	<0.57		2.0	0.57	ug/L		08/16/24 08:49	08/20/24 17:34	1
Tin	<1.3		5.0	1.3	ug/L		08/16/24 08:49	08/20/24 17:34	1
Vanadium	**15**		5.0	2.2	ug/L		08/16/24 08:49	08/20/24 17:34	1
Zinc	<6.9		20	6.9	ug/L		08/16/24 08:49	08/20/24 17:34	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**53**		0.91	0.46	mg/L		08/16/24 08:49	08/21/24 09:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			08/02/24 12:17	1
Nitrate as N (EPA 300.0)	<0.043	H	1.0	0.043	mg/L			08/06/24 13:13	1
Chloride (EPA 300.0)	**1.0**		1.0	0.12	mg/L			08/06/24 13:13	1
Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			08/02/24 12:17	1
Fluoride (EPA 300.0)	**0.36**	**J**	1.0	0.19	mg/L			08/02/24 12:17	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			08/02/24 12:17	1
Sulfate (EPA 300.0)	**9.6**		1.0	0.21	mg/L			08/02/24 12:17	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:24	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:43	1
Phosphorus as P (EPA 365.1)	<0.024	^1- *-	0.050	0.024	mg/L		08/13/24 11:40	08/16/24 13:46	1
Alkalinity (SM 2320B)	**260**	**B**	5.0	3.7	mg/L			08/12/24 18:41	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**260**	**B**	5.0	3.7	mg/L			08/12/24 18:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/12/24 18:41	1
Salinity (SM 2520B)	**>0.33**		0.33	0.33	psu			08/19/24 08:00	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254427-1

Client Sample ID: MW-43_20240731
Date Collected: 07/31/24 13:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254427-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	290		10	4.3	mg/L			08/05/24 00:50	1
Total Suspended Solids (SM 2540D)	2.2	J	5.0	1.9	mg/L			08/07/24 16:11	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			08/07/24 20:16	1
Total Organic Carbon (SM 5310C)	0.87	J	1.0	0.47	mg/L			08/16/24 02:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	1.0		1.0	0.47	mg/L			08/15/24 17:15	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254427-1

Client Sample ID: MW-43_20240731_FBLL
Date Collected: 07/31/24 13:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254427-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 19:36	1

Qualifiers

Metals

Qualifier	Qualifier Description
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Dissolved	Water	1638	
500-254427-1	MW-43_20240731	Total Recoverable	Water	1638	
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Dissolved	Water	1631E	
500-254427-1	MW-43_20240731	Total/NA	Water	1631E	
500-254427-2	MW-43_20240731_FBLL	Total/NA	Water	1631E	
MB 350-2531/25	Method Blank	Total/NA	Water	1631E	
MB 350-2531/26	Method Blank	Total/NA	Water	1631E	
MB 350-2531/27	Method Blank	Total/NA	Water	1631E	
LCS 350-2531/32	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2531/35	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Dissolved	Water	1638	2524
500-254427-1	MW-43_20240731	Total Recoverable	Water	1638	2524
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	2524
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	2524
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	2524
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2524

Prep Batch: 2564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Dissolved	Water	1630	
500-254427-1	MW-43_20240731	Total/NA	Water	1630	
MB 350-2564/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2564/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2564/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2564/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2564/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 2572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Dissolved	Water	1630	2564
500-254427-1	MW-43_20240731	Total/NA	Water	1630	2564
MB 350-2564/1-A	Method Blank	Total/NA	Water	1630	2564
MB 350-2564/2-A	Method Blank	Total/NA	Water	1630	2564
MB 350-2564/3-A	Method Blank	Total/NA	Water	1630	2564
LCS 350-2564/4-A	Lab Control Sample	Total/NA	Water	1630	2564
LCSD 350-2564/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2564

Prep Batch: 781802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Dissolved	Water	3005A	
500-254427-1	MW-43_20240731	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 781802 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-781802/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781802/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 782541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Dissolved	Water	6020B	781802
500-254427-1	MW-43_20240731	Total Recoverable	Water	6020B	781802
MB 500-781802/1-A	Method Blank	Total Recoverable	Water	6020B	781802
LCS 500-781802/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781802

Analysis Batch: 782559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total Recoverable	Water	SM 2340B	781802

Analysis Batch: 782735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Dissolved	Water	6020B	781802
500-254427-1	MW-43_20240731	Total Recoverable	Water	6020B	781802

General Chemistry

Analysis Batch: 779674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	300.0	
MB 500-779674/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779674/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	300.0	
MB 500-779675/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779675/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	SM 2540C	
MB 500-779810/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779810/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 780094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	300.0	
MB 500-780094/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780094/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	300.0	
MB 500-780095/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780095/4	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 780310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	SM 2540D	
MB 500-780310/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-780310/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 780362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	SM 4500 S2 F	
MB 500-780362/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-780362/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Prep Batch: 780769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	Distill/CN	
MB 500-780769/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Prep Batch: 780983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	365.2/365.3/365	
MB 500-780983/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-780983/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 780985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	335.4	780769
MB 500-780769/1-A	Method Blank	Total/NA	Water	335.4	780769
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	335.4	780769

Analysis Batch: 781135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	SM 2320B	
MB 500-781135/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-781135/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 781985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	SM 5310C	
MB 500-781985/31	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-781985/32	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 781988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Dissolved	Water	SM 5310C	
MB 500-781988/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-781988/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 782060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	SM 2520B	

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254427-1

General Chemistry

Prep Batch: 782364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	Distill/Ammonia	
MB 500-782364/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 782798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	350.1	782364
MB 500-782364/1-A	Method Blank	Total/NA	Water	350.1	782364
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	350.1	782364

Analysis Batch: 783024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254427-1	MW-43_20240731	Total/NA	Water	365.1	780983
MB 500-780983/1-A	Method Blank	Total/NA	Water	365.1	780983
LCS 500-780983/2-A	Lab Control Sample	Total/NA	Water	365.1	780983

Prep Batch: 783635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 783821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.1	783635
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.1	783635

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2564/1-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 17:28	1

Lab Sample ID: MB 350-2564/2-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 17:39	1

Lab Sample ID: MB 350-2564/3-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 17:49	1

Lab Sample ID: LCS 350-2564/4-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	1.01		ng/L		101	65 - 135

Lab Sample ID: LCSD 350-2564/5-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2564

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.969		ng/L		97	65 - 135	5	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2531/25
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:20	1

Lab Sample ID: MB 350-2531/26
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:24	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2531/27
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:29	1

Lab Sample ID: LCS 350-2531/32
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.83		ng/L		97	77 - 123

Lab Sample ID: LCSD 350-2531/35
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.82		ng/L		96	77 - 123	0	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2524/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0219	J	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:12	1

Lab Sample ID: MB 350-2524/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:15	1

Lab Sample ID: LCS 350-2524/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.3		ug/L		89	85 - 115

Lab Sample ID: LCSD 350-2524/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781802/1-A
Matrix: Water
Analysis Batch: 782541

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/16/24 08:49	08/20/24 16:22	1
Antimony	<1.3		3.0	1.3	ug/L		08/16/24 08:49	08/20/24 16:22	1
Arsenic	<0.23		1.0	0.23	ug/L		08/16/24 08:49	08/20/24 16:22	1
Barium	<0.73		2.5	0.73	ug/L		08/16/24 08:49	08/20/24 16:22	1
Beryllium	<0.53		1.0	0.53	ug/L		08/16/24 08:49	08/20/24 16:22	1
Boron	28.9	J	50	13	ug/L		08/16/24 08:49	08/20/24 16:22	1
Cadmium	<0.17		0.50	0.17	ug/L		08/16/24 08:49	08/20/24 16:22	1
Calcium	<44		200	44	ug/L		08/16/24 08:49	08/20/24 16:22	1
Chromium	<1.1		5.0	1.1	ug/L		08/16/24 08:49	08/20/24 16:22	1
Cobalt	<0.40		1.0	0.40	ug/L		08/16/24 08:49	08/20/24 16:22	1
Copper	<0.50		2.0	0.50	ug/L		08/16/24 08:49	08/20/24 16:22	1
Iron	<47		100	47	ug/L		08/16/24 08:49	08/20/24 16:22	1
Lead	<0.19		0.50	0.19	ug/L		08/16/24 08:49	08/20/24 16:22	1
Lithium	<2.5	^5-	10	2.5	ug/L		08/16/24 08:49	08/20/24 16:22	1
Magnesium	<49		200	49	ug/L		08/16/24 08:49	08/20/24 16:22	1
Manganese	<0.79		2.5	0.79	ug/L		08/16/24 08:49	08/20/24 16:22	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/16/24 08:49	08/20/24 16:22	1
Nickel	<0.63		2.0	0.63	ug/L		08/16/24 08:49	08/20/24 16:22	1
Potassium	<110		500	110	ug/L		08/16/24 08:49	08/20/24 16:22	1
Selenium	<0.98		2.5	0.98	ug/L		08/16/24 08:49	08/20/24 16:22	1
Silver	<0.12		0.50	0.12	ug/L		08/16/24 08:49	08/20/24 16:22	1
Sodium	<77		200	77	ug/L		08/16/24 08:49	08/20/24 16:22	1
Strontium	1.63	J	4.0	0.64	ug/L		08/16/24 08:49	08/20/24 16:22	1
Thallium	<0.57		2.0	0.57	ug/L		08/16/24 08:49	08/20/24 16:22	1
Tin	<1.3		5.0	1.3	ug/L		08/16/24 08:49	08/20/24 16:22	1
Vanadium	<2.2		5.0	2.2	ug/L		08/16/24 08:49	08/20/24 16:22	1
Zinc	<6.9		20	6.9	ug/L		08/16/24 08:49	08/20/24 16:22	1

Lab Sample ID: LCS 500-781802/2-A
Matrix: Water
Analysis Batch: 782541

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1910		ug/L		96	80 - 120
Antimony	500	497		ug/L		99	80 - 120
Arsenic	100	99.2		ug/L		99	80 - 120
Barium	500	497		ug/L		99	80 - 120
Beryllium	50.0	51.1		ug/L		102	80 - 120
Boron	1000	1020		ug/L		102	80 - 120
Cadmium	50.0	50.3		ug/L		101	80 - 120
Calcium	10000	8580		ug/L		86	80 - 120
Chromium	200	199		ug/L		100	80 - 120
Cobalt	500	512		ug/L		102	80 - 120
Copper	250	249		ug/L		100	80 - 120
Iron	1000	1020		ug/L		102	80 - 120
Lead	100	99.7		ug/L		100	80 - 120
Lithium	100	99.6	^5-	ug/L		100	80 - 120
Magnesium	10000	10100		ug/L		101	80 - 120
Manganese	500	506		ug/L		101	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781802/2-A
Matrix: Water
Analysis Batch: 782541

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	1000	968		ug/L		97	80 - 120
Nickel	500	507		ug/L		101	80 - 120
Potassium	10000	10000		ug/L		100	80 - 120
Selenium	100	100		ug/L		100	80 - 120
Silver	50.0	50.2		ug/L		100	80 - 120
Sodium	10000	9920		ug/L		99	80 - 120
Strontium	1000	967		ug/L		97	80 - 120
Thallium	100	102		ug/L		102	80 - 120
Tin	1000	978		ug/L		98	80 - 120
Vanadium	500	491		ug/L		98	80 - 120
Zinc	500	507		ug/L		101	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-779674/3
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			08/02/24 11:30	1
Fluoride	<0.19		1.0	0.19	mg/L			08/02/24 11:30	1
Sulfate	<0.21		1.0	0.21	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779674/4
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	18.6		mg/L		93	90 - 110
Fluoride	20.0	20.6		mg/L		103	90 - 110
Sulfate	20.0	21.5		mg/L		107	90 - 110

Lab Sample ID: MB 500-779675/3
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779675/4
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	20.0	20.9		mg/L		104	90 - 110
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-780094/3
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/06/24 12:27	1

Lab Sample ID: LCS 500-780094/4
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.4		mg/L		97	90 - 110

Lab Sample ID: MB 500-780095/3
Matrix: Water
Analysis Batch: 780095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.113	J	1.0	0.043	mg/L			08/06/24 12:27	1

Lab Sample ID: LCS 500-780095/4
Matrix: Water
Analysis Batch: 780095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	20.2		mg/L		101	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780769/1-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:19	1

Lab Sample ID: LCS 500-780769/2-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.105		mg/L		105	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-782364/1-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:35	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 500-782364/2-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.02		mg/L		101	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-780983/1-A
Matrix: Water
Analysis Batch: 783024

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024	^1-	0.050	0.024	mg/L		08/13/24 11:40	08/16/24 13:41	1

Lab Sample ID: LCS 500-780983/2-A
Matrix: Water
Analysis Batch: 783024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	0.500	0.425	^1- *-	mg/L		85	88 - 123

Lab Sample ID: MB 500-783635/1-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	0.0260	J	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:37	1

Lab Sample ID: LCS 500-783635/2-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.918		mg/L		92	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-781135/3
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Bicarbonate Alkalinity as CaCO3	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/12/24 16:56	1

Lab Sample ID: LCS 500-781135/4
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-779810/1
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			08/05/24 00:12	1

Lab Sample ID: LCS 500-779810/2
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-780310/1
Matrix: Water
Analysis Batch: 780310

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/07/24 14:01	1

Lab Sample ID: LCS 500-780310/2
Matrix: Water
Analysis Batch: 780310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	174		mg/L		87	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-780362/1
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			08/07/24 19:12	1

Lab Sample ID: LCS 500-780362/2
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.56		mg/L		98	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-781985/31
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/16/24 01:11	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 500-781985/32
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.2		mg/L		102	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-781988/7
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			08/15/24 13:59	1

Lab Sample ID: LCS 500-781988/8
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254427-1

Client Sample ID: MW-43_20240731

Date Collected: 07/31/24 13:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254427-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2564	AJD	EET SSM	08/15/24 10:55
Dissolved	Analysis	1630		1	2572	CL	EET SSM	08/15/24 20:32
Total/NA	Prep	1630			2564	AJD	EET SSM	08/15/24 10:55
Total/NA	Analysis	1630		1	2572	CL	EET SSM	08/15/24 20:22
Dissolved	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 19:31
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 19:27
Dissolved	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Dissolved	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 15:04
Total Recoverable	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Total Recoverable	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 15:48
Dissolved	Prep	3005A			781802	BDE	EET CHI	08/16/24 08:49 - 08/16/24 14:49 [1]
Dissolved	Analysis	6020B		1	782541	RN	EET CHI	08/20/24 17:34
Dissolved	Prep	3005A			781802	BDE	EET CHI	08/16/24 08:49 - 08/16/24 14:49 [1]
Dissolved	Analysis	6020B		1	782735	RN	EET CHI	08/21/24 14:45
Total Recoverable	Prep	3005A			781802	BDE	EET CHI	08/16/24 08:49 - 08/16/24 14:49 [1]
Total Recoverable	Analysis	6020B		1	782541	RN	EET CHI	08/20/24 17:32
Total Recoverable	Prep	3005A			781802	BDE	EET CHI	08/16/24 08:49 - 08/16/24 14:49 [1]
Total Recoverable	Analysis	6020B		1	782735	RN	EET CHI	08/21/24 14:43
Total Recoverable	Prep	3005A			781802	BDE	EET CHI	08/16/24 08:49 - 08/16/24 14:49 [1]
Total Recoverable	Analysis	SM 2340B		1	782559	DAJ	EET CHI	08/21/24 09:16
Total/NA	Analysis	300.0		1	780094	W1T	EET CHI	08/06/24 13:13
Total/NA	Analysis	300.0		1	780095	W1T	EET CHI	08/06/24 13:13
Total/NA	Analysis	300.0		1	779674	W1T	EET CHI	08/02/24 12:17
Total/NA	Analysis	300.0		1	779675	W1T	EET CHI	08/02/24 12:17
Total/NA	Prep	Distill/CN			780769	AC	EET CHI	08/12/24 09:21 - 08/12/24 09:51 [1]
Total/NA	Analysis	335.4		1	780985	AC	EET CHI	08/12/24 12:24
Total/NA	Prep	Distill/Ammonia			782364	EB	EET CHI	08/20/24 11:33 - 08/20/24 12:33 [1]
Total/NA	Analysis	350.1		1	782798	KF	EET CHI	08/22/24 10:43
Total/NA	Prep	365.2/365.3/365			780983	NSJ	EET CHI	08/13/24 11:40 - 08/13/24 15:46 [1]
Total/NA	Analysis	365.1		1	783024	LP	EET CHI	08/16/24 13:46
Total/NA	Analysis	SM 2320B		1	781135	SO	EET CHI	08/12/24 18:41
Total/NA	Analysis	SM 2520B		1	782060	TR	EET CHI	08/19/24 08:00
Total/NA	Analysis	SM 2540C		1	779810	CLB	EET CHI	08/05/24 00:50
Total/NA	Analysis	SM 2540D		1	780310	SO	EET CHI	08/07/24 16:11 - 08/07/24 16:23 [1]
Total/NA	Analysis	SM 4500 S2 F		1	780362	CLB	EET CHI	08/07/24 20:16 - 08/07/24 20:20 [1]
Dissolved	Analysis	SM 5310C		1	781988	TR	EET CHI	08/15/24 17:15
Total/NA	Analysis	SM 5310C		1	781985	TR	EET CHI	08/16/24 02:34

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254427-1

Client Sample ID: MW-43_20240731_FBLL

Date Collected: 07/31/24 13:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254427-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 19:36

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254427-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Copperwell	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1482	COC No: 500-126351-50241 53
Client Contact: Amanda Zeidler	Phone: 517 513 2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254427
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

500-254427 COC

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC SM5310	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, ~~300_CR_B~~, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	~~3500_CR_B - Dissolved Chromium, Hex (field filtered)~~	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	N		
1 MW-43_20240731	7-31-24	1300	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	18	
2 MW-43_20240731-FBLK	7-31-24	1300	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	7/31/24 2100	MSG		7/31/24 2100	MSG
2		8/1/24 1600	MSG	405179621482	8/1/24 1200	fedex
3		Date/Time	Company	Stephanie Hernandez	8/2/24 0955	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 4.1+4.0

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1482	COC No: 500-126351-50241 54
Client Contact: Amanda Zeidler	Phone: 517 513 2249	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254427
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A - HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
1 MW-43_20240731	7 31.24	1300	G	Water			X	1	
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	7/31/24 2100	MSG		7/31/24 2100	MSG
2		8/1/24 1600	MSG	4051 7962 1482	8/1/24 1600	Fedex
3		Date/Time	Company	Received by: Stephanie Hernandez	Date/Time: 8/2/24 0925	Company EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks.


HE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
CAD 07803077/CAFE0C08
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
REF:
INV
PO:
DEPT:
RMA
FedEx
Express
TR 02
TRK# 0221 4051 7962 1482
FRI - 02 AUG AA
PRIORITY OVERNIGHT
XP JOTA
60484
IL-US
ORD
5025547 01Aug2024 CMXA 581G6/A12D/C0B8


500-254427 Waybi

48at

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254427-1

Login Number: 254427
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254427-1

Login Number: 254427
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 08/06/24 01:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254427 Field Sheet

Date:	8/6/2024
End Time:	13:42
pH Paper Lot:	hc324723
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254427-J-1	<2				
500-254427-K-1	<2				
500-254427-E-1	<2				
500-254427-F-1	<2				

8/6/24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/29/2024 7:52:15 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254428-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/29/2024 7:52:15 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254428-1

Receipt
The samples were received on 8/2/2024 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9º C.

Metals
Method 6020B: The initial low level calibration verification (ICVL) result for batch 500-782080 was above the upper control limit. The affected analytes are: Lead. Sample results were below the reporting limit, and have been reported as qualified data.

Method 6020B: The continuing calibration verification (CCV) associated with batch 500-782311 recovered above the upper control limit for Boron. The samples results associated with this CCV were below the reporting limit for the affected analytes or QC samples that recovered within control limits; therefore, the data have been reported.

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- CCB (Incomplete Integration)

Methods 1638, 200.8 LL: The continuing calibration blank (CCB) for analytical batch 350-2539 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Methods 300.0, 9056A: The method blank for analytical batch 500-780095 contained Nitrate as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM 2320B: The method blank for analytical batch 500-781135 contained Alkalinity and Bicarbonate Alkalinity as CaCO3 above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 365.1: The method blank for preparation batch 500-783635 and analytical batch 500-783821 contained Phosphorus as P above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 365.1: Reanalysis of the following sample(s) was performed outside of the analytical holding time - re-preparation to confirm initial results: ARC-01_20240731 (500-254428-1).

Method 300.0: The continuing calibration verification (CCV) associated with batch 500-779675 recovered below the lower control limit for Nitrate as N. The samples associated with this CCV were rerun with confirming results ; therefore, the data have been reported. ARC-01_20240731 (500-254428-1), (LCS 500-779675/4) and (MB 500-779675/3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254428-1

Client Sample ID: ARC-01_20240731 — Lab Sample ID: 500-254428-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.036	J	0.050	0.022	ng/L	1		1630	Total/NA
Mercury	2.5		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	1.6		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.068	B	0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.072	B	0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	130		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.67	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	35		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	31	J B ^+	50	13	ug/L	1		6020B	Total Recoverable
Calcium	25000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	0.67	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	2.3		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	1600		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	6200		200	49	ug/L	1		6020B	Total Recoverable
Manganese	450		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1200		500	110	ug/L	1		6020B	Total Recoverable
Sodium	2000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	63		4.0	0.64	ug/L	1		6020B	Total Recoverable
Aluminum	74	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.64	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	34		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	30	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	25000		200	44	ug/L	1		6020B	Dissolved
Cobalt	0.45	J	1.0	0.40	ug/L	1		6020B	Dissolved
Copper	2.6		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	880		100	47	ug/L	1		6020B	Dissolved
Magnesium	6300		200	49	ug/L	1		6020B	Dissolved
Manganese	300		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1300		500	110	ug/L	1		6020B	Dissolved
Sodium	2000		200	77	ug/L	1		6020B	Dissolved
Strontium	66		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	87		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	0.53	J	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.19	J	1.0	0.19	mg/L	1		300.0	Total/NA
Ammonia	0.48		0.20	0.10	mg/L	1		350.1	Total/NA
Phosphorus as P	0.064	H B	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	90	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	90	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	>0.33		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	100		10	4.3	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: ARC-01_20240731 (Continued) — Lab Sample ID: 500-254428-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	6.4		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	7.9		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	7.8		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: ARC-01_20240731_FBLL — Lab Sample ID: 500-254428-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254428-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254428-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254428-1	ARC-01_20240731	Water	07/31/24 15:00	08/02/24 09:55
500-254428-2	ARC-01_20240731_FBLL	Water	07/31/24 15:00	08/02/24 09:55

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254428-1

Client Sample ID: ARC-01_20240731
Date Collected: 07/31/24 15:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254428-1
Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.036**	**J**	0.050	0.022	ng/L		08/15/24 10:55	08/15/24 20:42	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 23:49	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.5**		0.50	0.20	ng/L			08/08/24 20:13	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.6**		0.50	0.20	ng/L			08/08/24 20:17	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.068**	**B**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 15:52	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.072**	**B**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 15:08	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**130**		100	25	ug/L		08/15/24 16:39	08/19/24 19:02	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:39	08/19/24 19:02	1
Arsenic	**0.67**	**J**	1.0	0.23	ug/L		08/15/24 16:39	08/19/24 19:02	1
Barium	**35**		2.5	0.73	ug/L		08/15/24 16:39	08/19/24 19:02	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:39	08/19/24 19:02	1
Boron	**31**	**J B ^+**	50	13	ug/L		08/15/24 16:39	08/19/24 19:02	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:39	08/19/24 19:02	1
Calcium	**25000**		200	44	ug/L		08/15/24 16:39	08/19/24 19:02	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:39	08/19/24 19:02	1
Cobalt	**0.67**	**J**	1.0	0.40	ug/L		08/15/24 16:39	08/19/24 19:02	1
Copper	**2.3**		2.0	0.50	ug/L		08/15/24 16:39	08/19/24 19:02	1
Iron	**1600**		100	47	ug/L		08/15/24 16:39	08/19/24 19:02	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 16:39	08/19/24 19:02	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 16:39	08/19/24 19:02	1
Magnesium	**6200**		200	49	ug/L		08/15/24 16:39	08/19/24 19:02	1
Manganese	**450**		2.5	0.79	ug/L		08/15/24 16:39	08/19/24 19:02	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:39	08/19/24 19:02	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:39	08/19/24 19:02	1
Potassium	**1200**		500	110	ug/L		08/15/24 16:39	08/19/24 19:02	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:39	08/19/24 19:02	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:39	08/19/24 19:02	1
Sodium	**2000**		200	77	ug/L		08/15/24 16:39	08/19/24 19:02	1
Strontium	**63**		4.0	0.64	ug/L		08/15/24 16:39	08/19/24 19:02	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:39	08/19/24 19:02	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:39	08/19/24 19:02	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:39	08/19/24 19:02	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:39	08/19/24 19:02	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254428-1

Client Sample ID: ARC-01_20240731

Date Collected: 07/31/24 15:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254428-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**74**	**J**	100	25	ug/L		08/15/24 16:28	08/16/24 17:29	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:29	1
Arsenic	**0.64**	**J**	1.0	0.23	ug/L		08/15/24 16:28	08/16/24 17:29	1
Barium	**34**		2.5	0.73	ug/L		08/15/24 16:28	08/16/24 17:29	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:28	08/16/24 17:29	1
Boron	**30**	**J B**	50	13	ug/L		08/15/24 16:28	08/16/24 17:29	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:28	08/16/24 17:29	1
Calcium	**25000**		200	44	ug/L		08/15/24 16:28	08/16/24 17:29	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:28	08/16/24 17:29	1
Cobalt	**0.45**	**J**	1.0	0.40	ug/L		08/15/24 16:28	08/16/24 17:29	1
Copper	**2.6**		2.0	0.50	ug/L		08/15/24 16:28	08/16/24 17:29	1
Iron	**880**		100	47	ug/L		08/15/24 16:28	08/16/24 17:29	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/15/24 16:28	08/16/24 17:29	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 16:28	08/16/24 17:29	1
Magnesium	**6300**		200	49	ug/L		08/15/24 16:28	08/16/24 17:29	1
Manganese	**300**		2.5	0.79	ug/L		08/15/24 16:28	08/16/24 17:29	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:28	08/16/24 17:29	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:28	08/16/24 17:29	1
Potassium	**1300**		500	110	ug/L		08/15/24 16:28	08/16/24 17:29	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:28	08/16/24 17:29	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:28	08/16/24 17:29	1
Sodium	**2000**		200	77	ug/L		08/15/24 16:28	08/16/24 17:29	1
Strontium	**66**		4.0	0.64	ug/L		08/15/24 16:28	08/16/24 17:29	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:28	08/16/24 17:29	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:29	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:28	08/16/24 17:29	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:28	08/16/24 17:29	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**87**		0.91	0.46	mg/L		08/15/24 16:39	08/19/24 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			08/02/24 12:32	1
Nitrate as N (EPA 300.0)	<0.043	^-	1.0	0.043	mg/L			08/02/24 12:32	1
Chloride (EPA 300.0)	**0.53**	**J**	1.0	0.12	mg/L			08/06/24 13:28	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/02/24 12:32	1
Fluoride (EPA 300.0)	**0.19**	**J**	1.0	0.19	mg/L			08/02/24 12:32	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/02/24 12:32	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			08/02/24 12:32	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:25	1
Ammonia (EPA 350.1)	**0.48**		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:43	1
Phosphorus as P (EPA 365.1)	**0.064**	**H B**	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:43	1
Alkalinity (SM 2320B)	**90**	**B**	5.0	3.7	mg/L			08/12/24 18:51	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**90**	**B**	5.0	3.7	mg/L			08/12/24 18:51	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/12/24 18:51	1
Salinity (SM 2520B)	**>0.33**		0.33	0.33	psu			08/19/24 08:00	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254428-1

Client Sample ID: ARC-01_20240731
Date Collected: 07/31/24 15:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254428-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	100		10	4.3	mg/L			08/05/24 00:53	1
Total Suspended Solids (SM 2540D)	6.4		5.0	1.9	mg/L			08/07/24 14:36	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			08/07/24 20:20	1
Total Organic Carbon (SM 5310C)	7.9		1.0	0.47	mg/L			08/16/24 03:02	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	7.8		1.0	0.47	mg/L			08/15/24 17:43	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254428-1

Client Sample ID: ARC-01_20240731_FBLL

Date Collected: 07/31/24 15:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254428-2

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 20:21	1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Dissolved	Water	1638	
500-254428-1	ARC-01_20240731	Total Recoverable	Water	1638	
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Prep Batch: 2525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Dissolved	Water	1630	
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 2531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Dissolved	Water	1631E	
500-254428-1	ARC-01_20240731	Total/NA	Water	1631E	
500-254428-2	ARC-01_20240731_FBLL	Total/NA	Water	1631E	
MB 350-2531/25	Method Blank	Total/NA	Water	1631E	
MB 350-2531/26	Method Blank	Total/NA	Water	1631E	
MB 350-2531/27	Method Blank	Total/NA	Water	1631E	
LCS 350-2531/32	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2531/35	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Dissolved	Water	1630	2525
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	2525
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	2525
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	2525

Analysis Batch: 2539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Dissolved	Water	1638	2524
500-254428-1	ARC-01_20240731	Total Recoverable	Water	1638	2524
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	2524
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	2524
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	2524
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2524

Prep Batch: 2564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	1630	
MB 350-2564/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2564/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2564/3-A	Method Blank	Total/NA	Water	1630	

Metals (Continued)

Prep Batch: 2564 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 350-2564/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2564/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 2572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	1630	2564
MB 350-2564/1-A	Method Blank	Total/NA	Water	1630	2564
MB 350-2564/2-A	Method Blank	Total/NA	Water	1630	2564
MB 350-2564/3-A	Method Blank	Total/NA	Water	1630	2564
LCS 350-2564/4-A	Lab Control Sample	Total/NA	Water	1630	2564
LCSD 350-2564/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2564

Prep Batch: 781714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Dissolved	Water	3005A	
MB 500-781714/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781714/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-254428-1 MS	ARC-01_20240731	Dissolved	Water	3005A	
500-254428-1 MSD	ARC-01_20240731	Dissolved	Water	3005A	
500-254428-1 DU	ARC-01_20240731	Dissolved	Water	3005A	

Prep Batch: 781716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total Recoverable	Water	3005A	
MB 500-781716/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781716/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-254428-1 MS	ARC-01_20240731	Total Recoverable	Water	3005A	
500-254428-1 MSD	ARC-01_20240731	Total Recoverable	Water	3005A	
500-254428-1 DU	ARC-01_20240731	Total Recoverable	Water	3005A	

Analysis Batch: 782080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Dissolved	Water	6020B	781714
MB 500-781714/1-A	Method Blank	Total Recoverable	Water	6020B	781714
LCS 500-781714/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781714
500-254428-1 MS	ARC-01_20240731	Dissolved	Water	6020B	781714
500-254428-1 MSD	ARC-01_20240731	Dissolved	Water	6020B	781714
500-254428-1 DU	ARC-01_20240731	Dissolved	Water	6020B	781714

Analysis Batch: 782122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total Recoverable	Water	SM 2340B	781716

Analysis Batch: 782311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total Recoverable	Water	6020B	781716
MB 500-781716/1-A	Method Blank	Total Recoverable	Water	6020B	781716
LCS 500-781716/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781716
500-254428-1 MS	ARC-01_20240731	Total Recoverable	Water	6020B	781716
500-254428-1 MSD	ARC-01_20240731	Total Recoverable	Water	6020B	781716
500-254428-1 DU	ARC-01_20240731	Total Recoverable	Water	6020B	781716

General Chemistry

Analysis Batch: 779674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	300.0	
MB 500-779674/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779674/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	300.0	
MB 500-779675/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779675/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	SM 2540C	
MB 500-779810/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779810/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 780094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	300.0	
MB 500-780094/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780094/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	SM 2540D	
MB 500-780310/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-780310/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 780362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	SM 4500 S2 F	
MB 500-780362/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-780362/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Prep Batch: 780769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	Distill/CN	
MB 500-780769/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	335.4	780769
MB 500-780769/1-A	Method Blank	Total/NA	Water	335.4	780769
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	335.4	780769

Analysis Batch: 781135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	SM 2320B	
MB 500-781135/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-781135/4	Lab Control Sample	Total/NA	Water	SM 2320B	

General Chemistry

Analysis Batch: 781985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	SM 5310C	
MB 500-781985/31	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-781985/32	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 781988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Dissolved	Water	SM 5310C	
MB 500-781988/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-781988/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 782060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	SM 2520B	
500-254428-1 DU	ARC-01_20240731	Total/NA	Water	SM 2520B	

Prep Batch: 782364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	Distill/Ammonia	
MB 500-782364/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 782798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	350.1	782364
MB 500-782364/1-A	Method Blank	Total/NA	Water	350.1	782364
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	350.1	782364

Prep Batch: 783635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	365.2/365.3/365	
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 783821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254428-1	ARC-01_20240731	Total/NA	Water	365.1	783635
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.1	783635
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.1	783635

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2525/1-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:32	1

Lab Sample ID: MB 350-2525/28-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:43	1

Lab Sample ID: MB 350-2525/29-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:53	1

Lab Sample ID: LCS 350-2525/2-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.937		ng/L		94	65 - 135

Lab Sample ID: LCSD 350-2525/3-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.952		ng/L		95	65 - 135	2	35

Lab Sample ID: MB 350-2564/1-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 17:28	1

Lab Sample ID: MB 350-2564/2-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 17:39	1

Lab Sample ID: MB 350-2564/3-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 17:49	1

Method: 1630 - Methyl Mercury

Lab Sample ID: LCS 350-2564/4-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	1.01		ng/L		101	65 - 135

Lab Sample ID: LCSD 350-2564/5-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2564

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.969		ng/L		97	65 - 135	5	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2531/25
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:20	1

Lab Sample ID: MB 350-2531/26
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:24	1

Lab Sample ID: MB 350-2531/27
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:29	1

Lab Sample ID: LCS 350-2531/32
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.83		ng/L		97	77 - 123

Lab Sample ID: LCSD 350-2531/35
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.82		ng/L		96	77 - 123	0	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2524/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0219	J	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:12	1

Lab Sample ID: MB 350-2524/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:15	1

Lab Sample ID: LCS 350-2524/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.3		ug/L		89	85 - 115

Lab Sample ID: LCSD 350-2524/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781714/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:28	08/16/24 17:24	1
Antimony	1.60	J	3.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:24	1
Arsenic	<0.23		1.0	0.23	ug/L		08/15/24 16:28	08/16/24 17:24	1
Barium	<0.73		2.5	0.73	ug/L		08/15/24 16:28	08/16/24 17:24	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:28	08/16/24 17:24	1
Boron	13.1	J	50	13	ug/L		08/15/24 16:28	08/16/24 17:24	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:28	08/16/24 17:24	1
Calcium	<44		200	44	ug/L		08/15/24 16:28	08/16/24 17:24	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:28	08/16/24 17:24	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:28	08/16/24 17:24	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:28	08/16/24 17:24	1
Iron	<47		100	47	ug/L		08/15/24 16:28	08/16/24 17:24	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/15/24 16:28	08/16/24 17:24	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 16:28	08/16/24 17:24	1
Magnesium	<49		200	49	ug/L		08/15/24 16:28	08/16/24 17:24	1
Manganese	<0.79		2.5	0.79	ug/L		08/15/24 16:28	08/16/24 17:24	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:28	08/16/24 17:24	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:28	08/16/24 17:24	1
Potassium	<110		500	110	ug/L		08/15/24 16:28	08/16/24 17:24	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:28	08/16/24 17:24	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-781714/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:28	08/16/24 17:24	1
Sodium	<77		200	77	ug/L		08/15/24 16:28	08/16/24 17:24	1
Strontium	<0.64		4.0	0.64	ug/L		08/15/24 16:28	08/16/24 17:24	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:28	08/16/24 17:24	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:24	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:28	08/16/24 17:24	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:28	08/16/24 17:24	1

Lab Sample ID: LCS 500-781714/2-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2010		ug/L		101	80 - 120
Antimony	500	539		ug/L		108	80 - 120
Arsenic	100	103		ug/L		103	80 - 120
Barium	500	521		ug/L		104	80 - 120
Beryllium	50.0	51.5		ug/L		103	80 - 120
Boron	1000	1030		ug/L		103	80 - 120
Cadmium	50.0	52.5		ug/L		105	80 - 120
Calcium	10000	8690		ug/L		87	80 - 120
Chromium	200	215		ug/L		108	80 - 120
Cobalt	500	543		ug/L		109	80 - 120
Copper	250	263		ug/L		105	80 - 120
Iron	1000	1080		ug/L		108	80 - 120
Lead	100	106	^1+	ug/L		106	80 - 120
Lithium	100	108		ug/L		108	80 - 120
Magnesium	10000	10700		ug/L		107	80 - 120
Manganese	500	522		ug/L		104	80 - 120
Molybdenum	1000	995		ug/L		99	80 - 120
Nickel	500	527		ug/L		105	80 - 120
Potassium	10000	10600		ug/L		106	80 - 120
Selenium	100	104		ug/L		104	80 - 120
Silver	50.0	52.0		ug/L		104	80 - 120
Sodium	10000	10500		ug/L		105	80 - 120
Strontium	1000	1030		ug/L		103	80 - 120
Thallium	100	105		ug/L		105	80 - 120
Tin	1000	1020		ug/L		102	80 - 120
Vanadium	500	527		ug/L		105	80 - 120
Zinc	500	518		ug/L		104	80 - 120

Lab Sample ID: MB 500-781716/1-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:39	08/19/24 18:57	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:39	08/19/24 18:57	1
Arsenic	<0.23		1.0	0.23	ug/L		08/15/24 16:39	08/19/24 18:57	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-781716/1-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.73		2.5	0.73	ug/L		08/15/24 16:39	08/19/24 18:57	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:39	08/19/24 18:57	1
Boron	17.8	J ^+	50	13	ug/L		08/15/24 16:39	08/19/24 18:57	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:39	08/19/24 18:57	1
Calcium	<44		200	44	ug/L		08/15/24 16:39	08/19/24 18:57	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:39	08/19/24 18:57	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:39	08/19/24 18:57	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:39	08/19/24 18:57	1
Iron	<47		100	47	ug/L		08/15/24 16:39	08/19/24 18:57	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 16:39	08/19/24 18:57	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 16:39	08/19/24 18:57	1
Magnesium	<49		200	49	ug/L		08/15/24 16:39	08/19/24 18:57	1
Manganese	<0.79		2.5	0.79	ug/L		08/15/24 16:39	08/19/24 18:57	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:39	08/19/24 18:57	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:39	08/19/24 18:57	1
Potassium	<110		500	110	ug/L		08/15/24 16:39	08/19/24 18:57	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:39	08/19/24 18:57	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:39	08/19/24 18:57	1
Sodium	<77		200	77	ug/L		08/15/24 16:39	08/19/24 18:57	1
Strontium	<0.64		4.0	0.64	ug/L		08/15/24 16:39	08/19/24 18:57	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:39	08/19/24 18:57	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:39	08/19/24 18:57	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:39	08/19/24 18:57	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:39	08/19/24 18:57	1

Lab Sample ID: LCS 500-781716/2-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1980		ug/L		99	80 - 120
Antimony	500	506		ug/L		101	80 - 120
Arsenic	100	98.7		ug/L		99	80 - 120
Barium	500	505		ug/L		101	80 - 120
Beryllium	50.0	50.3		ug/L		101	80 - 120
Boron	1000	1020	^+	ug/L		102	80 - 120
Cadmium	50.0	51.0		ug/L		102	80 - 120
Calcium	10000	8510		ug/L		85	80 - 120
Chromium	200	207		ug/L		103	80 - 120
Cobalt	500	538		ug/L		108	80 - 120
Copper	250	255		ug/L		102	80 - 120
Iron	1000	1060		ug/L		106	80 - 120
Lead	100	101		ug/L		101	80 - 120
Lithium	100	107		ug/L		107	80 - 120
Magnesium	10000	10500		ug/L		105	80 - 120
Manganese	500	520		ug/L		104	80 - 120
Molybdenum	1000	970		ug/L		97	80 - 120
Nickel	500	510		ug/L		102	80 - 120
Potassium	10000	10400		ug/L		104	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781716/2-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	100	99.4		ug/L		99	80 - 120
Silver	50.0	50.4		ug/L		101	80 - 120
Sodium	10000	10300		ug/L		103	80 - 120
Strontium	1000	977		ug/L		98	80 - 120
Thallium	100	104		ug/L		104	80 - 120
Tin	1000	996		ug/L		100	80 - 120
Vanadium	500	516		ug/L		103	80 - 120
Zinc	500	502		ug/L		100	80 - 120

Lab Sample ID: 500-254428-1 MS
Matrix: Water
Analysis Batch: 782311

Client Sample ID: ARC-01_20240731
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	130		2000	2080		ug/L		98	75 - 125
Antimony	<1.3		500	495		ug/L		99	75 - 125
Arsenic	0.67	J	100	98.1		ug/L		97	75 - 125
Barium	35		500	529		ug/L		99	75 - 125
Beryllium	<0.53		50.0	50.9		ug/L		102	75 - 125
Boron	31	J B ^+	1000	1010	^+	ug/L		98	75 - 125
Cadmium	<0.17		50.0	50.4		ug/L		101	75 - 125
Calcium	25000		10000	33000		ug/L		83	75 - 125
Chromium	<1.1		200	206		ug/L		103	75 - 125
Cobalt	0.67	J	500	524		ug/L		105	75 - 125
Copper	2.3		250	255		ug/L		101	75 - 125
Iron	1600		1000	2580		ug/L		103	75 - 125
Lead	<0.19		100	100		ug/L		100	75 - 125
Lithium	<2.5		100	106		ug/L		106	75 - 125
Magnesium	6200		10000	16200		ug/L		100	75 - 125
Manganese	450		500	952		ug/L		101	75 - 125
Molybdenum	<2.5		1000	955		ug/L		95	75 - 125
Nickel	<0.63		500	499		ug/L		100	75 - 125
Potassium	1200		10000	11300		ug/L		102	75 - 125
Selenium	<0.98		100	98.6		ug/L		99	75 - 125
Silver	<0.12		50.0	49.6		ug/L		99	75 - 125
Sodium	2000		10000	12000		ug/L		100	75 - 125
Strontium	63		1000	1020		ug/L		96	75 - 125
Thallium	<0.57		100	103		ug/L		103	75 - 125
Tin	<1.3		1000	983		ug/L		98	75 - 125
Vanadium	<2.2		500	507		ug/L		101	75 - 125
Zinc	<6.9		500	494		ug/L		99	75 - 125

Lab Sample ID: 500-254428-1 MSD
Matrix: Water
Analysis Batch: 782311

Client Sample ID: ARC-01_20240731
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	130		2000	2190		ug/L		103	75 - 125	5	20
Antimony	<1.3		500	519		ug/L		104	75 - 125	5	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254428-1 MSD
Matrix: Water
Analysis Batch: 782311

Client Sample ID: ARC-01_20240731
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.67	J	100	102		ug/L		101	75 - 125	4	20
Barium	35		500	553		ug/L		104	75 - 125	4	20
Beryllium	<0.53		50.0	53.1		ug/L		106	75 - 125	4	20
Boron	31	J B ^+	1000	1070	^+	ug/L		104	75 - 125	5	20
Cadmium	<0.17		50.0	52.6		ug/L		105	75 - 125	4	20
Calcium	25000		10000	34300		ug/L		96	75 - 125	4	20
Chromium	<1.1		200	213		ug/L		106	75 - 125	3	20
Cobalt	0.67	J	500	549		ug/L		110	75 - 125	5	20
Copper	2.3		250	261		ug/L		103	75 - 125	2	20
Iron	1600		1000	2710		ug/L		115	75 - 125	5	20
Lead	<0.19		100	104		ug/L		104	75 - 125	4	20
Lithium	<2.5		100	112		ug/L		112	75 - 125	5	20
Magnesium	6200		10000	16800		ug/L		106	75 - 125	4	20
Manganese	450		500	991		ug/L		109	75 - 125	4	20
Molybdenum	<2.5		1000	1000		ug/L		100	75 - 125	5	20
Nickel	<0.63		500	518		ug/L		104	75 - 125	4	20
Potassium	1200		10000	11800		ug/L		106	75 - 125	4	20
Selenium	<0.98		100	101		ug/L		101	75 - 125	2	20
Silver	<0.12		50.0	51.5		ug/L		103	75 - 125	4	20
Sodium	2000		10000	12500		ug/L		105	75 - 125	4	20
Strontium	63		1000	1060		ug/L		100	75 - 125	4	20
Thallium	<0.57		100	106		ug/L		106	75 - 125	3	20
Tin	<1.3		1000	1030		ug/L		103	75 - 125	4	20
Vanadium	<2.2		500	526		ug/L		105	75 - 125	4	20
Zinc	<6.9		500	513		ug/L		103	75 - 125	4	20

Lab Sample ID: 500-254428-1 DU
Matrix: Water
Analysis Batch: 782311

Client Sample ID: ARC-01_20240731
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	130		122		ug/L		4	20
Antimony	<1.3		<1.3		ug/L		NC	20
Arsenic	0.67	J	0.681	J	ug/L		1	20
Barium	35		34.7		ug/L		1	20
Beryllium	<0.53		<0.53		ug/L		NC	20
Boron	31	J B ^+	20.4	J ^+ F5	ug/L		42	20
Cadmium	<0.17		<0.17		ug/L		NC	20
Calcium	25000		24300		ug/L		1	20
Chromium	<1.1		<1.1		ug/L		NC	20
Cobalt	0.67	J	0.764	J	ug/L		13	20
Copper	2.3		2.32		ug/L		2	20
Iron	1600		1530		ug/L		2	20
Lead	<0.19		<0.19		ug/L		NC	20
Lithium	<2.5		<2.5		ug/L		NC	20
Magnesium	6200		6100		ug/L		2	20
Manganese	450		443		ug/L		0.6	20
Molybdenum	<2.5		<2.5		ug/L		NC	20
Nickel	<0.63		0.674	J	ug/L		NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254428-1 DU
Matrix: Water
Analysis Batch: 782311

Client Sample ID: ARC-01_20240731
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Potassium	1200		1170		ug/L		0.9	20
Selenium	<0.98		<0.98		ug/L		NC	20
Silver	<0.12		<0.12		ug/L		NC	20
Sodium	2000		1950		ug/L		2	20
Strontium	63		62.5		ug/L		1	20
Thallium	<0.57		<0.57		ug/L		NC	20
Tin	<1.3		<1.3		ug/L		NC	20
Vanadium	<2.2		<2.2		ug/L		NC	20
Zinc	<6.9		<6.9		ug/L		NC	20

Lab Sample ID: 500-254428-1 MS
Matrix: Water
Analysis Batch: 782080

Client Sample ID: ARC-01_20240731
Prep Type: Dissolved
Prep Batch: 781714

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	74	J	2000	2110		ug/L		102	75 - 125
Antimony	<1.3		500	534		ug/L		107	75 - 125
Arsenic	0.64	J	100	102		ug/L		102	75 - 125
Barium	34		500	556		ug/L		104	75 - 125
Beryllium	<0.53		50.0	52.1		ug/L		104	75 - 125
Boron	30	J B	1000	1020		ug/L		99	75 - 125
Cadmium	<0.17		50.0	52.3		ug/L		105	75 - 125
Calcium	25000		10000	33300		ug/L		82	75 - 125
Chromium	<1.1		200	214		ug/L		107	75 - 125
Cobalt	0.45	J	500	546		ug/L		109	75 - 125
Copper	2.6		250	264		ug/L		104	75 - 125
Iron	880		1000	1930		ug/L		105	75 - 125
Lead	<0.19	^1+	100	106	^1+	ug/L		106	75 - 125
Lithium	<2.5		100	110		ug/L		110	75 - 125
Magnesium	6300		10000	16700		ug/L		104	75 - 125
Manganese	300		500	824		ug/L		105	75 - 125
Molybdenum	<2.5		1000	1000		ug/L		100	75 - 125
Nickel	<0.63		500	525		ug/L		105	75 - 125
Potassium	1300		10000	11900		ug/L		106	75 - 125
Selenium	<0.98		100	102		ug/L		102	75 - 125
Silver	<0.12		50.0	52.0		ug/L		104	75 - 125
Sodium	2000		10000	12300		ug/L		103	75 - 125
Strontium	66		1000	1090		ug/L		103	75 - 125
Thallium	<0.57		100	106		ug/L		106	75 - 125
Tin	<1.3		1000	1020		ug/L		102	75 - 125
Vanadium	<2.2		500	526		ug/L		105	75 - 125
Zinc	<6.9		500	515		ug/L		103	75 - 125

Lab Sample ID: 500-254428-1 MSD
Matrix: Water
Analysis Batch: 782080

Client Sample ID: ARC-01_20240731
Prep Type: Dissolved
Prep Batch: 781714

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	74	J	2000	2180		ug/L		105	75 - 125	3	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254428-1 MSD
Matrix: Water
Analysis Batch: 782080

Client Sample ID: ARC-01_20240731
Prep Type: Dissolved
Prep Batch: 781714

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<1.3		500	544		ug/L		109	75 - 125	2	20
Arsenic	0.64	J	100	105		ug/L		105	75 - 125	3	20
Barium	34		500	570		ug/L		107	75 - 125	2	20
Beryllium	<0.53		50.0	53.6		ug/L		107	75 - 125	3	20
Boron	30	J B	1000	1050		ug/L		102	75 - 125	3	20
Cadmium	<0.17		50.0	53.6		ug/L		107	75 - 125	2	20
Calcium	25000		10000	34300		ug/L		93	75 - 125	3	20
Chromium	<1.1		200	218		ug/L		109	75 - 125	2	20
Cobalt	0.45	J	500	558		ug/L		112	75 - 125	2	20
Copper	2.6		250	277		ug/L		110	75 - 125	5	20
Iron	880		1000	1980		ug/L		110	75 - 125	3	20
Lead	<0.19	^1+	100	109	^1+	ug/L		109	75 - 125	2	20
Lithium	<2.5		100	112		ug/L		112	75 - 125	2	20
Magnesium	6300		10000	17100		ug/L		108	75 - 125	2	20
Manganese	300		500	843		ug/L		109	75 - 125	2	20
Molybdenum	<2.5		1000	1030		ug/L		103	75 - 125	3	20
Nickel	<0.63		500	541		ug/L		108	75 - 125	3	20
Potassium	1300		10000	12200		ug/L		109	75 - 125	2	20
Selenium	<0.98		100	105		ug/L		105	75 - 125	3	20
Silver	<0.12		50.0	53.5		ug/L		107	75 - 125	3	20
Sodium	2000		10000	12700		ug/L		106	75 - 125	3	20
Strontium	66		1000	1120		ug/L		106	75 - 125	3	20
Thallium	<0.57		100	109		ug/L		109	75 - 125	2	20
Tin	<1.3		1000	1050		ug/L		105	75 - 125	3	20
Vanadium	<2.2		500	537		ug/L		107	75 - 125	2	20
Zinc	<6.9		500	533		ug/L		107	75 - 125	3	20

Lab Sample ID: 500-254428-1 DU
Matrix: Water
Analysis Batch: 782080

Client Sample ID: ARC-01_20240731
Prep Type: Dissolved
Prep Batch: 781714

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	74	J		76.0	J	ug/L				3	20
Antimony	<1.3			<1.3		ug/L				NC	20
Arsenic	0.64	J		0.625	J	ug/L				2	20
Barium	34			33.4		ug/L				2	20
Beryllium	<0.53			<0.53		ug/L				NC	20
Boron	30	J B		15.3	J F5	ug/L				65	20
Cadmium	<0.17			<0.17		ug/L				NC	20
Calcium	25000			24700		ug/L				1	20
Chromium	<1.1			<1.1		ug/L				NC	20
Cobalt	0.45	J		0.416	J	ug/L				7	20
Copper	2.6			2.52		ug/L				3	20
Iron	880			874		ug/L				0.7	20
Lead	<0.19	^1+		<0.19	^1+	ug/L				NC	20
Lithium	<2.5			<2.5		ug/L				NC	20
Magnesium	6300			6180		ug/L				1	20
Manganese	300			294		ug/L				1	20
Molybdenum	<2.5			<2.5		ug/L				NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-254428-1 DU
Matrix: Water
Analysis Batch: 782080

Client Sample ID: ARC-01_20240731
Prep Type: Dissolved
Prep Batch: 781714

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nickel	<0.63		<0.63		ug/L		NC	20
Potassium	1300		1280		ug/L		2	20
Selenium	<0.98		<0.98		ug/L		NC	20
Silver	<0.12		<0.12		ug/L		NC	20
Sodium	2000		1980		ug/L		3	20
Strontium	66		64.3		ug/L		2	20
Thallium	<0.57		<0.57		ug/L		NC	20
Tin	<1.3		<1.3		ug/L		NC	20
Vanadium	<2.2		<2.2		ug/L		NC	20
Zinc	<6.9		<6.9		ug/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-779674/3
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			08/02/24 11:30	1
Fluoride	<0.19		1.0	0.19	mg/L			08/02/24 11:30	1
Sulfate	<0.21		1.0	0.21	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779674/4
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	18.6		mg/L		93	90 - 110
Fluoride	20.0	20.6		mg/L		103	90 - 110
Sulfate	20.0	21.5		mg/L		107	90 - 110

Lab Sample ID: MB 500-779675/3
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043	^-	1.0	0.043	mg/L			08/02/24 11:30	1
Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779675/4
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.3	^-	mg/L		96	90 - 110
Nitrite as N	20.0	20.9		mg/L		104	90 - 110
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-780094/3
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/06/24 12:27	1

Lab Sample ID: LCS 500-780094/4
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.4		mg/L		97	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780769/1-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:19	1

Lab Sample ID: LCS 500-780769/2-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.105		mg/L		105	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-782364/1-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:35	1

Lab Sample ID: LCS 500-782364/2-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.02		mg/L		101	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-783635/1-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	0.0260	J	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:37	1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCS 500-783635/2-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.918		mg/L		92	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-781135/3
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Bicarbonate Alkalinity as CaCO3	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/12/24 16:56	1

Lab Sample ID: LCS 500-781135/4
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	95 - 121

Method: SM 2520B - Salinity

Lab Sample ID: 500-254428-1 DU
Matrix: Water
Analysis Batch: 782060

Client Sample ID: ARC-01_20240731
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Salinity	>0.33		>0.330		psu		NC	

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-779810/1
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			08/05/24 00:12	1

Lab Sample ID: LCS 500-779810/2
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-780310/1
Matrix: Water
Analysis Batch: 780310

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/07/24 14:01	1

Lab Sample ID: LCS 500-780310/2
Matrix: Water
Analysis Batch: 780310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	174		mg/L		87	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-780362/1
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			08/07/24 19:12	1

Lab Sample ID: LCS 500-780362/2
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.56		mg/L		98	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-781985/31
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/16/24 01:11	1

Lab Sample ID: LCS 500-781985/32
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.2		mg/L		102	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-781988/7
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			08/15/24 13:59	1

Method: SM 5310C - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: LCS 500-781988/8
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254428-1

Client Sample ID: ARC-01_20240731

Date Collected: 07/31/24 15:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254428-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Dissolved	Analysis	1630		1	2538	CL	EET SSM	08/08/24 23:49
Total/NA	Prep	1630			2564	AJD	EET SSM	08/15/24 10:55
Total/NA	Analysis	1630		1	2572	CL	EET SSM	08/15/24 20:42
Dissolved	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 20:17
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 20:13
Dissolved	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Dissolved	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 15:08
Total Recoverable	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Total Recoverable	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 15:52
Dissolved	Prep	3005A			781714	S1Z	EET CHI	08/15/24 16:28 - 08/15/24 21:29 [1]
Dissolved	Analysis	6020B		1	782080	RN	EET CHI	08/16/24 17:29
Total Recoverable	Prep	3005A			781716	S1Z	EET CHI	08/15/24 16:39 - 08/15/24 21:40 [1]
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 19:02
Total Recoverable	Prep	3005A			781716	S1Z	EET CHI	08/15/24 16:39 - 08/15/24 21:40 [1]
Total Recoverable	Analysis	SM 2340B		1	782122	DAJ	EET CHI	08/19/24 09:57
Total/NA	Analysis	300.0		1	780094	W1T	EET CHI	08/06/24 13:28
Total/NA	Analysis	300.0		1	779674	W1T	EET CHI	08/02/24 12:32
Total/NA	Analysis	300.0		1	779675	W1T	EET CHI	08/02/24 12:32
Total/NA	Prep	Distill/CN			780769	AC	EET CHI	08/12/24 09:21 - 08/12/24 09:51 [1]
Total/NA	Analysis	335.4		1	780985	AC	EET CHI	08/12/24 12:25
Total/NA	Prep	Distill/Ammonia			782364	EB	EET CHI	08/20/24 11:33 - 08/20/24 12:33 [1]
Total/NA	Analysis	350.1		1	782798	KF	EET CHI	08/22/24 10:43
Total/NA	Prep	365.2/365.3/365			783635	ER	EET CHI	08/28/24 09:30 - 08/28/24 13:22 [1]
Total/NA	Analysis	365.1		1	783821	KF	EET CHI	08/29/24 08:43
Total/NA	Analysis	SM 2320B		1	781135	SO	EET CHI	08/12/24 18:51
Total/NA	Analysis	SM 2520B		1	782060	TR	EET CHI	08/19/24 08:00
Total/NA	Analysis	SM 2540C		1	779810	CLB	EET CHI	08/05/24 00:53
Total/NA	Analysis	SM 2540D		1	780310	SO	EET CHI	08/07/24 14:36 - 08/07/24 14:48 [1]
Total/NA	Analysis	SM 4500 S2 F		1	780362	CLB	EET CHI	08/07/24 20:20 - 08/07/24 20:24 [1]
Dissolved	Analysis	SM 5310C		1	781988	TR	EET CHI	08/15/24 17:43
Total/NA	Analysis	SM 5310C		1	781985	TR	EET CHI	08/16/24 03:02

Client Sample ID: ARC-01_20240731_FBLL

Date Collected: 07/31/24 15:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254428-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 20:21

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254428-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1519	COC No: 500-126351-50241 65
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254428
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

500-254428 COC

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC SM5310	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, 3500_CR_B, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	3500_CR_B - Dissolved Chromium, Hex (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	N		
1 ARC-01_20240731	07-31-24	1500	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	18	
2 ARC-01_20240731_FBLK	07-31-24	1500	G	Water										✓						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/31/24 2100	MSG		7/31/24 2100	MSG
2		8/1/24 1600	MSG	4051 7962 1519	8/1/24 1600	Fedex
3		Date/Time	Company	Stephanie Hernandez	8/2/24 0955	EETA

Custody Seals Intact. Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks. 4.0+3.9

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1519	COC No: 500-126351-50241 66
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254428
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other:
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				A		
1	ARC-01_20240731	07-31-24	1500	G	Water			✓	1	
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/31/24 2100	MSG		7/31/24 MST 2100	MSG
2		8/1/24 1600	MSG	4051 7962 1519	8/1/24 1600	Fedex
3		Date/Time	Company	Stephanie Hernandez	8/2/24 0955	EEA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks:


THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

CAD: 07903077/CAFE3808

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484

(708) 534-5200 REF:
INV:
PO: DEPT:

RMA

FedEx Express

TRK# 4051 7962 1519

RETURNS MON-SAT
PRIORITY OVERNIGHT

TRK# 0221 4051 7962 1519

FRI - 02 AUG AA
PRIORITY OVERNIGHT

484

XP JOTA 40139

60484
IL-US
ORD

5025547 01Aug2024 CMXA 581G6/A12D/C0B8

500-254428 Waybi

48 ct

8/29/2024

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254428-1

Login Number: 254428
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254428-1

Login Number: 254428
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 08/06/24 01:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	

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500-254428 Field Sheet

Date:	8/6/2024
End Time:	13:42
pH Paper Lot:	hc324723
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254428-J-1	<2				
500-254428-K-1	<2			12	
500-254428-E-1	<2			8/6/24	
500-254428-F-1	<2				

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/29/2024 7:53:40 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254429-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/29/2024 7:53:40 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254429-1

Receipt
The samples were received on 8/2/2024 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

Metals
Method 6020B: The initial low level calibration verification (ICVL) result for batch 500-782080 was above the upper control limit. The affected analytes are: Lead. Sample results were below the reporting limit, and have been reported as qualified data.

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- CCB (Incomplete Integration)

Methods 1638, 200.8 LL: The continuing calibration blank (CCB) for analytical batch 350-2539 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Methods 300.0, 9056A: The following sample was analyzed outside of analytical holding time MW-1A-R_20240731 (500-254429-1).

Methods 300.0, 9056A: The method blank for analytical batch 500-780095 contained Nitrate as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM 2320B: The method blank for analytical batch 500-781135 contained Alkalinity and Bicarbonate Alkalinity as CaCO3 above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 365.1: The method blank for preparation batch 500-783635 and analytical batch 500-783821 contained Phosphorus as P above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The continuing calibration verification (CCV) associated with batch 500-779675 recovered below the lower control limit for Nitrate as N. The samples associated with this CCV were rerun out of hold with not confirming results ; therefore, both sets of the data have been reported. MW-1A-R_20240731 (500-254429-1), (LCS 500-779675/4) and (MB 500-779675/3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254429-1

Client Sample ID: MW-1A-R_20240731 — Lab Sample ID: 500-254429-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.35	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.28	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	16	B	0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	16	B	0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	190		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	1.1		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	44		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	560		50	13	ug/L	1		6020B	Total Recoverable
Calcium	34000		200	44	ug/L	1		6020B	Total Recoverable
Copper	1.4	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	380		100	47	ug/L	1		6020B	Total Recoverable
Lead	0.22	J	0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	6.3	J	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	14000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	36		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	36		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	2900		500	110	ug/L	1		6020B	Total Recoverable
Sodium	98000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	490		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	2.3	J	5.0	2.2	ug/L	1		6020B	Total Recoverable
Arsenic	0.79	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	45		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	620	B	50	13	ug/L	1		6020B	Dissolved
Calcium	37000		200	44	ug/L	1		6020B	Dissolved
Copper	0.60	J	2.0	0.50	ug/L	1		6020B	Dissolved
Lithium	5.8	J	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	15000		200	49	ug/L	1		6020B	Dissolved
Manganese	1.9	J	2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	35		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	3100		500	110	ug/L	1		6020B	Dissolved
Sodium	93000		200	77	ug/L	1		6020B	Dissolved
Strontium	570		4.0	0.64	ug/L	1		6020B	Dissolved
Tin	1.3	J	5.0	1.3	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	140		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.38	J	1.0	0.18	mg/L	1		300.0	Total/NA
Nitrate as N	0.44	J ^-	1.0	0.043	mg/L	1		300.0	Total/NA
Nitrate as N	0.11	J H B	1.0	0.043	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-1A-R_20240731 (Continued) — Lab Sample ID: 500-254429-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	39		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.44	J	1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.44	J	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	82		5.0	1.0	mg/L	5		300.0	Total/NA
Phosphorus as P	0.12	H B	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	200	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	200	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	>0.33		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	400		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	9.6		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	0.99	J	1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	2.5		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-1A-R_20240731_FBLL — Lab Sample ID: 500-254429-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254429-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254429-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254429-1	MW-1A-R_20240731	Water	07/31/24 15:45	08/02/24 09:55
500-254429-2	MW-1A-R_20240731_FBLL	Water	07/31/24 15:45	08/02/24 09:55

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254429-1

Client Sample ID: MW-1A-R_20240731

Date Collected: 07/31/24 15:45
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254429-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 22:37	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 22:47	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.35**	**J**	0.50	0.20	ng/L			08/08/24 19:15	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.28**	**J**	0.50	0.20	ng/L			08/08/24 19:19	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**16**	**B**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 15:55	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**16**	**B**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 15:12	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**190**		100	25	ug/L		08/15/24 16:39	08/19/24 19:14	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:39	08/19/24 19:14	1
Arsenic	**1.1**		1.0	0.23	ug/L		08/15/24 16:39	08/19/24 19:14	1
Barium	**44**		2.5	0.73	ug/L		08/15/24 16:39	08/19/24 19:14	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:39	08/19/24 19:14	1
Boron	**560**		50	13	ug/L		08/15/24 16:39	08/20/24 11:33	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:39	08/19/24 19:14	1
Calcium	**34000**		200	44	ug/L		08/15/24 16:39	08/19/24 19:14	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:39	08/19/24 19:14	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:39	08/19/24 19:14	1
Copper	**1.4**	**J**	2.0	0.50	ug/L		08/15/24 16:39	08/19/24 19:14	1
Iron	**380**		100	47	ug/L		08/15/24 16:39	08/19/24 19:14	1
Lead	**0.22**	**J**	0.50	0.19	ug/L		08/15/24 16:39	08/19/24 19:14	1
Lithium	**6.3**	**J**	10	2.5	ug/L		08/15/24 16:39	08/19/24 19:14	1
Magnesium	**14000**		200	49	ug/L		08/15/24 16:39	08/19/24 19:14	1
Manganese	**36**		2.5	0.79	ug/L		08/15/24 16:39	08/19/24 19:14	1
Molybdenum	**36**		5.0	2.5	ug/L		08/15/24 16:39	08/19/24 19:14	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:39	08/19/24 19:14	1
Potassium	**2900**		500	110	ug/L		08/15/24 16:39	08/19/24 19:14	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:39	08/19/24 19:14	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:39	08/19/24 19:14	1
Sodium	**98000**		200	77	ug/L		08/15/24 16:39	08/19/24 19:14	1
Strontium	**490**		4.0	0.64	ug/L		08/15/24 16:39	08/19/24 19:14	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:39	08/19/24 19:14	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:39	08/19/24 19:14	1
Vanadium	**2.3**	**J**	5.0	2.2	ug/L		08/15/24 16:39	08/19/24 19:14	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:39	08/19/24 19:14	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254429-1

Client Sample ID: MW-1A-R_20240731

Date Collected: 07/31/24 15:45
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254429-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:28	08/16/24 17:40	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:40	1
Arsenic	**0.79**	**J**	1.0	0.23	ug/L		08/15/24 16:28	08/16/24 17:40	1
Barium	**45**		2.5	0.73	ug/L		08/15/24 16:28	08/16/24 17:40	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:28	08/16/24 17:40	1
Boron	**620**	**B**	50	13	ug/L		08/15/24 16:28	08/16/24 17:40	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:28	08/16/24 17:40	1
Calcium	**37000**		200	44	ug/L		08/15/24 16:28	08/16/24 17:40	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:28	08/16/24 17:40	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:28	08/16/24 17:40	1
Copper	**0.60**	**J**	2.0	0.50	ug/L		08/15/24 16:28	08/16/24 17:40	1
Iron	<47		100	47	ug/L		08/15/24 16:28	08/16/24 17:40	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/15/24 16:28	08/16/24 17:40	1
Lithium	**5.8**	**J**	10	2.5	ug/L		08/15/24 16:28	08/16/24 17:40	1
Magnesium	**15000**		200	49	ug/L		08/15/24 16:28	08/16/24 17:40	1
Manganese	**1.9**	**J**	2.5	0.79	ug/L		08/15/24 16:28	08/16/24 17:40	1
Molybdenum	**35**		5.0	2.5	ug/L		08/15/24 16:28	08/16/24 17:40	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:28	08/16/24 17:40	1
Potassium	**3100**		500	110	ug/L		08/15/24 16:28	08/16/24 17:40	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:28	08/16/24 17:40	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:28	08/16/24 17:40	1
Sodium	**93000**		200	77	ug/L		08/15/24 16:28	08/16/24 17:40	1
Strontium	**570**		4.0	0.64	ug/L		08/15/24 16:28	08/16/24 17:40	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:28	08/16/24 17:40	1
Tin	**1.3**	**J**	5.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:40	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:28	08/16/24 17:40	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:28	08/16/24 17:40	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**140**		0.91	0.46	mg/L		08/15/24 16:39	08/19/24 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.38**	**J**	1.0	0.18	mg/L			08/02/24 12:48	1
Nitrate as N (EPA 300.0)	**0.44**	**J ^-**	1.0	0.043	mg/L			08/02/24 12:48	1
Nitrate as N (EPA 300.0)	**0.11**	**J H B**	1.0	0.043	mg/L			08/06/24 13:43	1
Chloride (EPA 300.0)	**39**		1.0	0.12	mg/L			08/06/24 13:43	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/02/24 12:48	1
Fluoride (EPA 300.0)	**0.44**	**J**	1.0	0.19	mg/L			08/02/24 12:48	1
Nitrate Nitrite as N (EPA 300.0)	**0.44**	**J**	1.0	0.070	mg/L			08/02/24 12:48	1
Sulfate (EPA 300.0)	**82**		5.0	1.0	mg/L			08/06/24 13:58	5
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:27	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:44	1
Phosphorus as P (EPA 365.1)	**0.12**	**H B**	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:43	1
Alkalinity (SM 2320B)	**200**	**B**	5.0	3.7	mg/L			08/12/24 18:59	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**200**	**B**	5.0	3.7	mg/L			08/12/24 18:59	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/12/24 18:59	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254429-1

Client Sample ID: MW-1A-R_20240731
Date Collected: 07/31/24 15:45
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254429-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Salinity (SM 2520B)	>0.33		0.33	0.33	psu			08/19/24 08:00	1
Total Dissolved Solids (SM 2540C)	400		10	4.3	mg/L			08/05/24 00:55	1
Total Suspended Solids (SM 2540D)	9.6		5.0	1.9	mg/L			08/07/24 14:24	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			08/05/24 23:32	1
Total Organic Carbon (SM 5310C)	0.99	J	1.0	0.47	mg/L			08/16/24 03:31	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	2.5		1.0	0.47	mg/L			08/15/24 18:11	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254429-1

Client Sample ID: MW-1A-R_20240731_FBLL
Date Collected: 07/31/24 15:45
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254429-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 19:23	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254429-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Dissolved	Water	1638	
500-254429-1	MW-1A-R_20240731	Total Recoverable	Water	1638	
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Prep Batch: 2525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Dissolved	Water	1630	
500-254429-1	MW-1A-R_20240731	Total/NA	Water	1630	
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 2531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Dissolved	Water	1631E	
500-254429-1	MW-1A-R_20240731	Total/NA	Water	1631E	
500-254429-2	MW-1A-R_20240731_FBLL	Total/NA	Water	1631E	
MB 350-2531/25	Method Blank	Total/NA	Water	1631E	
MB 350-2531/26	Method Blank	Total/NA	Water	1631E	
MB 350-2531/27	Method Blank	Total/NA	Water	1631E	
LCS 350-2531/32	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2531/35	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Dissolved	Water	1630	2525
500-254429-1	MW-1A-R_20240731	Total/NA	Water	1630	2525
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	2525
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	2525
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	2525

Analysis Batch: 2539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Dissolved	Water	1638	2524
500-254429-1	MW-1A-R_20240731	Total Recoverable	Water	1638	2524
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	2524
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	2524
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	2524
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2524

Prep Batch: 781714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Dissolved	Water	3005A	
MB 500-781714/1-A	Method Blank	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 781714 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-781714/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 781716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total Recoverable	Water	3005A	
MB 500-781716/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781716/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 782080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Dissolved	Water	6020B	781714
MB 500-781714/1-A	Method Blank	Total Recoverable	Water	6020B	781714
LCS 500-781714/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781714

Analysis Batch: 782123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total Recoverable	Water	SM 2340B	781716

Analysis Batch: 782311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total Recoverable	Water	6020B	781716
MB 500-781716/1-A	Method Blank	Total Recoverable	Water	6020B	781716
LCS 500-781716/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781716

Analysis Batch: 782406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total Recoverable	Water	6020B	781716
MB 500-781716/1-A	Method Blank	Total Recoverable	Water	6020B	781716
LCS 500-781716/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781716

General Chemistry

Analysis Batch: 779674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	300.0	
MB 500-779674/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779674/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	300.0	
MB 500-779675/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779675/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	SM 2540C	
MB 500-779810/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779810/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry

Analysis Batch: 779991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	SM 4500 S2 F	
MB 500-779991/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-779991/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 780094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	300.0	
500-254429-1	MW-1A-R_20240731	Total/NA	Water	300.0	
MB 500-780094/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780094/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	300.0	
MB 500-780095/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780095/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	SM 2540D	
MB 500-780310/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-780310/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 780769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	Distill/CN	
MB 500-780769/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	335.4	780769
MB 500-780769/1-A	Method Blank	Total/NA	Water	335.4	780769
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	335.4	780769

Analysis Batch: 781135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	SM 2320B	
MB 500-781135/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-781135/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 781985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	SM 5310C	
MB 500-781985/31	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-781985/32	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 781988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Dissolved	Water	SM 5310C	
MB 500-781988/7	Method Blank	Dissolved	Water	SM 5310C	

General Chemistry (Continued)

Analysis Batch: 781988 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-781988/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 782060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	SM 2520B	

Prep Batch: 782364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	Distill/Ammonia	
MB 500-782364/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 782798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	350.1	782364
MB 500-782364/1-A	Method Blank	Total/NA	Water	350.1	782364
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	350.1	782364

Prep Batch: 783635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	365.2/365.3/365	
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 783821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254429-1	MW-1A-R_20240731	Total/NA	Water	365.1	783635
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.1	783635
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.1	783635

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2525/1-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:32	1

Lab Sample ID: MB 350-2525/28-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:43	1

Lab Sample ID: MB 350-2525/29-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:53	1

Lab Sample ID: LCS 350-2525/2-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.937		ng/L		94	65 - 135

Lab Sample ID: LCSD 350-2525/3-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.952		ng/L		95	65 - 135	2	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2531/25
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:20	1

Lab Sample ID: MB 350-2531/26
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:24	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2531/27
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:29	1

Lab Sample ID: LCS 350-2531/32
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.83		ng/L		97	77 - 123

Lab Sample ID: LCSD 350-2531/35
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.82		ng/L		96	77 - 123	0	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2524/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0219	J	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:12	1

Lab Sample ID: MB 350-2524/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:15	1

Lab Sample ID: LCS 350-2524/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.3		ug/L		89	85 - 115

Lab Sample ID: LCSD 350-2524/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781714/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:28	08/16/24 17:24	1
Antimony	1.60	J	3.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:24	1
Arsenic	<0.23		1.0	0.23	ug/L		08/15/24 16:28	08/16/24 17:24	1
Barium	<0.73		2.5	0.73	ug/L		08/15/24 16:28	08/16/24 17:24	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:28	08/16/24 17:24	1
Boron	13.1	J	50	13	ug/L		08/15/24 16:28	08/16/24 17:24	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:28	08/16/24 17:24	1
Calcium	<44		200	44	ug/L		08/15/24 16:28	08/16/24 17:24	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:28	08/16/24 17:24	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:28	08/16/24 17:24	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:28	08/16/24 17:24	1
Iron	<47		100	47	ug/L		08/15/24 16:28	08/16/24 17:24	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/15/24 16:28	08/16/24 17:24	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 16:28	08/16/24 17:24	1
Magnesium	<49		200	49	ug/L		08/15/24 16:28	08/16/24 17:24	1
Manganese	<0.79		2.5	0.79	ug/L		08/15/24 16:28	08/16/24 17:24	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:28	08/16/24 17:24	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:28	08/16/24 17:24	1
Potassium	<110		500	110	ug/L		08/15/24 16:28	08/16/24 17:24	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:28	08/16/24 17:24	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:28	08/16/24 17:24	1
Sodium	<77		200	77	ug/L		08/15/24 16:28	08/16/24 17:24	1
Strontium	<0.64		4.0	0.64	ug/L		08/15/24 16:28	08/16/24 17:24	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:28	08/16/24 17:24	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:24	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:28	08/16/24 17:24	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:28	08/16/24 17:24	1

Lab Sample ID: LCS 500-781714/2-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2010		ug/L		101	80 - 120
Antimony	500	539		ug/L		108	80 - 120
Arsenic	100	103		ug/L		103	80 - 120
Barium	500	521		ug/L		104	80 - 120
Beryllium	50.0	51.5		ug/L		103	80 - 120
Boron	1000	1030		ug/L		103	80 - 120
Cadmium	50.0	52.5		ug/L		105	80 - 120
Calcium	10000	8690		ug/L		87	80 - 120
Chromium	200	215		ug/L		108	80 - 120
Cobalt	500	543		ug/L		109	80 - 120
Copper	250	263		ug/L		105	80 - 120
Iron	1000	1080		ug/L		108	80 - 120
Lead	100	106	^1+	ug/L		106	80 - 120
Lithium	100	108		ug/L		108	80 - 120
Magnesium	10000	10700		ug/L		107	80 - 120
Manganese	500	522		ug/L		104	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781714/2-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	1000	995		ug/L		99	80 - 120
Nickel	500	527		ug/L		105	80 - 120
Potassium	10000	10600		ug/L		106	80 - 120
Selenium	100	104		ug/L		104	80 - 120
Silver	50.0	52.0		ug/L		104	80 - 120
Sodium	10000	10500		ug/L		105	80 - 120
Strontium	1000	1030		ug/L		103	80 - 120
Thallium	100	105		ug/L		105	80 - 120
Tin	1000	1020		ug/L		102	80 - 120
Vanadium	500	527		ug/L		105	80 - 120
Zinc	500	518		ug/L		104	80 - 120

Lab Sample ID: MB 500-781716/1-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:39	08/19/24 18:57	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:39	08/19/24 18:57	1
Arsenic	<0.23		1.0	0.23	ug/L		08/15/24 16:39	08/19/24 18:57	1
Barium	<0.73		2.5	0.73	ug/L		08/15/24 16:39	08/19/24 18:57	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:39	08/19/24 18:57	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:39	08/19/24 18:57	1
Calcium	<44		200	44	ug/L		08/15/24 16:39	08/19/24 18:57	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:39	08/19/24 18:57	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:39	08/19/24 18:57	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:39	08/19/24 18:57	1
Iron	<47		100	47	ug/L		08/15/24 16:39	08/19/24 18:57	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 16:39	08/19/24 18:57	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 16:39	08/19/24 18:57	1
Magnesium	<49		200	49	ug/L		08/15/24 16:39	08/19/24 18:57	1
Manganese	<0.79		2.5	0.79	ug/L		08/15/24 16:39	08/19/24 18:57	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:39	08/19/24 18:57	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:39	08/19/24 18:57	1
Potassium	<110		500	110	ug/L		08/15/24 16:39	08/19/24 18:57	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:39	08/19/24 18:57	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:39	08/19/24 18:57	1
Sodium	<77		200	77	ug/L		08/15/24 16:39	08/19/24 18:57	1
Strontium	<0.64		4.0	0.64	ug/L		08/15/24 16:39	08/19/24 18:57	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:39	08/19/24 18:57	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:39	08/19/24 18:57	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:39	08/19/24 18:57	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:39	08/19/24 18:57	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-781716/1-A
Matrix: Water
Analysis Batch: 782406

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<13		50	13	ug/L		08/15/24 16:39	08/20/24 11:28	1

Lab Sample ID: LCS 500-781716/2-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1980		ug/L		99	80 - 120
Antimony	500	506		ug/L		101	80 - 120
Arsenic	100	98.7		ug/L		99	80 - 120
Barium	500	505		ug/L		101	80 - 120
Beryllium	50.0	50.3		ug/L		101	80 - 120
Cadmium	50.0	51.0		ug/L		102	80 - 120
Calcium	10000	8510		ug/L		85	80 - 120
Chromium	200	207		ug/L		103	80 - 120
Cobalt	500	538		ug/L		108	80 - 120
Copper	250	255		ug/L		102	80 - 120
Iron	1000	1060		ug/L		106	80 - 120
Lead	100	101		ug/L		101	80 - 120
Lithium	100	107		ug/L		107	80 - 120
Magnesium	10000	10500		ug/L		105	80 - 120
Manganese	500	520		ug/L		104	80 - 120
Molybdenum	1000	970		ug/L		97	80 - 120
Nickel	500	510		ug/L		102	80 - 120
Potassium	10000	10400		ug/L		104	80 - 120
Selenium	100	99.4		ug/L		99	80 - 120
Silver	50.0	50.4		ug/L		101	80 - 120
Sodium	10000	10300		ug/L		103	80 - 120
Strontium	1000	977		ug/L		98	80 - 120
Thallium	100	104		ug/L		104	80 - 120
Tin	1000	996		ug/L		100	80 - 120
Vanadium	500	516		ug/L		103	80 - 120
Zinc	500	502		ug/L		100	80 - 120

Lab Sample ID: LCS 500-781716/2-A
Matrix: Water
Analysis Batch: 782406

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	993		ug/L		99	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-779674/3
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			08/02/24 11:30	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-779674/3
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.19		1.0	0.19	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779674/4
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	18.6		mg/L		93	90 - 110
Fluoride	20.0	20.6		mg/L		103	90 - 110

Lab Sample ID: MB 500-779675/3
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043	^-	1.0	0.043	mg/L			08/02/24 11:30	1
Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779675/4
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.3	^-	mg/L		96	90 - 110
Nitrite as N	20.0	20.9		mg/L		104	90 - 110
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Lab Sample ID: MB 500-780094/3
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/06/24 12:27	1
Sulfate	<0.21		1.0	0.21	mg/L			08/06/24 12:27	1

Lab Sample ID: LCS 500-780094/4
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.4		mg/L		97	90 - 110
Sulfate	20.0	20.7		mg/L		104	90 - 110

Lab Sample ID: MB 500-780095/3
Matrix: Water
Analysis Batch: 780095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.113	J	1.0	0.043	mg/L			08/06/24 12:27	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-780095/4
Matrix: Water
Analysis Batch: 780095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	20.2		mg/L		101	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780769/1-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:19	1

Lab Sample ID: LCS 500-780769/2-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.105		mg/L		105	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-782364/1-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:35	1

Lab Sample ID: LCS 500-782364/2-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.02		mg/L		101	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-783635/1-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	0.0260	J	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:37	1

Lab Sample ID: LCS 500-783635/2-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.918		mg/L		92	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-781135/3
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Bicarbonate Alkalinity as CaCO3	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/12/24 16:56	1

Lab Sample ID: LCS 500-781135/4
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-779810/1
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			08/05/24 00:12	1

Lab Sample ID: LCS 500-779810/2
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-780310/1
Matrix: Water
Analysis Batch: 780310

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/07/24 14:01	1

Lab Sample ID: LCS 500-780310/2
Matrix: Water
Analysis Batch: 780310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	174		mg/L		87	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-779991/1
Matrix: Water
Analysis Batch: 779991

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			08/05/24 22:17	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254429-1

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: LCS 500-779991/2
Matrix: Water
Analysis Batch: 779991

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.20		mg/L		88	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-781985/31
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/16/24 01:11	1

Lab Sample ID: LCS 500-781985/32
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.2		mg/L		102	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-781988/7
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			08/15/24 13:59	1

Lab Sample ID: LCS 500-781988/8
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254429-1

Client Sample ID: MW-1A-R_20240731

Lab Sample ID: 500-254429-1

Date Collected: 07/31/24 15:45
Matrix: Water
Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Dissolved	Analysis	1630		1	2538	CL	EET SSM	08/08/24 22:47
Total/NA	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Total/NA	Analysis	1630		1	2538	CL	EET SSM	08/08/24 22:37
Dissolved	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 19:19
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 19:15
Dissolved	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Dissolved	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 15:12
Total Recoverable	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Total Recoverable	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 15:55
Dissolved	Prep	3005A			781714	S1Z	EET CHI	08/15/24 16:28 - 08/15/24 21:29 [1]
Dissolved	Analysis	6020B		1	782080	RN	EET CHI	08/16/24 17:40
Total Recoverable	Prep	3005A			781716	S1Z	EET CHI	08/15/24 16:39 - 08/15/24 21:40 [1]
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 19:14
Total Recoverable	Prep	3005A			781716	S1Z	EET CHI	08/15/24 16:39 - 08/15/24 21:40 [1]
Total Recoverable	Analysis	6020B		1	782406	RN	EET CHI	08/20/24 11:33
Total Recoverable	Prep	3005A			781716	S1Z	EET CHI	08/15/24 16:39 - 08/15/24 21:40 [1]
Total Recoverable	Analysis	SM 2340B		1	782123	DAJ	EET CHI	08/19/24 09:57
Total/NA	Analysis	300.0		1	780094	W1T	EET CHI	08/06/24 13:43
Total/NA	Analysis	300.0		1	780095	W1T	EET CHI	08/06/24 13:43
Total/NA	Analysis	300.0		5	780094	W1T	EET CHI	08/06/24 13:58
Total/NA	Analysis	300.0		1	779674	W1T	EET CHI	08/02/24 12:48
Total/NA	Analysis	300.0		1	779675	W1T	EET CHI	08/02/24 12:48
Total/NA	Prep	Distill/CN			780769	AC	EET CHI	08/12/24 09:21 - 08/12/24 09:51 [1]
Total/NA	Analysis	335.4		1	780985	AC	EET CHI	08/12/24 12:27
Total/NA	Prep	Distill/Ammonia			782364	EB	EET CHI	08/20/24 11:33 - 08/20/24 12:33 [1]
Total/NA	Analysis	350.1		1	782798	KF	EET CHI	08/22/24 10:44
Total/NA	Prep	365.2/365.3/365			783635	ER	EET CHI	08/28/24 09:30 - 08/28/24 13:22 [1]
Total/NA	Analysis	365.1		1	783821	KF	EET CHI	08/29/24 08:43
Total/NA	Analysis	SM 2320B		1	781135	SO	EET CHI	08/12/24 18:59
Total/NA	Analysis	SM 2520B		1	782060	TR	EET CHI	08/19/24 08:00
Total/NA	Analysis	SM 2540C		1	779810	CLB	EET CHI	08/05/24 00:55
Total/NA	Analysis	SM 2540D		1	780310	SO	EET CHI	08/07/24 14:24 - 08/07/24 14:36 [1]
Total/NA	Analysis	SM 4500 S2 F		1	779991	CLB	EET CHI	08/05/24 23:32 - 08/05/24 23:36 [1]
Dissolved	Analysis	SM 5310C		1	781988	TR	EET CHI	08/15/24 18:11
Total/NA	Analysis	SM 5310C		1	781985	TR	EET CHI	08/16/24 03:31

Client Sample ID: MW-1A-R_20240731_FBLL

Lab Sample ID: 500-254429-2

Date Collected: 07/31/24 15:45
Matrix: Water
Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 19:23

Lab Chronicle

Client: White Pine Copper LLC
Job ID: 500-254429-1
Project/Site: White Pines, MI

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254429-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: Maddy Strong	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1520	COC No: 500-126351-50241 89
Client Contact: Amanda Zeidler	Phone: 71587 41059	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-254429
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S - H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

500-254429 COC

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
1	MW-1A-R_20240731	7/31/24	1545	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	19	
2	MW-1A-R_20240731_FBLL	7/31/24	1545	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/1/24 1600	MSG	4051 7962 1520	8/1/24 1600	Fedex
2		Date/Time	Company	Stephanie Hernandez	8/2/24 0955	EEL
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		1.9+1.8



500-254429 Waybi

48at

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254429-1

Login Number: 254429
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254429-1

Login Number: 254429
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 08/06/24 01:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254429 Field Sheet

Date:	8/6/2024
End Time:	13:42
pH Paper Lot:	hc324723
Analyst:	VR

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254429-K-1	CZ				
500-254429-J-1	CZ			VR	
500-254429-E-1	CZ			8/6/24	
500-254429-F-1	CZ				

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/29/2024 7:55:01 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254430-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/29/2024 7:55:01 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254430-1

Receipt
The samples were received on 8/2/2024 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.8º C.

Metals
Method 6020B: The initial low level calibration verification (ICVL) result for batch 500-782080 was above the upper control limit. The affected analytes are: Lead. Sample results were below the reporting limit, and have been reported as qualified data.

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- CCB (Incomplete Integration)

Methods 1638, 200.8 LL: The continuing calibration blank (CCB) for analytical batch 350-2539 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Methods 300.0, 9056A: The method blank for analytical batch 500-780095 contained Nitrate as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM 2320B: The method blank for analytical batch 500-781135 contained Alkalinity and Bicarbonate Alkalinity as CaCO3 above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 365.1: The method blank for preparation batch 500-783635 and analytical batch 500-783821 contained Phosphorus as P above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 365.1: Reanalysis of the following sample(s) was performed outside of the analytical holding time - re-preparation to confirm initial results: MW-1B-R_20240731 (500-254430-1).

Method 300.0: The continuing calibration verification (CCV) associated with batch 500-779675 recovered below the lower control limit for Nitrate as N. The samples associated with this CCV were rerun with confirming results ; therefore, the data have been reported. MW-1B-R_20240731 (500-254430-1), (LCS 500-779675/4) and (MB 500-779675/3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254430-1

Client Sample ID: MW-1B-R_20240731 — Lab Sample ID: 500-254430-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.27	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.23	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	5.9		0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	5.6	B ^2	0.030	0.0098	ug/L	1		1638	Dissolved
Arsenic	5.6		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	130		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	1400		50	13	ug/L	1		6020B	Total Recoverable
Calcium	61000		200	44	ug/L	1		6020B	Total Recoverable
Iron	250		100	47	ug/L	1		6020B	Total Recoverable
Lithium	38		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	9400		200	49	ug/L	1		6020B	Total Recoverable
Manganese	740		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	6.2		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	3500		500	110	ug/L	1		6020B	Total Recoverable
Sodium	86000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	1000		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	5.0		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	120		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	1500	B	50	13	ug/L	1		6020B	Dissolved
Calcium	65000		200	44	ug/L	1		6020B	Dissolved
Iron	88	J	100	47	ug/L	1		6020B	Dissolved
Lithium	40		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	10000		200	49	ug/L	1		6020B	Dissolved
Manganese	540		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	5.7		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	3700		500	110	ug/L	1		6020B	Dissolved
Sodium	89000		200	77	ug/L	1		6020B	Dissolved
Strontium	1100		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	190		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	1.1		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	95		10	1.2	mg/L	10		300.0	Total/NA
Fluoride	0.38	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	45		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.052	H B	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	190	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	190	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	>0.33		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	440		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	0.87	J	1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	0.93	J	1.0	0.47	mg/L	1		SM 5310C	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254430-1

Client Sample ID: MW-1B-R_20240731_FBLL

Lab Sample ID: 500-254430-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.28	J	0.50	0.20	ng/L	1		1631E	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254430-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254430-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254430-1	MW-1B-R_20240731	Water	07/31/24 17:00	08/02/24 09:55
500-254430-2	MW-1B-R_20240731_FBLL	Water	07/31/24 17:00	08/02/24 09:55

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254430-1

Client Sample ID: MW-1B-R_20240731

Date Collected: 07/31/24 17:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254430-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 22:58	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 23:08	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.27**	**J**	0.50	0.20	ng/L			08/08/24 18:29	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.23**	**J**	0.50	0.20	ng/L			08/08/24 18:33	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**5.9**		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 15:59	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**5.6**	**B ^2**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:59	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:39	08/19/24 19:17	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:39	08/19/24 19:17	1
Arsenic	**5.6**		1.0	0.23	ug/L		08/15/24 16:39	08/19/24 19:17	1
Barium	**130**		2.5	0.73	ug/L		08/15/24 16:39	08/19/24 19:17	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:39	08/19/24 19:17	1
Boron	**1400**		50	13	ug/L		08/15/24 16:39	08/20/24 11:35	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:39	08/19/24 19:17	1
Calcium	**61000**		200	44	ug/L		08/15/24 16:39	08/19/24 19:17	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:39	08/19/24 19:17	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:39	08/19/24 19:17	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:39	08/19/24 19:17	1
Iron	**250**		100	47	ug/L		08/15/24 16:39	08/19/24 19:17	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 16:39	08/19/24 19:17	1
Lithium	**38**		10	2.5	ug/L		08/15/24 16:39	08/19/24 19:17	1
Magnesium	**9400**		200	49	ug/L		08/15/24 16:39	08/19/24 19:17	1
Manganese	**740**		2.5	0.79	ug/L		08/15/24 16:39	08/19/24 19:17	1
Molybdenum	**6.2**		5.0	2.5	ug/L		08/15/24 16:39	08/19/24 19:17	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:39	08/19/24 19:17	1
Potassium	**3500**		500	110	ug/L		08/15/24 16:39	08/19/24 19:17	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:39	08/19/24 19:17	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:39	08/19/24 19:17	1
Sodium	**86000**		200	77	ug/L		08/15/24 16:39	08/19/24 19:17	1
Strontium	**1000**		4.0	0.64	ug/L		08/15/24 16:39	08/19/24 19:17	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:39	08/19/24 19:17	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:39	08/19/24 19:17	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:39	08/19/24 19:17	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:39	08/19/24 19:17	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254430-1

Client Sample ID: MW-1B-R_20240731

Date Collected: 07/31/24 17:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254430-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:28	08/16/24 17:43	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:43	1
Arsenic	**5.0**		1.0	0.23	ug/L		08/15/24 16:28	08/16/24 17:43	1
Barium	**120**		2.5	0.73	ug/L		08/15/24 16:28	08/16/24 17:43	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:28	08/16/24 17:43	1
Boron	**1500**	**B**	50	13	ug/L		08/15/24 16:28	08/16/24 17:43	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:28	08/16/24 17:43	1
Calcium	**65000**		200	44	ug/L		08/15/24 16:28	08/16/24 17:43	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:28	08/16/24 17:43	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:28	08/16/24 17:43	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:28	08/16/24 17:43	1
Iron	**88**	**J**	100	47	ug/L		08/15/24 16:28	08/16/24 17:43	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/15/24 16:28	08/16/24 17:43	1
Lithium	**40**		10	2.5	ug/L		08/15/24 16:28	08/16/24 17:43	1
Magnesium	**10000**		200	49	ug/L		08/15/24 16:28	08/16/24 17:43	1
Manganese	**540**		2.5	0.79	ug/L		08/15/24 16:28	08/16/24 17:43	1
Molybdenum	**5.7**		5.0	2.5	ug/L		08/15/24 16:28	08/16/24 17:43	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:28	08/16/24 17:43	1
Potassium	**3700**		500	110	ug/L		08/15/24 16:28	08/16/24 17:43	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:28	08/16/24 17:43	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:28	08/16/24 17:43	1
Sodium	**89000**		200	77	ug/L		08/15/24 16:28	08/16/24 17:43	1
Strontium	**1100**		4.0	0.64	ug/L		08/15/24 16:28	08/16/24 17:43	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:28	08/16/24 17:43	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:43	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:28	08/16/24 17:43	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:28	08/16/24 17:43	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**190**		0.91	0.46	mg/L		08/15/24 16:39	08/19/24 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**1.1**		1.0	0.18	mg/L			08/02/24 13:03	1
Nitrate as N (EPA 300.0)	<0.043	^-	1.0	0.043	mg/L			08/02/24 13:03	1
Chloride (EPA 300.0)	**95**		10	1.2	mg/L			08/06/24 14:28	10
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/02/24 13:03	1
Fluoride (EPA 300.0)	**0.38**	**J**	1.0	0.19	mg/L			08/02/24 13:03	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/02/24 13:03	1
Sulfate (EPA 300.0)	**45**		1.0	0.21	mg/L			08/02/24 13:03	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:29	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:45	1
Phosphorus as P (EPA 365.1)	**0.052**	**H B**	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:44	1
Alkalinity (SM 2320B)	**190**	**B**	5.0	3.7	mg/L			08/12/24 19:09	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**190**	**B**	5.0	3.7	mg/L			08/12/24 19:09	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/12/24 19:09	1
Salinity (SM 2520B)	**>0.33**		0.33	0.33	psu			08/19/24 08:00	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254430-1

Client Sample ID: MW-1B-R_20240731
Date Collected: 07/31/24 17:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254430-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**440**		10	4.3	mg/L			08/05/24 00:58	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			08/07/24 16:35	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			08/07/24 19:33	1
Total Organic Carbon (SM 5310C)	**0.87**	**J**	1.0	0.47	mg/L			08/16/24 03:58	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**0.93**	**J**	1.0	0.47	mg/L			08/15/24 19:35	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254430-1

Client Sample ID: MW-1B-R_20240731_FBLL
Date Collected: 07/31/24 17:00
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254430-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28	J	0.50	0.20	ng/L			08/08/24 18:37	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254430-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Dissolved	Water	1638	
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-254430-1 MS	MW-1B-R_20240731	Dissolved	Water	1638	
500-254430-1 MSD	MW-1B-R_20240731	Dissolved	Water	1638	

Prep Batch: 2525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Dissolved	Water	1630	
500-254430-1	MW-1B-R_20240731	Total/NA	Water	1630	
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	

Prep Batch: 2526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total Recoverable	Water	1638	
MB 350-2526/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2526/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2526/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2526/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Dissolved	Water	1631E	
500-254430-1	MW-1B-R_20240731	Total/NA	Water	1631E	
500-254430-2	MW-1B-R_20240731_FBLL	Total/NA	Water	1631E	
MB 350-2531/20	Method Blank	Total/NA	Water	1631E	
MB 350-2531/23	Method Blank	Total/NA	Water	1631E	
MB 350-2531/24	Method Blank	Total/NA	Water	1631E	
LCS 350-2531/30	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2531/31	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Dissolved	Water	1630	2525
500-254430-1	MW-1B-R_20240731	Total/NA	Water	1630	2525
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	2525
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	2525
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	2525

Analysis Batch: 2539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Dissolved	Water	1638	2524
500-254430-1	MW-1B-R_20240731	Total Recoverable	Water	1638	2526

Metals (Continued)

Analysis Batch: 2539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	2524
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	2524
MB 350-2526/1-A	Method Blank	Total Recoverable	Water	1638	2526
MB 350-2526/2-A	Method Blank	Total Recoverable	Water	1638	2526
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	2524
LCS 350-2526/3-A	Lab Control Sample	Total Recoverable	Water	1638	2526
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2524
LCSD 350-2526/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2526
500-254430-1 MS	MW-1B-R_20240731	Dissolved	Water	1638	2524
500-254430-1 MSD	MW-1B-R_20240731	Dissolved	Water	1638	2524

Prep Batch: 781714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Dissolved	Water	3005A	
MB 500-781714/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781714/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 781716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total Recoverable	Water	3005A	
MB 500-781716/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781716/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 782080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Dissolved	Water	6020B	781714
MB 500-781714/1-A	Method Blank	Total Recoverable	Water	6020B	781714
LCS 500-781714/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781714

Analysis Batch: 782124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total Recoverable	Water	SM 2340B	781716

Analysis Batch: 782311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total Recoverable	Water	6020B	781716
MB 500-781716/1-A	Method Blank	Total Recoverable	Water	6020B	781716
LCS 500-781716/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781716

Analysis Batch: 782406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total Recoverable	Water	6020B	781716
MB 500-781716/1-A	Method Blank	Total Recoverable	Water	6020B	781716
LCS 500-781716/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781716

General Chemistry

Analysis Batch: 779674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total/NA	Water	300.0	
MB 500-779674/3	Method Blank	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 779674 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-779674/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total/NA	Water	300.0	
MB 500-779675/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779675/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total/NA	Water	SM 2540C	
MB 500-779810/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779810/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 780094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total/NA	Water	300.0	
MB 500-780094/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780094/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total/NA	Water	SM 2540D	
MB 500-780310/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-780310/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 780362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total/NA	Water	SM 4500 S2 F	
MB 500-780362/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-780362/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Prep Batch: 780769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total/NA	Water	Distill/CN	
MB 500-780769/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
500-254430-1 MS	MW-1B-R_20240731	Total/NA	Water	Distill/CN	
500-254430-1 MSD	MW-1B-R_20240731	Total/NA	Water	Distill/CN	

Analysis Batch: 780985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total/NA	Water	335.4	780769
MB 500-780769/1-A	Method Blank	Total/NA	Water	335.4	780769
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	335.4	780769
500-254430-1 MS	MW-1B-R_20240731	Total/NA	Water	335.4	780769
500-254430-1 MSD	MW-1B-R_20240731	Total/NA	Water	335.4	780769

Analysis Batch: 781135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 781135 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-781135/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-781135/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 781985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total/NA	Water	SM 5310C	
MB 500-781985/31	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-781985/32	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 781988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Dissolved	Water	SM 5310C	
MB 500-781988/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-781988/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 782060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total/NA	Water	SM 2520B	

Prep Batch: 782364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total/NA	Water	Distill/Ammonia	
MB 500-782364/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 782798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total/NA	Water	350.1	782364
MB 500-782364/1-A	Method Blank	Total/NA	Water	350.1	782364
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	350.1	782364

Prep Batch: 783635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total/NA	Water	365.2/365.3/365	
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 783821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254430-1	MW-1B-R_20240731	Total/NA	Water	365.1	783635
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.1	783635
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.1	783635

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2525/1-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:32	1

Lab Sample ID: MB 350-2525/28-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:43	1

Lab Sample ID: MB 350-2525/29-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:53	1

Lab Sample ID: LCS 350-2525/2-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.937		ng/L		94	65 - 135

Lab Sample ID: LCSD 350-2525/3-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.952		ng/L		95	65 - 135	2	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2531/20
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:00	1

Lab Sample ID: MB 350-2531/23
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:12	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2531/24
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:16	1

Lab Sample ID: LCS 350-2531/30
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.77		ng/L		95	77 - 123

Lab Sample ID: LCSD 350-2531/31
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.81		ng/L		96	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2524/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0219	J	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:12	1

Lab Sample ID: MB 350-2524/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:15	1

Lab Sample ID: LCS 350-2524/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.3		ug/L		89	85 - 115

Lab Sample ID: LCSD 350-2524/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	1	20

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 350-2526/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:19	1

Lab Sample ID: MB 350-2526/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:23	1

Lab Sample ID: LCS 350-2526/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.5		ug/L		90	85 - 115

Lab Sample ID: LCSD 350-2526/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	0	20

Lab Sample ID: 500-254430-1 MS
Matrix: Water
Analysis Batch: 2539

Client Sample ID: MW-1B-R_20240731
Prep Type: Dissolved
Prep Batch: 2524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	5.6	B ^2	25.0	29.5		ug/L		96	70 - 130

Lab Sample ID: 500-254430-1 MSD
Matrix: Water
Analysis Batch: 2539

Client Sample ID: MW-1B-R_20240731
Prep Type: Dissolved
Prep Batch: 2524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	5.6	B ^2	25.0	29.5		ug/L		96	70 - 130	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781714/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:28	08/16/24 17:24	1
Antimony	1.60	J	3.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:24	1
Arsenic	<0.23		1.0	0.23	ug/L		08/15/24 16:28	08/16/24 17:24	1
Barium	<0.73		2.5	0.73	ug/L		08/15/24 16:28	08/16/24 17:24	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:28	08/16/24 17:24	1
Boron	13.1	J	50	13	ug/L		08/15/24 16:28	08/16/24 17:24	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-781714/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:28	08/16/24 17:24	1
Calcium	<44		200	44	ug/L		08/15/24 16:28	08/16/24 17:24	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:28	08/16/24 17:24	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:28	08/16/24 17:24	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:28	08/16/24 17:24	1
Iron	<47		100	47	ug/L		08/15/24 16:28	08/16/24 17:24	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/15/24 16:28	08/16/24 17:24	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 16:28	08/16/24 17:24	1
Magnesium	<49		200	49	ug/L		08/15/24 16:28	08/16/24 17:24	1
Manganese	<0.79		2.5	0.79	ug/L		08/15/24 16:28	08/16/24 17:24	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:28	08/16/24 17:24	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:28	08/16/24 17:24	1
Potassium	<110		500	110	ug/L		08/15/24 16:28	08/16/24 17:24	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:28	08/16/24 17:24	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:28	08/16/24 17:24	1
Sodium	<77		200	77	ug/L		08/15/24 16:28	08/16/24 17:24	1
Strontium	<0.64		4.0	0.64	ug/L		08/15/24 16:28	08/16/24 17:24	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:28	08/16/24 17:24	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:24	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:28	08/16/24 17:24	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:28	08/16/24 17:24	1

Lab Sample ID: LCS 500-781714/2-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2010		ug/L		101	80 - 120
Antimony	500	539		ug/L		108	80 - 120
Arsenic	100	103		ug/L		103	80 - 120
Barium	500	521		ug/L		104	80 - 120
Beryllium	50.0	51.5		ug/L		103	80 - 120
Boron	1000	1030		ug/L		103	80 - 120
Cadmium	50.0	52.5		ug/L		105	80 - 120
Calcium	10000	8690		ug/L		87	80 - 120
Chromium	200	215		ug/L		108	80 - 120
Cobalt	500	543		ug/L		109	80 - 120
Copper	250	263		ug/L		105	80 - 120
Iron	1000	1080		ug/L		108	80 - 120
Lead	100	106	^1+	ug/L		106	80 - 120
Lithium	100	108		ug/L		108	80 - 120
Magnesium	10000	10700		ug/L		107	80 - 120
Manganese	500	522		ug/L		104	80 - 120
Molybdenum	1000	995		ug/L		99	80 - 120
Nickel	500	527		ug/L		105	80 - 120
Potassium	10000	10600		ug/L		106	80 - 120
Selenium	100	104		ug/L		104	80 - 120
Silver	50.0	52.0		ug/L		104	80 - 120
Sodium	10000	10500		ug/L		105	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781714/2-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Strontium	1000	1030		ug/L		103	80 - 120
Thallium	100	105		ug/L		105	80 - 120
Tin	1000	1020		ug/L		102	80 - 120
Vanadium	500	527		ug/L		105	80 - 120
Zinc	500	518		ug/L		104	80 - 120

Lab Sample ID: MB 500-781716/1-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:39	08/19/24 18:57	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:39	08/19/24 18:57	1
Arsenic	<0.23		1.0	0.23	ug/L		08/15/24 16:39	08/19/24 18:57	1
Barium	<0.73		2.5	0.73	ug/L		08/15/24 16:39	08/19/24 18:57	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:39	08/19/24 18:57	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:39	08/19/24 18:57	1
Calcium	<44		200	44	ug/L		08/15/24 16:39	08/19/24 18:57	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:39	08/19/24 18:57	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:39	08/19/24 18:57	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:39	08/19/24 18:57	1
Iron	<47		100	47	ug/L		08/15/24 16:39	08/19/24 18:57	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 16:39	08/19/24 18:57	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 16:39	08/19/24 18:57	1
Magnesium	<49		200	49	ug/L		08/15/24 16:39	08/19/24 18:57	1
Manganese	<0.79		2.5	0.79	ug/L		08/15/24 16:39	08/19/24 18:57	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:39	08/19/24 18:57	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:39	08/19/24 18:57	1
Potassium	<110		500	110	ug/L		08/15/24 16:39	08/19/24 18:57	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:39	08/19/24 18:57	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:39	08/19/24 18:57	1
Sodium	<77		200	77	ug/L		08/15/24 16:39	08/19/24 18:57	1
Strontium	<0.64		4.0	0.64	ug/L		08/15/24 16:39	08/19/24 18:57	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:39	08/19/24 18:57	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:39	08/19/24 18:57	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:39	08/19/24 18:57	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:39	08/19/24 18:57	1

Lab Sample ID: MB 500-781716/1-A
Matrix: Water
Analysis Batch: 782406

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<13		50	13	ug/L		08/15/24 16:39	08/20/24 11:28	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781716/2-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1980		ug/L		99	80 - 120
Antimony	500	506		ug/L		101	80 - 120
Arsenic	100	98.7		ug/L		99	80 - 120
Barium	500	505		ug/L		101	80 - 120
Beryllium	50.0	50.3		ug/L		101	80 - 120
Cadmium	50.0	51.0		ug/L		102	80 - 120
Calcium	10000	8510		ug/L		85	80 - 120
Chromium	200	207		ug/L		103	80 - 120
Cobalt	500	538		ug/L		108	80 - 120
Copper	250	255		ug/L		102	80 - 120
Iron	1000	1060		ug/L		106	80 - 120
Lead	100	101		ug/L		101	80 - 120
Lithium	100	107		ug/L		107	80 - 120
Magnesium	10000	10500		ug/L		105	80 - 120
Manganese	500	520		ug/L		104	80 - 120
Molybdenum	1000	970		ug/L		97	80 - 120
Nickel	500	510		ug/L		102	80 - 120
Potassium	10000	10400		ug/L		104	80 - 120
Selenium	100	99.4		ug/L		99	80 - 120
Silver	50.0	50.4		ug/L		101	80 - 120
Sodium	10000	10300		ug/L		103	80 - 120
Strontium	1000	977		ug/L		98	80 - 120
Thallium	100	104		ug/L		104	80 - 120
Tin	1000	996		ug/L		100	80 - 120
Vanadium	500	516		ug/L		103	80 - 120
Zinc	500	502		ug/L		100	80 - 120

Lab Sample ID: LCS 500-781716/2-A
Matrix: Water
Analysis Batch: 782406

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	993		ug/L		99	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-779674/3
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			08/02/24 11:30	1
Fluoride	<0.19		1.0	0.19	mg/L			08/02/24 11:30	1
Sulfate	<0.21		1.0	0.21	mg/L			08/02/24 11:30	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-779674/4
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	18.6		mg/L		93	90 - 110
Fluoride	20.0	20.6		mg/L		103	90 - 110
Sulfate	20.0	21.5		mg/L		107	90 - 110

Lab Sample ID: MB 500-779675/3
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043	^-	1.0	0.043	mg/L			08/02/24 11:30	1
Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779675/4
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.3	^-	mg/L		96	90 - 110
Nitrite as N	20.0	20.9		mg/L		104	90 - 110
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Lab Sample ID: MB 500-780094/3
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/06/24 12:27	1

Lab Sample ID: LCS 500-780094/4
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.4		mg/L		97	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780769/1-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:19	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 500-780769/2-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.105		mg/L		105	90 - 110

Lab Sample ID: 500-254430-1 MS
Matrix: Water
Analysis Batch: 780985

Client Sample ID: MW-1B-R_20240731
Prep Type: Total/NA
Prep Batch: 780769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.0036		0.100	0.0972		mg/L		97	90 - 110

Lab Sample ID: 500-254430-1 MSD
Matrix: Water
Analysis Batch: 780985

Client Sample ID: MW-1B-R_20240731
Prep Type: Total/NA
Prep Batch: 780769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.0036		0.100	0.0958		mg/L		96	90 - 110	1	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-782364/1-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:35	1

Lab Sample ID: LCS 500-782364/2-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.02		mg/L		101	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-783635/1-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	0.0260	J	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:37	1

Lab Sample ID: LCS 500-783635/2-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.918		mg/L		92	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-781135/3
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Bicarbonate Alkalinity as CaCO3	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/12/24 16:56	1

Lab Sample ID: LCS 500-781135/4
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-779810/1
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			08/05/24 00:12	1

Lab Sample ID: LCS 500-779810/2
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-780310/1
Matrix: Water
Analysis Batch: 780310

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/07/24 14:01	1

Lab Sample ID: LCS 500-780310/2
Matrix: Water
Analysis Batch: 780310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	174		mg/L		87	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-780362/1
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			08/07/24 19:12	1

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: LCS 500-780362/2
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.56		mg/L		98	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-781985/31
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/16/24 01:11	1

Lab Sample ID: LCS 500-781985/32
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.2		mg/L		102	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-781988/7
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			08/15/24 13:59	1

Lab Sample ID: LCS 500-781988/8
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254430-1

Client Sample ID: MW-1B-R_20240731

Lab Sample ID: 500-254430-1

Date Collected: 07/31/24 17:00

Matrix: Water

Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Dissolved	Analysis	1630		1	2538	CL	EET SSM	08/08/24 23:08
Total/NA	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Total/NA	Analysis	1630		1	2538	CL	EET SSM	08/08/24 22:58
Dissolved	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 18:33
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 18:29
Dissolved	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Dissolved	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 13:59
Total Recoverable	Prep	1638			2526	V1R	EET SSM	08/08/24 12:16
Total Recoverable	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 15:59
Dissolved	Prep	3005A			781714	S1Z	EET CHI	08/15/24 16:28 - 08/15/24 21:29 [1]
Dissolved	Analysis	6020B		1	782080	RN	EET CHI	08/16/24 17:43
Total Recoverable	Prep	3005A			781716	S1Z	EET CHI	08/15/24 16:39 - 08/15/24 21:40 [1]
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 19:17
Total Recoverable	Prep	3005A			781716	S1Z	EET CHI	08/15/24 16:39 - 08/15/24 21:40 [1]
Total Recoverable	Analysis	6020B		1	782406	RN	EET CHI	08/20/24 11:35
Total Recoverable	Prep	3005A			781716	S1Z	EET CHI	08/15/24 16:39 - 08/15/24 21:40 [1]
Total Recoverable	Analysis	SM 2340B		1	782124	DAJ	EET CHI	08/19/24 09:57
Total/NA	Analysis	300.0		10	780094	W1T	EET CHI	08/06/24 14:28
Total/NA	Analysis	300.0		1	779674	W1T	EET CHI	08/02/24 13:03
Total/NA	Analysis	300.0		1	779675	W1T	EET CHI	08/02/24 13:03
Total/NA	Prep	Distill/CN			780769	AC	EET CHI	08/12/24 09:21 - 08/12/24 09:51 [1]
Total/NA	Analysis	335.4		1	780985	AC	EET CHI	08/12/24 12:29
Total/NA	Prep	Distill/Ammonia			782364	EB	EET CHI	08/20/24 11:33 - 08/20/24 12:33 [1]
Total/NA	Analysis	350.1		1	782798	KF	EET CHI	08/22/24 10:45
Total/NA	Prep	365.2/365.3/365			783635	ER	EET CHI	08/28/24 09:30 - 08/28/24 13:22 [1]
Total/NA	Analysis	365.1		1	783821	KF	EET CHI	08/29/24 08:44
Total/NA	Analysis	SM 2320B		1	781135	SO	EET CHI	08/12/24 19:09
Total/NA	Analysis	SM 2520B		1	782060	TR	EET CHI	08/19/24 08:00
Total/NA	Analysis	SM 2540C		1	779810	CLB	EET CHI	08/05/24 00:58
Total/NA	Analysis	SM 2540D		1	780310	SO	EET CHI	08/07/24 16:35 - 08/07/24 16:47 [1]
Total/NA	Analysis	SM 4500 S2 F		1	780362	CLB	EET CHI	08/07/24 19:33 - 08/07/24 19:37 [1]
Dissolved	Analysis	SM 5310C		1	781988	TR	EET CHI	08/15/24 19:35
Total/NA	Analysis	SM 5310C		1	781985	TR	EET CHI	08/16/24 03:58

Client Sample ID: MW-1B-R_20240731_FBLL

Lab Sample ID: 500-254430-2

Date Collected: 07/31/24 17:00

Matrix: Water

Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 18:37

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254430-1

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254430-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Maddy Strong	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1471	COC No.: 500-126351-50241 91
Client Contact: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254430
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other: 500-254430 COC
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
1 MW-1B-R_20240731	7/31/24	~~1700~~ 1705	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	19	
2 MW-1B-R_20240731_FBLL	7/31/24	1700	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/1/24 1600	MSG	4051 7962 1471	8/1/24 1600	Fedex
2				Stephanie Hernandez	8/2/24 0905	EEIA
3						

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		5.9+5.9


THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

CAD: 0780307/CAFE3908

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-6200 REF
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500-254430 Waybi

2578736

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254430-1

Login Number: 254430
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254430-1

Login Number: 254430
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 08/06/24 01:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254430 Field Sheet

Date:	8/6/2024
End Time:	[illegible]
pH Paper Lot:	hc324723
Analyst:	[illegible]

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
A	Nitric Acid	na
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254430-J-1	≤2				
500-254430-K-1	≤2				
500-254430-F-1	≤2				
500-254430-E-1	≤2				

[illegible] 8/6/24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

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JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254431-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254431-1

Receipt
The samples were received on 8/2/2024 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.0º C.

Metals
Method 6020B: The initial low level calibration verification (ICVL) result for batch 500-782080 was above the upper control limit. The affected analytes are: Lead. Sample results were below the reporting limit, and have been reported as qualified data.

Method 6020B: The continuing calibration verification (CCV) associated with batch 500-782080 recovered above the upper control limit for Cobalt. The samples associated with this CCV were below the reporting limit for the affected analytes; therefore, the data have been reported.

Method 6020B: The continuing calibration verification (CCV) associated with batch 500-782311 recovered above the upper control limit for Boron. The samples results associated with this CCV were below the reporting limit for the affected analytes or QC samples that recovered within control limits; therefore, the data have been reported.

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- CCB (Incomplete Integration)

Methods 1638, 200.8 LL: The continuing calibration blank (CCB) for analytical batch 350-2539 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Methods 300.0, 9056A: The following sample was analyzed outside of analytical holding time PNC-03_20240801 (500-254431-1).

Methods 300.0, 9056A: The method blank for analytical batch 500-780095 contained Nitrate as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM 2320B: The method blank for analytical batch 500-781135 contained Alkalinity and Bicarbonate Alkalinity as CaCO3 above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 365.1: The method blank for preparation batch 500-783635 and analytical batch 500-783821 contained Phosphorus as P above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The continuing calibration verification (CCV) associated with batch 500-779675 recovered below the lower control limit for Nitrate as N. The samples associated with this CCV were rerun out of hold with not confirming results ; therefore, both sets of the data have been reported. PNC-03_20240801 (500-254431-1), (LCS 500-779675/4) and (MB 500-779675/3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254431-1

Client Sample ID: PNC-03_20240801 — Lab Sample ID: 500-254431-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.79		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.70		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.51		0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.56	B	0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	33	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.58	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	110		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	42	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	59000		200	44	ug/L	1		6020B	Total Recoverable
Copper	5.9		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	260		100	47	ug/L	1		6020B	Total Recoverable
Lithium	4.6	J	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	12000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	120		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1700		500	110	ug/L	1		6020B	Total Recoverable
Sodium	10000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	350		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.61	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	120		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	41	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	62000		200	44	ug/L	1		6020B	Dissolved
Copper	6.2		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	140		100	47	ug/L	1		6020B	Dissolved
Lithium	5.0	J	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	12000		200	49	ug/L	1		6020B	Dissolved
Manganese	100		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1900		500	110	ug/L	1		6020B	Dissolved
Sodium	11000		200	77	ug/L	1		6020B	Dissolved
Strontium	370		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	200		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.51	J	1.0	0.18	mg/L	1		300.0	Total/NA
Nitrate as N	0.45	J ^-	1.0	0.043	mg/L	1		300.0	Total/NA
Nitrate as N	0.13	J H B	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	47		5.0	0.58	mg/L	5		300.0	Total/NA
Fluoride	0.21	J	1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.45	J	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	0.35	J	1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.035	J B	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	130	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	130	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PNC-03_20240801 (Continued)

Lab Sample ID: 500-254431-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Salinity	>0.33		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	280		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	11		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	11		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: PNC-03_20240801_FBLL

Lab Sample ID: 500-254431-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254431-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254431-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254431-1	PNC-03_20240801	Water	08/01/24 08:30	08/02/24 09:55
500-254431-2	PNC-03_20240801_FBLL	Water	08/01/24 08:30	08/02/24 09:55

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254431-1

Client Sample ID: PNC-03_20240801

Date Collected: 08/01/24 08:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254431-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 23:18	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 23:28	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.79**		0.50	0.20	ng/L			08/08/24 17:44	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.70**		0.50	0.20	ng/L			08/08/24 17:48	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.51**		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 16:03	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.56**	**B**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 15:15	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**33**	**J**	100	25	ug/L		08/15/24 16:39	08/19/24 19:24	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:39	08/19/24 19:24	1
Arsenic	**0.58**	**J**	1.0	0.23	ug/L		08/15/24 16:39	08/19/24 19:24	1
Barium	**110**		2.5	0.73	ug/L		08/15/24 16:39	08/19/24 19:24	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:39	08/19/24 19:24	1
Boron	**42**	**J B**	50	13	ug/L		08/15/24 16:39	08/19/24 19:24	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:39	08/19/24 19:24	1
Calcium	**59000**		200	44	ug/L		08/15/24 16:39	08/19/24 19:24	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:39	08/19/24 19:24	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:39	08/19/24 19:24	1
Copper	**5.9**		2.0	0.50	ug/L		08/15/24 16:39	08/19/24 19:24	1
Iron	**260**		100	47	ug/L		08/15/24 16:39	08/19/24 19:24	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 16:39	08/19/24 19:24	1
Lithium	**4.6**	**J**	10	2.5	ug/L		08/15/24 16:39	08/19/24 19:24	1
Magnesium	**12000**		200	49	ug/L		08/15/24 16:39	08/19/24 19:24	1
Manganese	**120**		2.5	0.79	ug/L		08/15/24 16:39	08/19/24 19:24	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:39	08/19/24 19:24	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:39	08/19/24 19:24	1
Potassium	**1700**		500	110	ug/L		08/15/24 16:39	08/19/24 19:24	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:39	08/19/24 19:24	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:39	08/19/24 19:24	1
Sodium	**10000**		200	77	ug/L		08/15/24 16:39	08/19/24 19:24	1
Strontium	**350**		4.0	0.64	ug/L		08/15/24 16:39	08/19/24 19:24	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:39	08/19/24 19:24	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:39	08/19/24 19:24	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:39	08/19/24 19:24	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:39	08/19/24 19:24	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254431-1

Client Sample ID: PNC-03_20240801

Date Collected: 08/01/24 08:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254431-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:28	08/16/24 17:52	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:52	1
Arsenic	**0.61**	**J**	1.0	0.23	ug/L		08/15/24 16:28	08/16/24 17:52	1
Barium	**120**		2.5	0.73	ug/L		08/15/24 16:28	08/16/24 17:52	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:28	08/16/24 17:52	1
Boron	**41**	**J B**	50	13	ug/L		08/15/24 16:28	08/16/24 17:52	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:28	08/16/24 17:52	1
Calcium	**62000**		200	44	ug/L		08/15/24 16:28	08/16/24 17:52	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:28	08/16/24 17:52	1
Cobalt	<0.40	^+	1.0	0.40	ug/L		08/15/24 16:28	08/16/24 17:52	1
Copper	**6.2**		2.0	0.50	ug/L		08/15/24 16:28	08/16/24 17:52	1
Iron	**140**		100	47	ug/L		08/15/24 16:28	08/16/24 17:52	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/15/24 16:28	08/16/24 17:52	1
Lithium	**5.0**	**J**	10	2.5	ug/L		08/15/24 16:28	08/16/24 17:52	1
Magnesium	**12000**		200	49	ug/L		08/15/24 16:28	08/16/24 17:52	1
Manganese	**100**		2.5	0.79	ug/L		08/15/24 16:28	08/16/24 17:52	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:28	08/16/24 17:52	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:28	08/16/24 17:52	1
Potassium	**1900**		500	110	ug/L		08/15/24 16:28	08/16/24 17:52	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:28	08/16/24 17:52	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:28	08/16/24 17:52	1
Sodium	**11000**		200	77	ug/L		08/15/24 16:28	08/16/24 17:52	1
Strontium	**370**		4.0	0.64	ug/L		08/15/24 16:28	08/16/24 17:52	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:28	08/16/24 17:52	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:52	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:28	08/16/24 17:52	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:28	08/16/24 17:52	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**200**		0.91	0.46	mg/L		08/15/24 16:39	08/19/24 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.51**	**J**	1.0	0.18	mg/L			08/02/24 13:19	1
Nitrate as N (EPA 300.0)	**0.45**	**J ^-**	1.0	0.043	mg/L			08/02/24 13:19	1
Nitrate as N (EPA 300.0)	**0.13**	**J H B**	1.0	0.043	mg/L			08/06/24 14:44	1
Chloride (EPA 300.0)	**47**		5.0	0.58	mg/L			08/06/24 15:29	5
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/02/24 13:19	1
Fluoride (EPA 300.0)	**0.21**	**J**	1.0	0.19	mg/L			08/02/24 13:19	1
Nitrate Nitrite as N (EPA 300.0)	**0.45**	**J**	1.0	0.070	mg/L			08/02/24 13:19	1
Sulfate (EPA 300.0)	**0.35**	**J**	1.0	0.21	mg/L			08/02/24 13:19	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:41	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:46	1
Phosphorus as P (EPA 365.1)	**0.035**	**J B**	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:44	1
Alkalinity (SM 2320B)	**130**	**B**	5.0	3.7	mg/L			08/12/24 19:18	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**130**	**B**	5.0	3.7	mg/L			08/12/24 19:18	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/12/24 19:18	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254431-1

Client Sample ID: PNC-03_20240801
Date Collected: 08/01/24 08:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254431-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Salinity (SM 2520B)	>0.33		0.33	0.33	psu			08/19/24 08:00	1
Total Dissolved Solids (SM 2540C)	280		10	4.3	mg/L			08/05/24 01:01	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			08/08/24 18:17	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			08/07/24 20:24	1
Total Organic Carbon (SM 5310C)	11		1.0	0.47	mg/L			08/16/24 05:22	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	11		1.0	0.47	mg/L			08/15/24 20:03	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254431-1

Client Sample ID: PNC-03_20240801_FBLL
Date Collected: 08/01/24 08:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254431-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 17:52	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254431-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Dissolved	Water	1638	
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Prep Batch: 2525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Dissolved	Water	1630	
500-254431-1	PNC-03_20240801	Total/NA	Water	1630	
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	

Prep Batch: 2526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total Recoverable	Water	1638	
MB 350-2526/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2526/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2526/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2526/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Dissolved	Water	1631E	
500-254431-1	PNC-03_20240801	Total/NA	Water	1631E	
500-254431-2	PNC-03_20240801_FBLL	Total/NA	Water	1631E	
MB 350-2531/20	Method Blank	Total/NA	Water	1631E	
MB 350-2531/23	Method Blank	Total/NA	Water	1631E	
MB 350-2531/24	Method Blank	Total/NA	Water	1631E	
LCS 350-2531/30	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2531/31	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Dissolved	Water	1630	2525
500-254431-1	PNC-03_20240801	Total/NA	Water	1630	2525
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	2525
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	2525
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	2525

Analysis Batch: 2539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Dissolved	Water	1638	2524
500-254431-1	PNC-03_20240801	Total Recoverable	Water	1638	2526
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	2524
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	2524

Metals (Continued)

Analysis Batch: 2539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 350-2526/1-A	Method Blank	Total Recoverable	Water	1638	2526
MB 350-2526/2-A	Method Blank	Total Recoverable	Water	1638	2526
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	2524
LCS 350-2526/3-A	Lab Control Sample	Total Recoverable	Water	1638	2526
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2524
LCSD 350-2526/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2526

Prep Batch: 781714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Dissolved	Water	3005A	
MB 500-781714/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781714/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 781716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total Recoverable	Water	3005A	
MB 500-781716/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781716/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 782080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Dissolved	Water	6020B	781714
MB 500-781714/1-A	Method Blank	Total Recoverable	Water	6020B	781714
LCS 500-781714/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781714

Analysis Batch: 782125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total Recoverable	Water	SM 2340B	781716

Analysis Batch: 782311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total Recoverable	Water	6020B	781716
MB 500-781716/1-A	Method Blank	Total Recoverable	Water	6020B	781716
LCS 500-781716/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781716

General Chemistry

Analysis Batch: 779674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	300.0	
MB 500-779674/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779674/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	300.0	
MB 500-779675/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779675/4	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 779810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	SM 2540C	
MB 500-779810/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779810/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 780094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	300.0	
MB 500-780094/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780094/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	300.0	
MB 500-780095/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780095/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	SM 4500 S2 F	
MB 500-780362/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-780362/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 780590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	SM 2540D	
MB 500-780590/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-780590/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 780769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	Distill/CN	
MB 500-780769/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	335.4	780769
MB 500-780769/1-A	Method Blank	Total/NA	Water	335.4	780769
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	335.4	780769

Analysis Batch: 781135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	SM 2320B	
MB 500-781135/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-781135/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 781985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	SM 5310C	
MB 500-781985/31	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-781985/32	Lab Control Sample	Total/NA	Water	SM 5310C	

General Chemistry

Analysis Batch: 781988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Dissolved	Water	SM 5310C	
MB 500-781988/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-781988/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 782060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	SM 2520B	

Prep Batch: 782364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	Distill/Ammonia	
MB 500-782364/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 782798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	350.1	782364
MB 500-782364/1-A	Method Blank	Total/NA	Water	350.1	782364
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	350.1	782364

Prep Batch: 783635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	365.2/365.3/365	
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 783821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254431-1	PNC-03_20240801	Total/NA	Water	365.1	783635
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.1	783635
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.1	783635

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2525/1-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:32	1

Lab Sample ID: MB 350-2525/28-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:43	1

Lab Sample ID: MB 350-2525/29-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:53	1

Lab Sample ID: LCS 350-2525/2-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.937		ng/L		94	65 - 135

Lab Sample ID: LCSD 350-2525/3-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.952		ng/L		95	65 - 135	2	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2531/20
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:00	1

Lab Sample ID: MB 350-2531/23
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:12	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2531/24
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:16	1

Lab Sample ID: LCS 350-2531/30
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.77		ng/L		95	77 - 123

Lab Sample ID: LCSD 350-2531/31
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.81		ng/L		96	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2524/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0219	J	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:12	1

Lab Sample ID: MB 350-2524/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:15	1

Lab Sample ID: LCS 350-2524/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.3		ug/L		89	85 - 115

Lab Sample ID: LCSD 350-2524/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	1	20

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 350-2526/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:19	1

Lab Sample ID: MB 350-2526/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:23	1

Lab Sample ID: LCS 350-2526/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.5		ug/L		90	85 - 115

Lab Sample ID: LCSD 350-2526/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781714/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:28	08/16/24 17:24	1
Antimony	1.60	J	3.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:24	1
Arsenic	<0.23		1.0	0.23	ug/L		08/15/24 16:28	08/16/24 17:24	1
Barium	<0.73		2.5	0.73	ug/L		08/15/24 16:28	08/16/24 17:24	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:28	08/16/24 17:24	1
Boron	13.1	J	50	13	ug/L		08/15/24 16:28	08/16/24 17:24	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:28	08/16/24 17:24	1
Calcium	<44		200	44	ug/L		08/15/24 16:28	08/16/24 17:24	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:28	08/16/24 17:24	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:28	08/16/24 17:24	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:28	08/16/24 17:24	1
Iron	<47		100	47	ug/L		08/15/24 16:28	08/16/24 17:24	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/15/24 16:28	08/16/24 17:24	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 16:28	08/16/24 17:24	1
Magnesium	<49		200	49	ug/L		08/15/24 16:28	08/16/24 17:24	1
Manganese	<0.79		2.5	0.79	ug/L		08/15/24 16:28	08/16/24 17:24	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:28	08/16/24 17:24	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:28	08/16/24 17:24	1
Potassium	<110		500	110	ug/L		08/15/24 16:28	08/16/24 17:24	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:28	08/16/24 17:24	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-781714/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:28	08/16/24 17:24	1
Sodium	<77		200	77	ug/L		08/15/24 16:28	08/16/24 17:24	1
Strontium	<0.64		4.0	0.64	ug/L		08/15/24 16:28	08/16/24 17:24	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:28	08/16/24 17:24	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:24	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:28	08/16/24 17:24	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:28	08/16/24 17:24	1

Lab Sample ID: LCS 500-781714/2-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2010		ug/L		101	80 - 120
Antimony	500	539		ug/L		108	80 - 120
Arsenic	100	103		ug/L		103	80 - 120
Barium	500	521		ug/L		104	80 - 120
Beryllium	50.0	51.5		ug/L		103	80 - 120
Boron	1000	1030		ug/L		103	80 - 120
Cadmium	50.0	52.5		ug/L		105	80 - 120
Calcium	10000	8690		ug/L		87	80 - 120
Chromium	200	215		ug/L		108	80 - 120
Cobalt	500	543		ug/L		109	80 - 120
Copper	250	263		ug/L		105	80 - 120
Iron	1000	1080		ug/L		108	80 - 120
Lead	100	106	^1+	ug/L		106	80 - 120
Lithium	100	108		ug/L		108	80 - 120
Magnesium	10000	10700		ug/L		107	80 - 120
Manganese	500	522		ug/L		104	80 - 120
Molybdenum	1000	995		ug/L		99	80 - 120
Nickel	500	527		ug/L		105	80 - 120
Potassium	10000	10600		ug/L		106	80 - 120
Selenium	100	104		ug/L		104	80 - 120
Silver	50.0	52.0		ug/L		104	80 - 120
Sodium	10000	10500		ug/L		105	80 - 120
Strontium	1000	1030		ug/L		103	80 - 120
Thallium	100	105		ug/L		105	80 - 120
Tin	1000	1020		ug/L		102	80 - 120
Vanadium	500	527		ug/L		105	80 - 120
Zinc	500	518		ug/L		104	80 - 120

Lab Sample ID: MB 500-781716/1-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:39	08/19/24 18:57	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:39	08/19/24 18:57	1
Arsenic	<0.23		1.0	0.23	ug/L		08/15/24 16:39	08/19/24 18:57	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-781716/1-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.73		2.5	0.73	ug/L		08/15/24 16:39	08/19/24 18:57	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:39	08/19/24 18:57	1
Boron	17.8	J ^+	50	13	ug/L		08/15/24 16:39	08/19/24 18:57	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:39	08/19/24 18:57	1
Calcium	<44		200	44	ug/L		08/15/24 16:39	08/19/24 18:57	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:39	08/19/24 18:57	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:39	08/19/24 18:57	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:39	08/19/24 18:57	1
Iron	<47		100	47	ug/L		08/15/24 16:39	08/19/24 18:57	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 16:39	08/19/24 18:57	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 16:39	08/19/24 18:57	1
Magnesium	<49		200	49	ug/L		08/15/24 16:39	08/19/24 18:57	1
Manganese	<0.79		2.5	0.79	ug/L		08/15/24 16:39	08/19/24 18:57	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:39	08/19/24 18:57	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:39	08/19/24 18:57	1
Potassium	<110		500	110	ug/L		08/15/24 16:39	08/19/24 18:57	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:39	08/19/24 18:57	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:39	08/19/24 18:57	1
Sodium	<77		200	77	ug/L		08/15/24 16:39	08/19/24 18:57	1
Strontium	<0.64		4.0	0.64	ug/L		08/15/24 16:39	08/19/24 18:57	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:39	08/19/24 18:57	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:39	08/19/24 18:57	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:39	08/19/24 18:57	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:39	08/19/24 18:57	1

Lab Sample ID: LCS 500-781716/2-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1980		ug/L		99	80 - 120
Antimony	500	506		ug/L		101	80 - 120
Arsenic	100	98.7		ug/L		99	80 - 120
Barium	500	505		ug/L		101	80 - 120
Beryllium	50.0	50.3		ug/L		101	80 - 120
Boron	1000	1020	^+	ug/L		102	80 - 120
Cadmium	50.0	51.0		ug/L		102	80 - 120
Calcium	10000	8510		ug/L		85	80 - 120
Chromium	200	207		ug/L		103	80 - 120
Cobalt	500	538		ug/L		108	80 - 120
Copper	250	255		ug/L		102	80 - 120
Iron	1000	1060		ug/L		106	80 - 120
Lead	100	101		ug/L		101	80 - 120
Lithium	100	107		ug/L		107	80 - 120
Magnesium	10000	10500		ug/L		105	80 - 120
Manganese	500	520		ug/L		104	80 - 120
Molybdenum	1000	970		ug/L		97	80 - 120
Nickel	500	510		ug/L		102	80 - 120
Potassium	10000	10400		ug/L		104	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781716/2-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	100	99.4		ug/L		99	80 - 120
Silver	50.0	50.4		ug/L		101	80 - 120
Sodium	10000	10300		ug/L		103	80 - 120
Strontium	1000	977		ug/L		98	80 - 120
Thallium	100	104		ug/L		104	80 - 120
Tin	1000	996		ug/L		100	80 - 120
Vanadium	500	516		ug/L		103	80 - 120
Zinc	500	502		ug/L		100	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-779674/3
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			08/02/24 11:30	1
Fluoride	<0.19		1.0	0.19	mg/L			08/02/24 11:30	1
Sulfate	<0.21		1.0	0.21	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779674/4
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	18.6		mg/L		93	90 - 110
Fluoride	20.0	20.6		mg/L		103	90 - 110
Sulfate	20.0	21.5		mg/L		107	90 - 110

Lab Sample ID: MB 500-779675/3
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043	^-	1.0	0.043	mg/L			08/02/24 11:30	1
Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779675/4
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.3	^-	mg/L		96	90 - 110
Nitrite as N	20.0	20.9		mg/L		104	90 - 110
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-780094/3
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/06/24 12:27	1

Lab Sample ID: LCS 500-780094/4
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.4		mg/L		97	90 - 110

Lab Sample ID: MB 500-780095/3
Matrix: Water
Analysis Batch: 780095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.113	J	1.0	0.043	mg/L			08/06/24 12:27	1

Lab Sample ID: LCS 500-780095/4
Matrix: Water
Analysis Batch: 780095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	20.2		mg/L		101	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780769/1-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:19	1

Lab Sample ID: LCS 500-780769/2-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.105		mg/L		105	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-782364/1-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:35	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 500-782364/2-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.02		mg/L		101	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-783635/1-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	0.0260	J	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:37	1

Lab Sample ID: LCS 500-783635/2-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.918		mg/L		92	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-781135/3
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Bicarbonate Alkalinity as CaCO3	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/12/24 16:56	1

Lab Sample ID: LCS 500-781135/4
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-779810/1
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			08/05/24 00:12	1

Lab Sample ID: LCS 500-779810/2
Matrix: Water
Analysis Batch: 779810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-780590/1
Matrix: Water
Analysis Batch: 780590

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/08/24 17:45	1

Lab Sample ID: LCS 500-780590/2
Matrix: Water
Analysis Batch: 780590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	184		mg/L		92	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-780362/1
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			08/07/24 19:12	1

Lab Sample ID: LCS 500-780362/2
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.56		mg/L		98	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-781985/31
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/16/24 01:11	1

Lab Sample ID: LCS 500-781985/32
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.2		mg/L		102	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-781988/7
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			08/15/24 13:59	1

Method: SM 5310C - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: LCS 500-781988/8
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254431-1

Client Sample ID: PNC-03_20240801

Lab Sample ID: 500-254431-1

Date Collected: 08/01/24 08:30

Matrix: Water

Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Dissolved	Analysis	1630		1	2538	CL	EET SSM	08/08/24 23:28
Total/NA	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Total/NA	Analysis	1630		1	2538	CL	EET SSM	08/08/24 23:18
Dissolved	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 17:48
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 17:44
Dissolved	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Dissolved	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 15:15
Total Recoverable	Prep	1638			2526	V1R	EET SSM	08/08/24 12:16
Total Recoverable	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 16:03
Dissolved	Prep	3005A			781714	S1Z	EET CHI	08/15/24 16:28 - 08/15/24 21:29 [1]
Dissolved	Analysis	6020B		1	782080	RN	EET CHI	08/16/24 17:52
Total Recoverable	Prep	3005A			781716	S1Z	EET CHI	08/15/24 16:39 - 08/15/24 21:40 [1]
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 19:24
Total Recoverable	Prep	3005A			781716	S1Z	EET CHI	08/15/24 16:39 - 08/15/24 21:40 [1]
Total Recoverable	Analysis	SM 2340B		1	782125	DAJ	EET CHI	08/19/24 09:57
Total/NA	Analysis	300.0		1	780095	W1T	EET CHI	08/06/24 14:44
Total/NA	Analysis	300.0		5	780094	W1T	EET CHI	08/06/24 15:29
Total/NA	Analysis	300.0		1	779674	W1T	EET CHI	08/02/24 13:19
Total/NA	Analysis	300.0		1	779675	W1T	EET CHI	08/02/24 13:19
Total/NA	Prep	Distill/CN			780769	AC	EET CHI	08/12/24 09:21 - 08/12/24 09:51 [1]
Total/NA	Analysis	335.4		1	780985	AC	EET CHI	08/12/24 12:41
Total/NA	Prep	Distill/Ammonia			782364	EB	EET CHI	08/20/24 11:33 - 08/20/24 12:33 [1]
Total/NA	Analysis	350.1		1	782798	KF	EET CHI	08/22/24 10:46
Total/NA	Prep	365.2/365.3/365			783635	ER	EET CHI	08/28/24 09:30 - 08/28/24 13:22 [1]
Total/NA	Analysis	365.1		1	783821	KF	EET CHI	08/29/24 08:44
Total/NA	Analysis	SM 2320B		1	781135	SO	EET CHI	08/12/24 19:18
Total/NA	Analysis	SM 2520B		1	782060	TR	EET CHI	08/19/24 08:00
Total/NA	Analysis	SM 2540C		1	779810	CLB	EET CHI	08/05/24 01:01
Total/NA	Analysis	SM 2540D		1	780590	SO	EET CHI	08/08/24 18:17 - 08/08/24 18:19 [1]
Total/NA	Analysis	SM 4500 S2 F		1	780362	CLB	EET CHI	08/07/24 20:24 - 08/07/24 20:29 [1]
Dissolved	Analysis	SM 5310C		1	781988	TR	EET CHI	08/15/24 20:03
Total/NA	Analysis	SM 5310C		1	781985	TR	EET CHI	08/16/24 05:22

Client Sample ID: PNC-03_20240801_FBLL

Lab Sample ID: 500-254431-2

Date Collected: 08/01/24 08:30

Matrix: Water

Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 17:52

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254431-1

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254431-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1449	COC No: 500-126351-50241 73
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254431
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B - NaOH
D HNC
A HCL

500-254431 COC

Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC SM5310	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, ~~9056_CR-CR6~~, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	~~3500_CR_B - Dissolved Chromium, Hex (field filtered)~~	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	N		
1 PNC-03_20240801	08-01-24	0830	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	18	
2 PNC-03_20240801_FBLL	08-01-24	0830	G	Water										✓						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/1/24 1430	MSG	[signature]	8/1/24 1430	MSG
2	[signature]	8/1/24 1600	MSG	4051 7962 1449	8/1/24 1600	Fedex
3				Euphonie Hernandez	8/2/24 0965	EETA

Custody Seals Intact. Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 5.1-5.0

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1449	COC No: 500-126351-50241 74
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254431
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S - H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				A		
1	PNC-03_20240801	08-01-24	0830	G	Water			✓	1	
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					
				G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen Coppernoll	8/1/24 1430	MSG		8/1/24 1430	MSG
2		8/1/24 1600	MSG	4051 7962 1449	8/1/24 1600	fedex
3		Date/Time	Company	Stephanie Hernandez	8/2/24 0965	EEA

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.


THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

CAD: 0780307/CAFE3808

Part # 159469-434 MTW EXP 01/25

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-6200 REF:
INV:
PO: DEPT:

RMA:

FedEx Express

J241028112201uv

FRI - 02 AUG AA
PRIORITY OVERNIGHT

TRK# 0221 4051 7962 1449

60484
IL-US
ORD

XP JOTA

5025547 01Aug2024 CMXA 581G6/A12D/C0B8

500-254431 Waybi

48 at

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254431-1

Login Number: 254431
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254431-1

Login Number: 254431
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 08/06/24 01:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254431 Field Sheet

Date:	8/6/2024
End Time:	13:42
pH Paper Lot:	hc324723
Analyst:	KL

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254431-K-1	KL				
500-254431-J-1	KL				
500-254431-E-1	KL				
500-254431-F-1	KL				

8/6/24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/29/2024 7:58:03 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254432-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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8/29/2024 7:58:03 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254432-1

Receipt
The samples were received on 8/2/2024 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0º C.

Metals
Method 6020B: The initial low level calibration verification (ICVL) result for batch 500-782080 was above the upper control limit. The affected analytes are: Lead. Sample results were below the reporting limit, and have been reported as qualified data.

Method 6020B: The continuing calibration verification (CCV) associated with batch 500-782080 recovered above the upper control limit for Cobalt. The samples associated with this CCV were below the reporting limit for the affected analytes; therefore, the data have been reported.

Method 6020B: The continuing calibration verification (CCV) associated with batch 500-782311 recovered above the upper control limit for Boron. The samples results associated with this CCV were below the reporting limit for the affected analytes or QC samples that recovered within control limits; therefore, the data have been reported.

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- CCB (Incomplete Integration)

Methods 1638, 200.8 LL: The continuing calibration blank (CCB) for analytical batch 350-2539 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Methods 300.0, 9056A: The method blank for analytical batch 500-780095 contained Nitrate as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM 2320B: The method blank for analytical batch 500-781135 contained Alkalinity and Bicarbonate Alkalinity as CaCO3 above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 365.1: The method blank for preparation batch 500-783635 and analytical batch 500-783821 contained Phosphorus as P above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The continuing calibration verification (CCV) associated with batch 500-779675 recovered below the lower control limit for Nitrate as N. The samples associated with this CCV were rerun with confirming results ; therefore, the data have been reported. MW-2A_20240801 (500-254432-1), (LCS 500-779675/4) and (MB 500-779675/3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254432-1

Client Sample ID: MW-2A_20240801 — Lab Sample ID: 500-254432-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.22	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.23	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.74		0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.70	B	0.030	0.0098	ug/L	1		1638	Dissolved
Arsenic	1.7		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	310		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	510	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	140000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	0.42	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Iron	2100		100	47	ug/L	1		6020B	Total Recoverable
Lithium	46		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	35000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	800		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	3.3	J	5.0	2.5	ug/L	1		6020B	Total Recoverable
Nickel	0.63	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	1600		500	110	ug/L	1		6020B	Total Recoverable
Sodium	82000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	2300		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	1.3		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	310		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	500	B	50	13	ug/L	1		6020B	Dissolved
Calcium	140000		200	44	ug/L	1		6020B	Dissolved
Cobalt	0.41	J ^+	1.0	0.40	ug/L	1		6020B	Dissolved
Iron	1500		100	47	ug/L	1		6020B	Dissolved
Lithium	46		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	35000		200	49	ug/L	1		6020B	Dissolved
Manganese	740		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	3.6	J	5.0	2.5	ug/L	1		6020B	Dissolved
Nickel	0.67	J	2.0	0.63	ug/L	1		6020B	Dissolved
Potassium	1600		500	110	ug/L	1		6020B	Dissolved
Sodium	80000		200	77	ug/L	1		6020B	Dissolved
Strontium	2200		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	500		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	1.2		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	120		10	1.2	mg/L	10		300.0	Total/NA
Fluoride	0.23	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	0.40	J	1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.069	B	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	460	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-2A_20240801 (Continued) — Lab Sample ID: 500-254432-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO3	460	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.40		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	680		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	6.2		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	5.4		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	5.5		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-2A_20240801_FBLL — Lab Sample ID: 500-254432-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254432-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254432-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254432-1	MW-2A_20240801	Water	08/01/24 10:30	08/02/24 09:55
500-254432-2	MW-2A_20240801_FBLL	Water	08/01/24 10:30	08/02/24 09:55

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254432-1

Client Sample ID: MW-2A_20240801

Lab Sample ID: 500-254432-1

Date Collected: 08/01/24 10:30

Matrix: Water

Date Received: 08/02/24 09:55

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 21:36	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 21:46	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**	**J**	0.50	0.20	ng/L			08/08/24 18:08	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.23**	**J**	0.50	0.20	ng/L			08/08/24 18:21	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.74**		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 16:14	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.70**	**B**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 15:19	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:39	08/19/24 19:26	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:39	08/19/24 19:26	1
Arsenic	**1.7**		1.0	0.23	ug/L		08/15/24 16:39	08/19/24 19:26	1
Barium	**310**		2.5	0.73	ug/L		08/15/24 16:39	08/19/24 19:26	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:39	08/19/24 19:26	1
Boron	**510**	**B**	50	13	ug/L		08/15/24 16:39	08/19/24 19:26	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:39	08/19/24 19:26	1
Calcium	**140000**		200	44	ug/L		08/15/24 16:39	08/19/24 19:26	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:39	08/19/24 19:26	1
Cobalt	**0.42**	**J**	1.0	0.40	ug/L		08/15/24 16:39	08/19/24 19:26	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:39	08/19/24 19:26	1
Iron	**2100**		100	47	ug/L		08/15/24 16:39	08/19/24 19:26	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 16:39	08/19/24 19:26	1
Lithium	**46**		10	2.5	ug/L		08/15/24 16:39	08/19/24 19:26	1
Magnesium	**35000**		200	49	ug/L		08/15/24 16:39	08/19/24 19:26	1
Manganese	**800**		2.5	0.79	ug/L		08/15/24 16:39	08/19/24 19:26	1
Molybdenum	**3.3**	**J**	5.0	2.5	ug/L		08/15/24 16:39	08/19/24 19:26	1
Nickel	**0.63**	**J**	2.0	0.63	ug/L		08/15/24 16:39	08/19/24 19:26	1
Potassium	**1600**		500	110	ug/L		08/15/24 16:39	08/19/24 19:26	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:39	08/19/24 19:26	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:39	08/19/24 19:26	1
Sodium	**82000**		200	77	ug/L		08/15/24 16:39	08/19/24 19:26	1
Strontium	**2300**		4.0	0.64	ug/L		08/15/24 16:39	08/19/24 19:26	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:39	08/19/24 19:26	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:39	08/19/24 19:26	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:39	08/19/24 19:26	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:39	08/19/24 19:26	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254432-1

Client Sample ID: MW-2A_20240801

Date Collected: 08/01/24 10:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254432-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:28	08/16/24 17:54	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:54	1
Arsenic	**1.3**		1.0	0.23	ug/L		08/15/24 16:28	08/16/24 17:54	1
Barium	**310**		2.5	0.73	ug/L		08/15/24 16:28	08/16/24 17:54	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:28	08/16/24 17:54	1
Boron	**500**	**B**	50	13	ug/L		08/15/24 16:28	08/16/24 17:54	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:28	08/16/24 17:54	1
Calcium	**140000**		200	44	ug/L		08/15/24 16:28	08/16/24 17:54	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:28	08/16/24 17:54	1
Cobalt	**0.41**	**J ^+**	1.0	0.40	ug/L		08/15/24 16:28	08/16/24 17:54	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:28	08/16/24 17:54	1
Iron	**1500**		100	47	ug/L		08/15/24 16:28	08/16/24 17:54	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/15/24 16:28	08/16/24 17:54	1
Lithium	**46**		10	2.5	ug/L		08/15/24 16:28	08/16/24 17:54	1
Magnesium	**35000**		200	49	ug/L		08/15/24 16:28	08/16/24 17:54	1
Manganese	**740**		2.5	0.79	ug/L		08/15/24 16:28	08/16/24 17:54	1
Molybdenum	**3.6**	**J**	5.0	2.5	ug/L		08/15/24 16:28	08/16/24 17:54	1
Nickel	**0.67**	**J**	2.0	0.63	ug/L		08/15/24 16:28	08/16/24 17:54	1
Potassium	**1600**		500	110	ug/L		08/15/24 16:28	08/16/24 17:54	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:28	08/16/24 17:54	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:28	08/16/24 17:54	1
Sodium	**80000**		200	77	ug/L		08/15/24 16:28	08/16/24 17:54	1
Strontium	**2200**		4.0	0.64	ug/L		08/15/24 16:28	08/16/24 17:54	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:28	08/16/24 17:54	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:54	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:28	08/16/24 17:54	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:28	08/16/24 17:54	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**500**		0.91	0.46	mg/L		08/15/24 16:39	08/19/24 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**1.2**		1.0	0.18	mg/L			08/02/24 13:35	1
Nitrate as N (EPA 300.0)	<0.043	^-	1.0	0.043	mg/L			08/02/24 13:35	1
Chloride (EPA 300.0)	**120**		10	1.2	mg/L			08/06/24 15:59	10
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/02/24 13:35	1
Fluoride (EPA 300.0)	**0.23**	**J**	1.0	0.19	mg/L			08/02/24 13:35	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/02/24 13:35	1
Sulfate (EPA 300.0)	**0.40**	**J**	1.0	0.21	mg/L			08/02/24 13:35	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:43	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:46	1
Phosphorus as P (EPA 365.1)	**0.069**	**B**	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:45	1
Alkalinity (SM 2320B)	**460**	**B**	5.0	3.7	mg/L			08/12/24 19:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**460**	**B**	5.0	3.7	mg/L			08/12/24 19:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/12/24 19:27	1
Salinity (SM 2520B)	**0.40**		0.33	0.33	psu			08/19/24 08:00	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254432-1

Client Sample ID: MW-2A_20240801
Date Collected: 08/01/24 10:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254432-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	680		10	4.3	mg/L			08/06/24 00:19	1
Total Suspended Solids (SM 2540D)	6.2		5.0	1.9	mg/L			08/08/24 18:13	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			08/07/24 20:29	1
Total Organic Carbon (SM 5310C)	5.4		1.0	0.47	mg/L			08/16/24 04:54	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	5.5		1.0	0.47	mg/L			08/15/24 20:31	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254432-1

Client Sample ID: MW-2A_20240801_FBLL
Date Collected: 08/01/24 10:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254432-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 18:25	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254432-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Dissolved	Water	1638	
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Prep Batch: 2525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Dissolved	Water	1630	
500-254432-1	MW-2A_20240801	Total/NA	Water	1630	
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	

Prep Batch: 2526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total Recoverable	Water	1638	
MB 350-2526/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2526/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2526/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2526/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Dissolved	Water	1631E	
500-254432-1	MW-2A_20240801	Total/NA	Water	1631E	
500-254432-2	MW-2A_20240801_FBLL	Total/NA	Water	1631E	
MB 350-2531/20	Method Blank	Total/NA	Water	1631E	
MB 350-2531/23	Method Blank	Total/NA	Water	1631E	
MB 350-2531/24	Method Blank	Total/NA	Water	1631E	
LCS 350-2531/30	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2531/31	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Dissolved	Water	1630	2525
500-254432-1	MW-2A_20240801	Total/NA	Water	1630	2525
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	2525
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	2525
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	2525

Analysis Batch: 2539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Dissolved	Water	1638	2524
500-254432-1	MW-2A_20240801	Total Recoverable	Water	1638	2526
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	2524
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	2524

Metals (Continued)

Analysis Batch: 2539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 350-2526/1-A	Method Blank	Total Recoverable	Water	1638	2526
MB 350-2526/2-A	Method Blank	Total Recoverable	Water	1638	2526
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	2524
LCS 350-2526/3-A	Lab Control Sample	Total Recoverable	Water	1638	2526
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2524
LCSD 350-2526/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2526

Prep Batch: 781714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Dissolved	Water	3005A	
MB 500-781714/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781714/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 781716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total Recoverable	Water	3005A	
MB 500-781716/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781716/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 782080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Dissolved	Water	6020B	781714
MB 500-781714/1-A	Method Blank	Total Recoverable	Water	6020B	781714
LCS 500-781714/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781714

Analysis Batch: 782126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total Recoverable	Water	SM 2340B	781716

Analysis Batch: 782311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total Recoverable	Water	6020B	781716
MB 500-781716/1-A	Method Blank	Total Recoverable	Water	6020B	781716
LCS 500-781716/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781716

General Chemistry

Analysis Batch: 779674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total/NA	Water	300.0	
MB 500-779674/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779674/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total/NA	Water	300.0	
MB 500-779675/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779675/4	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 779992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total/NA	Water	SM 2540C	
MB 500-779992/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779992/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 780094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total/NA	Water	300.0	
MB 500-780094/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780094/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total/NA	Water	SM 4500 S2 F	
MB 500-780362/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-780362/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 780590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total/NA	Water	SM 2540D	
MB 500-780590/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-780590/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 780769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total/NA	Water	Distill/CN	
MB 500-780769/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total/NA	Water	335.4	780769
MB 500-780769/1-A	Method Blank	Total/NA	Water	335.4	780769
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	335.4	780769

Analysis Batch: 781135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total/NA	Water	SM 2320B	
MB 500-781135/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-781135/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 781985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total/NA	Water	SM 5310C	
MB 500-781985/31	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-781985/32	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 781988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Dissolved	Water	SM 5310C	
MB 500-781988/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-781988/8	Lab Control Sample	Dissolved	Water	SM 5310C	

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254432-1

General Chemistry

Analysis Batch: 782060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total/NA	Water	SM 2520B	

Prep Batch: 782364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total/NA	Water	Distill/Ammonia	
MB 500-782364/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 782798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total/NA	Water	350.1	782364
MB 500-782364/1-A	Method Blank	Total/NA	Water	350.1	782364
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	350.1	782364

Prep Batch: 783635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total/NA	Water	365.2/365.3/365	
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 783821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254432-1	MW-2A_20240801	Total/NA	Water	365.1	783635
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.1	783635
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.1	783635

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2525/1-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:32	1

Lab Sample ID: MB 350-2525/28-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:43	1

Lab Sample ID: MB 350-2525/29-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:53	1

Lab Sample ID: LCS 350-2525/2-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.937		ng/L		94	65 - 135

Lab Sample ID: LCSD 350-2525/3-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.952		ng/L		95	65 - 135	2	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2531/20
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:00	1

Lab Sample ID: MB 350-2531/23
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:12	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2531/24
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:16	1

Lab Sample ID: LCS 350-2531/30
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.77		ng/L		95	77 - 123

Lab Sample ID: LCSD 350-2531/31
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.81		ng/L		96	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2524/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0219	J	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:12	1

Lab Sample ID: MB 350-2524/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:15	1

Lab Sample ID: LCS 350-2524/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.3		ug/L		89	85 - 115

Lab Sample ID: LCSD 350-2524/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	1	20

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 350-2526/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:19	1

Lab Sample ID: MB 350-2526/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:23	1

Lab Sample ID: LCS 350-2526/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.5		ug/L		90	85 - 115

Lab Sample ID: LCSD 350-2526/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781714/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:28	08/16/24 17:24	1
Antimony	1.60	J	3.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:24	1
Arsenic	<0.23		1.0	0.23	ug/L		08/15/24 16:28	08/16/24 17:24	1
Barium	<0.73		2.5	0.73	ug/L		08/15/24 16:28	08/16/24 17:24	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:28	08/16/24 17:24	1
Boron	13.1	J	50	13	ug/L		08/15/24 16:28	08/16/24 17:24	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:28	08/16/24 17:24	1
Calcium	<44		200	44	ug/L		08/15/24 16:28	08/16/24 17:24	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:28	08/16/24 17:24	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:28	08/16/24 17:24	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:28	08/16/24 17:24	1
Iron	<47		100	47	ug/L		08/15/24 16:28	08/16/24 17:24	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/15/24 16:28	08/16/24 17:24	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 16:28	08/16/24 17:24	1
Magnesium	<49		200	49	ug/L		08/15/24 16:28	08/16/24 17:24	1
Manganese	<0.79		2.5	0.79	ug/L		08/15/24 16:28	08/16/24 17:24	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:28	08/16/24 17:24	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:28	08/16/24 17:24	1
Potassium	<110		500	110	ug/L		08/15/24 16:28	08/16/24 17:24	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:28	08/16/24 17:24	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-781714/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:28	08/16/24 17:24	1
Sodium	<77		200	77	ug/L		08/15/24 16:28	08/16/24 17:24	1
Strontium	<0.64		4.0	0.64	ug/L		08/15/24 16:28	08/16/24 17:24	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:28	08/16/24 17:24	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:28	08/16/24 17:24	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:28	08/16/24 17:24	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:28	08/16/24 17:24	1

Lab Sample ID: LCS 500-781714/2-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2010		ug/L		101	80 - 120
Antimony	500	539		ug/L		108	80 - 120
Arsenic	100	103		ug/L		103	80 - 120
Barium	500	521		ug/L		104	80 - 120
Beryllium	50.0	51.5		ug/L		103	80 - 120
Boron	1000	1030		ug/L		103	80 - 120
Cadmium	50.0	52.5		ug/L		105	80 - 120
Calcium	10000	8690		ug/L		87	80 - 120
Chromium	200	215		ug/L		108	80 - 120
Cobalt	500	543		ug/L		109	80 - 120
Copper	250	263		ug/L		105	80 - 120
Iron	1000	1080		ug/L		108	80 - 120
Lead	100	106	^1+	ug/L		106	80 - 120
Lithium	100	108		ug/L		108	80 - 120
Magnesium	10000	10700		ug/L		107	80 - 120
Manganese	500	522		ug/L		104	80 - 120
Molybdenum	1000	995		ug/L		99	80 - 120
Nickel	500	527		ug/L		105	80 - 120
Potassium	10000	10600		ug/L		106	80 - 120
Selenium	100	104		ug/L		104	80 - 120
Silver	50.0	52.0		ug/L		104	80 - 120
Sodium	10000	10500		ug/L		105	80 - 120
Strontium	1000	1030		ug/L		103	80 - 120
Thallium	100	105		ug/L		105	80 - 120
Tin	1000	1020		ug/L		102	80 - 120
Vanadium	500	527		ug/L		105	80 - 120
Zinc	500	518		ug/L		104	80 - 120

Lab Sample ID: MB 500-781716/1-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/15/24 16:39	08/19/24 18:57	1
Antimony	<1.3		3.0	1.3	ug/L		08/15/24 16:39	08/19/24 18:57	1
Arsenic	<0.23		1.0	0.23	ug/L		08/15/24 16:39	08/19/24 18:57	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-781716/1-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.73		2.5	0.73	ug/L		08/15/24 16:39	08/19/24 18:57	1
Beryllium	<0.53		1.0	0.53	ug/L		08/15/24 16:39	08/19/24 18:57	1
Boron	17.8	J ^+	50	13	ug/L		08/15/24 16:39	08/19/24 18:57	1
Cadmium	<0.17		0.50	0.17	ug/L		08/15/24 16:39	08/19/24 18:57	1
Calcium	<44		200	44	ug/L		08/15/24 16:39	08/19/24 18:57	1
Chromium	<1.1		5.0	1.1	ug/L		08/15/24 16:39	08/19/24 18:57	1
Cobalt	<0.40		1.0	0.40	ug/L		08/15/24 16:39	08/19/24 18:57	1
Copper	<0.50		2.0	0.50	ug/L		08/15/24 16:39	08/19/24 18:57	1
Iron	<47		100	47	ug/L		08/15/24 16:39	08/19/24 18:57	1
Lead	<0.19		0.50	0.19	ug/L		08/15/24 16:39	08/19/24 18:57	1
Lithium	<2.5		10	2.5	ug/L		08/15/24 16:39	08/19/24 18:57	1
Magnesium	<49		200	49	ug/L		08/15/24 16:39	08/19/24 18:57	1
Manganese	<0.79		2.5	0.79	ug/L		08/15/24 16:39	08/19/24 18:57	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/15/24 16:39	08/19/24 18:57	1
Nickel	<0.63		2.0	0.63	ug/L		08/15/24 16:39	08/19/24 18:57	1
Potassium	<110		500	110	ug/L		08/15/24 16:39	08/19/24 18:57	1
Selenium	<0.98		2.5	0.98	ug/L		08/15/24 16:39	08/19/24 18:57	1
Silver	<0.12		0.50	0.12	ug/L		08/15/24 16:39	08/19/24 18:57	1
Sodium	<77		200	77	ug/L		08/15/24 16:39	08/19/24 18:57	1
Strontium	<0.64		4.0	0.64	ug/L		08/15/24 16:39	08/19/24 18:57	1
Thallium	<0.57		2.0	0.57	ug/L		08/15/24 16:39	08/19/24 18:57	1
Tin	<1.3		5.0	1.3	ug/L		08/15/24 16:39	08/19/24 18:57	1
Vanadium	<2.2		5.0	2.2	ug/L		08/15/24 16:39	08/19/24 18:57	1
Zinc	<6.9		20	6.9	ug/L		08/15/24 16:39	08/19/24 18:57	1

Lab Sample ID: LCS 500-781716/2-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1980		ug/L		99	80 - 120
Antimony	500	506		ug/L		101	80 - 120
Arsenic	100	98.7		ug/L		99	80 - 120
Barium	500	505		ug/L		101	80 - 120
Beryllium	50.0	50.3		ug/L		101	80 - 120
Boron	1000	1020	^+	ug/L		102	80 - 120
Cadmium	50.0	51.0		ug/L		102	80 - 120
Calcium	10000	8510		ug/L		85	80 - 120
Chromium	200	207		ug/L		103	80 - 120
Cobalt	500	538		ug/L		108	80 - 120
Copper	250	255		ug/L		102	80 - 120
Iron	1000	1060		ug/L		106	80 - 120
Lead	100	101		ug/L		101	80 - 120
Lithium	100	107		ug/L		107	80 - 120
Magnesium	10000	10500		ug/L		105	80 - 120
Manganese	500	520		ug/L		104	80 - 120
Molybdenum	1000	970		ug/L		97	80 - 120
Nickel	500	510		ug/L		102	80 - 120
Potassium	10000	10400		ug/L		104	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781716/2-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	100	99.4		ug/L		99	80 - 120
Silver	50.0	50.4		ug/L		101	80 - 120
Sodium	10000	10300		ug/L		103	80 - 120
Strontium	1000	977		ug/L		98	80 - 120
Thallium	100	104		ug/L		104	80 - 120
Tin	1000	996		ug/L		100	80 - 120
Vanadium	500	516		ug/L		103	80 - 120
Zinc	500	502		ug/L		100	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-779674/3
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			08/02/24 11:30	1
Fluoride	<0.19		1.0	0.19	mg/L			08/02/24 11:30	1
Sulfate	<0.21		1.0	0.21	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779674/4
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	18.6		mg/L		93	90 - 110
Fluoride	20.0	20.6		mg/L		103	90 - 110
Sulfate	20.0	21.5		mg/L		107	90 - 110

Lab Sample ID: MB 500-779675/3
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043	^-	1.0	0.043	mg/L			08/02/24 11:30	1
Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779675/4
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.3	^-	mg/L		96	90 - 110
Nitrite as N	20.0	20.9		mg/L		104	90 - 110
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-780094/3
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/06/24 12:27	1

Lab Sample ID: LCS 500-780094/4
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.4		mg/L		97	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780769/1-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:19	1

Lab Sample ID: LCS 500-780769/2-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.105		mg/L		105	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-782364/1-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:35	1

Lab Sample ID: LCS 500-782364/2-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.02		mg/L		101	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-783635/1-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	0.0260	J	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:37	1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCS 500-783635/2-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.918		mg/L		92	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-781135/3
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Bicarbonate Alkalinity as CaCO3	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/12/24 16:56	1

Lab Sample ID: LCS 500-781135/4
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-779992/1
Matrix: Water
Analysis Batch: 779992

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			08/06/24 00:14	1

Lab Sample ID: LCS 500-779992/2
Matrix: Water
Analysis Batch: 779992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	232		mg/L		93	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-780590/1
Matrix: Water
Analysis Batch: 780590

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/08/24 17:45	1

Lab Sample ID: LCS 500-780590/2
Matrix: Water
Analysis Batch: 780590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	184		mg/L		92	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-780362/1
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			08/07/24 19:12	1

Lab Sample ID: LCS 500-780362/2
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.56		mg/L		98	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-781985/31
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/16/24 01:11	1

Lab Sample ID: LCS 500-781985/32
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.2		mg/L		102	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-781988/7
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			08/15/24 13:59	1

Lab Sample ID: LCS 500-781988/8
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254432-1

Client Sample ID: MW-2A_20240801

Lab Sample ID: 500-254432-1

Date Collected: 08/01/24 10:30

Matrix: Water

Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Dissolved	Analysis	1630		1	2538	CL	EET SSM	08/08/24 21:46
Total/NA	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Total/NA	Analysis	1630		1	2538	CL	EET SSM	08/08/24 21:36
Dissolved	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 18:21
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 18:08
Dissolved	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Dissolved	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 15:19
Total Recoverable	Prep	1638			2526	V1R	EET SSM	08/08/24 12:16
Total Recoverable	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 16:14
Dissolved	Prep	3005A			781714	S1Z	EET CHI	08/15/24 16:28 - 08/15/24 21:29 [1]
Dissolved	Analysis	6020B		1	782080	RN	EET CHI	08/16/24 17:54
Total Recoverable	Prep	3005A			781716	S1Z	EET CHI	08/15/24 16:39 - 08/15/24 21:40 [1]
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 19:26
Total Recoverable	Prep	3005A			781716	S1Z	EET CHI	08/15/24 16:39 - 08/15/24 21:40 [1]
Total Recoverable	Analysis	SM 2340B		1	782126	DAJ	EET CHI	08/19/24 09:57
Total/NA	Analysis	300.0		10	780094	W1T	EET CHI	08/06/24 15:59
Total/NA	Analysis	300.0		1	779674	W1T	EET CHI	08/02/24 13:35
Total/NA	Analysis	300.0		1	779675	W1T	EET CHI	08/02/24 13:35
Total/NA	Prep	Distill/CN			780769	AC	EET CHI	08/12/24 09:21 - 08/12/24 09:51 [1]
Total/NA	Analysis	335.4		1	780985	AC	EET CHI	08/12/24 12:43
Total/NA	Prep	Distill/Ammonia			782364	EB	EET CHI	08/20/24 11:33 - 08/20/24 12:33 [1]
Total/NA	Analysis	350.1		1	782798	KF	EET CHI	08/22/24 10:46
Total/NA	Prep	365.2/365.3/365			783635	ER	EET CHI	08/28/24 09:30 - 08/28/24 13:22 [1]
Total/NA	Analysis	365.1		1	783821	KF	EET CHI	08/29/24 08:45
Total/NA	Analysis	SM 2320B		1	781135	SO	EET CHI	08/12/24 19:27
Total/NA	Analysis	SM 2520B		1	782060	TR	EET CHI	08/19/24 08:00
Total/NA	Analysis	SM 2540C		1	779992	CLB	EET CHI	08/06/24 00:19
Total/NA	Analysis	SM 2540D		1	780590	SO	EET CHI	08/08/24 18:13 - 08/08/24 18:15 [1]
Total/NA	Analysis	SM 4500 S2 F		1	780362	CLB	EET CHI	08/07/24 20:29 - 08/07/24 20:33 [1]
Dissolved	Analysis	SM 5310C		1	781988	TR	EET CHI	08/15/24 20:31
Total/NA	Analysis	SM 5310C		1	781985	TR	EET CHI	08/16/24 04:54

Client Sample ID: MW-2A_20240801_FBLL

Lab Sample ID: 500-254432-2

Date Collected: 08/01/24 10:30

Matrix: Water

Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 18:25

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254432-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Copperwell	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1450	COC No: 500-126351-50241 90
Client Contact: Amanda Zeidler	Phone: 517 513 2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254432
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S - H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			500-254432 COC
Phone: 906-204-6500	PO #: Purchase Order not required			Other:
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
1	MW-2A_20240801	8-1-24	10:30	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	19	
2	MW-2A_20240801_FBL	8-1-24	10:30	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	8/1/24 1430	MSG		8/1/24 1430	MSG
2		8/1/24 1430	MSG	4051 7962 1450	8/1/24 1600	Fedex
3				Stephanie Hernandez	8/2/24 0955	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 1.1 1 1 0

THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

CAD 0780307/CAFE3808

TO **SAMPLE RECEIPT**
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484

(708) 534-5200 REF:
INV:
PO: DEPT:

RMA:

FedEx Express

J24102311220 1wv

FedEx.
TRK# 0221 4051 7962 1450

FRI - 02 AUG AA
PRIORITY OVERNIGHT

XP JOTA

60484
IL-US
ORD

5025547 01Aug2024 CMXA 581G5/A12D/C0B8

500-254432 Waybi

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone. 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-191258.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-254432-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/22/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: White Pines, MI	Project #: 50023455			
Site	SSOW#			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-2A_20240801 (500-254432-1)	8/1/24	10:30 Eastern		Water			X	X	X	X	X	X	8	
MW-2A_20240801_FBLL (500-254432-2)	8/1/24	10:30 Eastern		Water				X					2	

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 4.3 / -0.3 °C
Delivery: UPS / FedEx / Other.
Ice Type: Blue / Dry / Wet / None
Label Ver.: 1 Packing: B

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 4.2 / -0.3 °C
Delivery: UPS / FedEx / Other.
Ice Type: Blue / Dry / Wet / None
Label Ver.: 1 Packing: B

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 4.5 / 0.5 °C
Delivery: UPS / FedEx / Other.
Ice Type: Blue / Dry / Wet / None
Label Ver.: 1 Packing: B

Note: Since laboratory accreditations are subject to change, Eurofins Chi ...e up... accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification: Unconfirmed 7051 7670 5212	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Shri Sood	8/5/24 0900			8/6/24 10:10	FSFS
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-191257.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-254431-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/22/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: White Pines, MI	Project #: 50023455			
Site	SSOW#			Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
PNC-03_20240801 (500-254431-1)	8/1/24	08:30 Eastern		Water			X	X	X	X	X	X	8	
PNC-03_20240801_FBLL (500-254431-2)	8/1/24	08:30 Eastern		Water				X					2	

Therm. ID: SC02 Cust. Seal: Y / N
Uncorr./Corr. Temp: -0.7 / -0.5 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: ____ Packing: B

Therm. ID: SC02 Cust. Seal: Y / N
Uncorr./Corr. Temp: 0.2 / 0.2 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: ____ Packing: B

Therm. ID: SC02 Cust. Seal: Y / N
Uncorr./Corr. Temp: 0.5 / 0.5 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: ____ Packing: B

Note Since laboratory accreditations are subject to change, Eurofins Chi… accreditation in the State of Origin listed above for analysis/tests/matrix be… immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago … go laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Chicago attention … d under chain-of-custody …

Possible Hazard Identification: Unconfirmed 7051 7670 5212	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/5/24 0900		[signature]	8/6/24 10:14	FEDEX
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM	Carrier Tracking No(s)	COC No
		Fredrick, Sandie		500-191256.1
Client Contact	**Phone**	**E-Mail**	**State of Origin**	**Page**
Shipping/Receiving		Sandra.Fredrick@et.eurofinsus.com	Michigan	Page 1 of 1
Company		**Accreditations Required (See note)**		**Job #**
Eurofins Environment Testing Northwest,		State - Wisconsin		500-254430-1
Address	**Due Date Requested:**			
5755 8th Street East, ,	8/22/2024			
City	**TAT Requested (days):**			
Tacoma				
State, Zip				
WA, 98424				
Phone	**PO #**			
253-922-2310(Tel)				
Email	**WO #**			
Project Name	**Project #**			
White Pines, MI	50023455			
Site	**SSOW#**			

Analysis Requested

Preservation Codes: -

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-1B-R_20240731 (500-254430-1)	7/31/24	17:00 Eastern		Water			X	X	X	X	X	X	8	
MW-1B-R_20240731_FBLL (500-254430-2)	7/31/24	17:00 Eastern		Water				X					2	

Therm. ID: SC02 Cust. Seal: (Y) N
Uncorr./Corr. Temp: 0.3 /0.3 °C
Delivery: UPS / FedEx / Other: 20
Ice Type: Blue / Dry / Wet / None
Label Ver.: 2 Packing: B

Therm. ID: SC02 Cust. Seal: (Y) N
Uncorr./Corr. Temp: -0.2/-0.2 °C
Delivery: UPS / FedEx / Other: 20
Ice Type: Blue / Dry / Wet / None
Label Ver.: 2 Packing: B

Therm. ID: SC02 Cust. Seal: (Y) N
Uncorr./Corr. Temp: 0.5 /0.5 °C
Delivery: UPS / FedEx / Other:
Ice Type: Blue / Dry / Wet / None
Label Ver.: 4 Packing: B

Note Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & ce accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Chicago immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed 7051 7670 5212	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/5/24 0900		[signature]	8/6/24 10:10	[illegible]
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-191255.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-254429-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/22/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: White Pines, MI	Project #: 50023455			
Site	SSOW#			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-1A-R_20240731 (500-254429-1)	7/31/24	15:45 Eastern		Water			X	X	X	X	X	X	8	
MW-1A-R_20240731_FBLL (500-254429-2)	7/31/24	15:45 Eastern		Water				X					2	

Preservation Codes: -

Other:

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 6.3 / 6.3 °C
Delivery: UPS / FedEx / Other:
Ice Type: Blue / Dry / Wet / None
Label Ver.: 2 Packing: B

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 4.2 / 6.2 °C
Delivery: UPS / FedEx / Other:
Ice Type: Blue / Dry / Wet / None
Label Ver.: 4 Packing: B

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 6.3 / 6.5 °C
Delivery: UPS / FedEx / Other:
Ice Type: Blue / Dry / Wet / None
Label Ver.: 4 Packing: B

Note: Since laboratory accreditations are subject to change, Eurofins Chicago ... accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation ... immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed 7051 7670 5212	Return To Client / Disposal By Lab / Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/5/24 0900		[signature]	8/6/24 10:10	[illegible]
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-191254.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-254428-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/22/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: White Pines, MI	Project #: 50023455			
Site	SSOW#			Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
ARC-01_20240731 (500-254428-1)	7/31/24	15:00 Eastern		Water			X	X	X	X	X	X	8	
ARC-01_20240731_FBLL (500-254428-2)	7/31/24	15:00 Eastern		Water				X					2	

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.3 / 0.3 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: 12 Packing: B

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.1 / 0.1 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: 4 Packing: B

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.1 / 0.5 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: 4 Packing: B

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification: Unconfirmed 7051 7670 5212	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/5/24 0900		[signature]	8/6/24 1010	EFS
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-191253.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): State - Wisconsin		Job #: 500-254427-1
Address: 5755 8th Street East, ,	Due Date Requested: 8/22/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #			
Email	WO #			
Project Name: White Pines, MI	Project #: 50023455			
Site	SSOW#			

Analysis Requested

Preservation Codes: -

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-43_20240731 (500-254427-1)	7/31/24	13:00 Eastern		Water			X	X	X	X	X	X	8	
MW-43_20240731_FBLL (500-254427-2)	7/31/24	13:00 Eastern		Water				X					2	

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.3 / 0.3 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: 1 Packing: B

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: -0.2 / -0.2 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: 1 Packing: B

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.5 / 0.5 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: 1 Packing: B

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification: Unconfirmed 7051 7670 5212	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: [signature]	8/5/24 0900		[signature]	8/6/24 10:10	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254432-1

Login Number: 254432
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254432-1

Login Number: 254432
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 08/06/24 01:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254432 Field Sheet

Date:	8/6/2024
End Time:	13:42
pH Paper Lot:	hc324723
Analyst:	IZ

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254432-K-1	IZ				
500-254432-J-1	IZ				
500-254432-E-1	IZ				
500-254432-F-1	IZ			8/6/24	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/29/2024 7:59:19 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254433-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



Generated
8/29/2024 7:59:19 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job ID: 500-254433-1 — Eurofins Chicago

Job Narrative
500-254433-1

Receipt
The samples were received on 8/2/2024 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.6º C.

Metals
Method 6020B: The linear range check (LRC) for batch 782541 recovered outside of control limits for Lithium. Sample results for this analyte were within the high calibration standard therefore data has been qualified and reported. (LRC 500-782541/13)

Method 1630: The following samples analyzed by EPA 1630 required manual integration:
- CCB (Incomplete Integration)

Methods 1638, 200.8 LL: The continuing calibration blank (CCB) for analytical batch 350-2539 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Methods 300.0, 9056A: The method blank for analytical batch 500-780095 contained Nitrate as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM 2320B: The method blank for analytical batch 500-781135 contained Alkalinity and Bicarbonate Alkalinity as CaCO3 above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 365.1: The method blank for preparation batch 500-783635 and analytical batch 500-783821 contained Phosphorus as P above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The continuing calibration verification (CCV) associated with batch 500-779675 recovered below the lower control limit for Nitrate as N. The samples associated with this CCV were rerun with confirming results ; therefore, the data have been reported. MW-2B_20240801 (500-254433-1), (LCS 500-779675/4) and (MB 500-779675/3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254433-1

Client Sample ID: MW-2B_20240801 — Lab Sample ID: 500-254433-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.31	J	0.50	0.20	ng/L	1		1631E	Total/NA
Uranium	23		0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	23	B	0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	40	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	1.4		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	590		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	95	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	92000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	0.60	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	1.7	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	380		100	47	ug/L	1		6020B	Total Recoverable
Lithium	29	^5-	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	59000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	270		2.5	0.79	ug/L	1		6020B	Total Recoverable
Nickel	1.8	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	3300		500	110	ug/L	1		6020B	Total Recoverable
Sodium	22000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	1100	B	4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	7.9		5.0	2.2	ug/L	1		6020B	Total Recoverable
Arsenic	0.74	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	600		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	93	B	50	13	ug/L	1		6020B	Dissolved
Calcium	92000		200	44	ug/L	1		6020B	Dissolved
Copper	1.3	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	51	J	100	47	ug/L	1		6020B	Dissolved
Lithium	30	^5-	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	60000		200	49	ug/L	1		6020B	Dissolved
Manganese	220		2.5	0.79	ug/L	1		6020B	Dissolved
Nickel	1.7	J	2.0	0.63	ug/L	1		6020B	Dissolved
Potassium	3400		500	110	ug/L	1		6020B	Dissolved
Sodium	21000		200	77	ug/L	1		6020B	Dissolved
Strontium	1100	B	4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	5.8		5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	470		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.41	J	1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	42		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.36	J	1.0	0.19	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-2B_20240801 (Continued)

Lab Sample ID: 500-254433-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	13		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.063	B	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	460	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	460	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	>0.33		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	530		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.4	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.7		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	1.8		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-2B_20240801_FBLL

Lab Sample ID: 500-254433-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254433-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254433-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254433-1	MW-2B_20240801	Water	08/01/24 11:30	08/02/24 09:55
500-254433-2	MW-2B_20240801_FBLL	Water	08/01/24 11:30	08/02/24 09:55

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254433-1

Client Sample ID: MW-2B_20240801
Date Collected: 08/01/24 11:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254433-1
Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 21:16	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 21:26	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.31**	**J**	0.50	0.20	ng/L			08/08/24 18:42	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 18:46	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**23**		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 16:17	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**23**	**B**	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 15:30	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**40**	**J**	100	25	ug/L		08/16/24 08:49	08/20/24 17:36	1
Antimony	<1.3		3.0	1.3	ug/L		08/16/24 08:49	08/20/24 17:36	1
Arsenic	**1.4**		1.0	0.23	ug/L		08/16/24 08:49	08/20/24 17:36	1
Barium	**590**		2.5	0.73	ug/L		08/16/24 08:49	08/20/24 17:36	1
Beryllium	<0.53		1.0	0.53	ug/L		08/16/24 08:49	08/20/24 17:36	1
Boron	**95**	**B**	50	13	ug/L		08/16/24 08:49	08/21/24 14:48	1
Cadmium	<0.17		0.50	0.17	ug/L		08/16/24 08:49	08/20/24 17:36	1
Calcium	**92000**		200	44	ug/L		08/16/24 08:49	08/20/24 17:36	1
Chromium	<1.1		5.0	1.1	ug/L		08/16/24 08:49	08/20/24 17:36	1
Cobalt	**0.60**	**J**	1.0	0.40	ug/L		08/16/24 08:49	08/20/24 17:36	1
Copper	**1.7**	**J**	2.0	0.50	ug/L		08/16/24 08:49	08/20/24 17:36	1
Iron	**380**		100	47	ug/L		08/16/24 08:49	08/20/24 17:36	1
Lead	<0.19		0.50	0.19	ug/L		08/16/24 08:49	08/20/24 17:36	1
Lithium	**29**	**^5-**	10	2.5	ug/L		08/16/24 08:49	08/20/24 17:36	1
Magnesium	**59000**		200	49	ug/L		08/16/24 08:49	08/20/24 17:36	1
Manganese	**270**		2.5	0.79	ug/L		08/16/24 08:49	08/20/24 17:36	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/16/24 08:49	08/20/24 17:36	1
Nickel	**1.8**	**J**	2.0	0.63	ug/L		08/16/24 08:49	08/20/24 17:36	1
Potassium	**3300**		500	110	ug/L		08/16/24 08:49	08/20/24 17:36	1
Selenium	<0.98		2.5	0.98	ug/L		08/16/24 08:49	08/20/24 17:36	1
Silver	<0.12		0.50	0.12	ug/L		08/16/24 08:49	08/20/24 17:36	1
Sodium	**22000**		200	77	ug/L		08/16/24 08:49	08/20/24 17:36	1
Strontium	**1100**	**B**	4.0	0.64	ug/L		08/16/24 08:49	08/20/24 17:36	1
Thallium	<0.57		2.0	0.57	ug/L		08/16/24 08:49	08/20/24 17:36	1
Tin	<1.3		5.0	1.3	ug/L		08/16/24 08:49	08/20/24 17:36	1
Vanadium	**7.9**		5.0	2.2	ug/L		08/16/24 08:49	08/20/24 17:36	1
Zinc	<6.9		20	6.9	ug/L		08/16/24 08:49	08/20/24 17:36	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254433-1

Client Sample ID: MW-2B_20240801

Date Collected: 08/01/24 11:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254433-1
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/16/24 08:49	08/20/24 17:39	1
Antimony	<1.3		3.0	1.3	ug/L		08/16/24 08:49	08/20/24 17:39	1
Arsenic	**0.74**	**J**	1.0	0.23	ug/L		08/16/24 08:49	08/20/24 17:39	1
Barium	**600**		2.5	0.73	ug/L		08/16/24 08:49	08/20/24 17:39	1
Beryllium	<0.53		1.0	0.53	ug/L		08/16/24 08:49	08/20/24 17:39	1
Boron	**93**	**B**	50	13	ug/L		08/16/24 08:49	08/21/24 14:50	1
Cadmium	<0.17		0.50	0.17	ug/L		08/16/24 08:49	08/20/24 17:39	1
Calcium	**92000**		200	44	ug/L		08/16/24 08:49	08/20/24 17:39	1
Chromium	<1.1		5.0	1.1	ug/L		08/16/24 08:49	08/20/24 17:39	1
Cobalt	<0.40		1.0	0.40	ug/L		08/16/24 08:49	08/20/24 17:39	1
Copper	**1.3**	**J**	2.0	0.50	ug/L		08/16/24 08:49	08/20/24 17:39	1
Iron	**51**	**J**	100	47	ug/L		08/16/24 08:49	08/20/24 17:39	1
Lead	<0.19		0.50	0.19	ug/L		08/16/24 08:49	08/20/24 17:39	1
Lithium	**30**	**^5-**	10	2.5	ug/L		08/16/24 08:49	08/20/24 17:39	1
Magnesium	**60000**		200	49	ug/L		08/16/24 08:49	08/20/24 17:39	1
Manganese	**220**		2.5	0.79	ug/L		08/16/24 08:49	08/20/24 17:39	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/16/24 08:49	08/20/24 17:39	1
Nickel	**1.7**	**J**	2.0	0.63	ug/L		08/16/24 08:49	08/20/24 17:39	1
Potassium	**3400**		500	110	ug/L		08/16/24 08:49	08/20/24 17:39	1
Selenium	<0.98		2.5	0.98	ug/L		08/16/24 08:49	08/20/24 17:39	1
Silver	<0.12		0.50	0.12	ug/L		08/16/24 08:49	08/20/24 17:39	1
Sodium	**21000**		200	77	ug/L		08/16/24 08:49	08/20/24 17:39	1
Strontium	**1100**	**B**	4.0	0.64	ug/L		08/16/24 08:49	08/20/24 17:39	1
Thallium	<0.57		2.0	0.57	ug/L		08/16/24 08:49	08/20/24 17:39	1
Tin	<1.3		5.0	1.3	ug/L		08/16/24 08:49	08/20/24 17:39	1
Vanadium	**5.8**		5.0	2.2	ug/L		08/16/24 08:49	08/20/24 17:39	1
Zinc	<6.9		20	6.9	ug/L		08/16/24 08:49	08/20/24 17:39	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**470**		0.91	0.46	mg/L		08/16/24 08:49	08/21/24 09:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.41**	**J**	1.0	0.18	mg/L			08/02/24 13:50	1
Nitrate as N (EPA 300.0)	<0.043	^-	1.0	0.043	mg/L			08/02/24 13:50	1
Chloride (EPA 300.0)	**42**		1.0	0.12	mg/L			08/06/24 16:15	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/02/24 13:50	1
Fluoride (EPA 300.0)	**0.36**	**J**	1.0	0.19	mg/L			08/02/24 13:50	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/02/24 13:50	1
Sulfate (EPA 300.0)	**13**		1.0	0.21	mg/L			08/02/24 13:50	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:45	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:47	1
Phosphorus as P (EPA 365.1)	**0.063**	**B**	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:45	1
Alkalinity (SM 2320B)	**460**	**B**	5.0	3.7	mg/L			08/12/24 19:38	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**460**	**B**	5.0	3.7	mg/L			08/12/24 19:38	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/12/24 19:38	1
Salinity (SM 2520B)	**>0.33**		0.33	0.33	psu			08/19/24 08:00	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254433-1

Client Sample ID: MW-2B_20240801
Date Collected: 08/01/24 11:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254433-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	530		10	4.3	mg/L			08/06/24 00:21	1
Total Suspended Solids (SM 2540D)	4.4	J	5.0	1.9	mg/L			08/08/24 18:15	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			08/07/24 20:33	1
Total Organic Carbon (SM 5310C)	1.7		1.0	0.47	mg/L			08/16/24 04:27	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	1.8		1.0	0.47	mg/L			08/15/24 20:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254433-1

Client Sample ID: MW-2B_20240801_FBLL
Date Collected: 08/01/24 11:30
Date Received: 08/02/24 09:55

Lab Sample ID: 500-254433-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 18:50	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254433-1

Qualifiers

Metals

Qualifier	Qualifier Description
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Dissolved	Water	1638	
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Prep Batch: 2525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Dissolved	Water	1630	
500-254433-1	MW-2B_20240801	Total/NA	Water	1630	
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	

Prep Batch: 2526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total Recoverable	Water	1638	
MB 350-2526/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2526/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2526/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2526/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 2531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Dissolved	Water	1631E	
500-254433-1	MW-2B_20240801	Total/NA	Water	1631E	
500-254433-2	MW-2B_20240801_FBLL	Total/NA	Water	1631E	
MB 350-2531/20	Method Blank	Total/NA	Water	1631E	
MB 350-2531/23	Method Blank	Total/NA	Water	1631E	
MB 350-2531/24	Method Blank	Total/NA	Water	1631E	
LCS 350-2531/30	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2531/31	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Dissolved	Water	1630	2525
500-254433-1	MW-2B_20240801	Total/NA	Water	1630	2525
MB 350-2525/1-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/28-A	Method Blank	Total/NA	Water	1630	2525
MB 350-2525/29-A	Method Blank	Total/NA	Water	1630	2525
LCS 350-2525/2-A	Lab Control Sample	Total/NA	Water	1630	2525
LCSD 350-2525/3-A	Lab Control Sample Dup	Total/NA	Water	1630	2525

Analysis Batch: 2539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Dissolved	Water	1638	2524
500-254433-1	MW-2B_20240801	Total Recoverable	Water	1638	2526
MB 350-2524/1-A	Method Blank	Total Recoverable	Water	1638	2524
MB 350-2524/2-A	Method Blank	Total Recoverable	Water	1638	2524

Metals (Continued)

Analysis Batch: 2539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 350-2526/1-A	Method Blank	Total Recoverable	Water	1638	2526
MB 350-2526/2-A	Method Blank	Total Recoverable	Water	1638	2526
LCS 350-2524/3-A	Lab Control Sample	Total Recoverable	Water	1638	2524
LCS 350-2526/3-A	Lab Control Sample	Total Recoverable	Water	1638	2526
LCSD 350-2524/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2524
LCSD 350-2526/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2526

Prep Batch: 781802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Dissolved	Water	3005A	
500-254433-1	MW-2B_20240801	Total Recoverable	Water	3005A	
MB 500-781802/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781802/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 782541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Dissolved	Water	6020B	781802
500-254433-1	MW-2B_20240801	Total Recoverable	Water	6020B	781802
MB 500-781802/1-A	Method Blank	Total Recoverable	Water	6020B	781802
LCS 500-781802/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781802

Analysis Batch: 782560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total Recoverable	Water	SM 2340B	781802

Analysis Batch: 782735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Dissolved	Water	6020B	781802
500-254433-1	MW-2B_20240801	Total Recoverable	Water	6020B	781802

General Chemistry

Analysis Batch: 779674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total/NA	Water	300.0	
MB 500-779674/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779674/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total/NA	Water	300.0	
MB 500-779675/3	Method Blank	Total/NA	Water	300.0	
LCS 500-779675/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 779992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total/NA	Water	SM 2540C	
MB 500-779992/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779992/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry

Analysis Batch: 780094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total/NA	Water	300.0	
MB 500-780094/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780094/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total/NA	Water	SM 4500 S2 F	
MB 500-780362/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-780362/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 780590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total/NA	Water	SM 2540D	
MB 500-780590/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-780590/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 780769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total/NA	Water	Distill/CN	
MB 500-780769/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 780985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total/NA	Water	335.4	780769
MB 500-780769/1-A	Method Blank	Total/NA	Water	335.4	780769
LCS 500-780769/2-A	Lab Control Sample	Total/NA	Water	335.4	780769

Analysis Batch: 781135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total/NA	Water	SM 2320B	
MB 500-781135/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-781135/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 781985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total/NA	Water	SM 5310C	
MB 500-781985/31	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-781985/32	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 781988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Dissolved	Water	SM 5310C	
MB 500-781988/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-781988/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 782060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total/NA	Water	SM 2520B	

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254433-1

General Chemistry

Prep Batch: 782364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total/NA	Water	Distill/Ammonia	
MB 500-782364/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 782798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total/NA	Water	350.1	782364
MB 500-782364/1-A	Method Blank	Total/NA	Water	350.1	782364
LCS 500-782364/2-A	Lab Control Sample	Total/NA	Water	350.1	782364

Prep Batch: 783635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total/NA	Water	365.2/365.3/365	
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 783821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254433-1	MW-2B_20240801	Total/NA	Water	365.1	783635
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.1	783635
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.1	783635

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2525/1-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:32	1

Lab Sample ID: MB 350-2525/28-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:43	1

Lab Sample ID: MB 350-2525/29-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/08/24 12:00	08/08/24 18:53	1

Lab Sample ID: LCS 350-2525/2-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.937		ng/L		94	65 - 135

Lab Sample ID: LCSD 350-2525/3-A
Matrix: Water
Analysis Batch: 2538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.952		ng/L		95	65 - 135	2	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2531/20
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:00	1

Lab Sample ID: MB 350-2531/23
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:12	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2531/24
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/08/24 14:16	1

Lab Sample ID: LCS 350-2531/30
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.77		ng/L		95	77 - 123

Lab Sample ID: LCSD 350-2531/31
Matrix: Water
Analysis Batch: 2531

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.81		ng/L		96	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2524/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0219	J	0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:12	1

Lab Sample ID: MB 350-2524/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:15	1

Lab Sample ID: LCS 350-2524/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.3		ug/L		89	85 - 115

Lab Sample ID: LCSD 350-2524/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	1	20

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 350-2526/1-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:19	1

Lab Sample ID: MB 350-2526/2-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/08/24 12:16	08/09/24 13:23	1

Lab Sample ID: LCS 350-2526/3-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	22.5		ug/L		90	85 - 115

Lab Sample ID: LCSD 350-2526/4-A
Matrix: Water
Analysis Batch: 2539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2526

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	22.5		ug/L		90	85 - 115	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781802/1-A
Matrix: Water
Analysis Batch: 782541

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/16/24 08:49	08/20/24 16:22	1
Antimony	<1.3		3.0	1.3	ug/L		08/16/24 08:49	08/20/24 16:22	1
Arsenic	<0.23		1.0	0.23	ug/L		08/16/24 08:49	08/20/24 16:22	1
Barium	<0.73		2.5	0.73	ug/L		08/16/24 08:49	08/20/24 16:22	1
Beryllium	<0.53		1.0	0.53	ug/L		08/16/24 08:49	08/20/24 16:22	1
Boron	28.9	J	50	13	ug/L		08/16/24 08:49	08/20/24 16:22	1
Cadmium	<0.17		0.50	0.17	ug/L		08/16/24 08:49	08/20/24 16:22	1
Calcium	<44		200	44	ug/L		08/16/24 08:49	08/20/24 16:22	1
Chromium	<1.1		5.0	1.1	ug/L		08/16/24 08:49	08/20/24 16:22	1
Cobalt	<0.40		1.0	0.40	ug/L		08/16/24 08:49	08/20/24 16:22	1
Copper	<0.50		2.0	0.50	ug/L		08/16/24 08:49	08/20/24 16:22	1
Iron	<47		100	47	ug/L		08/16/24 08:49	08/20/24 16:22	1
Lead	<0.19		0.50	0.19	ug/L		08/16/24 08:49	08/20/24 16:22	1
Lithium	<2.5	^5-	10	2.5	ug/L		08/16/24 08:49	08/20/24 16:22	1
Magnesium	<49		200	49	ug/L		08/16/24 08:49	08/20/24 16:22	1
Manganese	<0.79		2.5	0.79	ug/L		08/16/24 08:49	08/20/24 16:22	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/16/24 08:49	08/20/24 16:22	1
Nickel	<0.63		2.0	0.63	ug/L		08/16/24 08:49	08/20/24 16:22	1
Potassium	<110		500	110	ug/L		08/16/24 08:49	08/20/24 16:22	1
Selenium	<0.98		2.5	0.98	ug/L		08/16/24 08:49	08/20/24 16:22	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-781802/1-A
Matrix: Water
Analysis Batch: 782541

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.12		0.50	0.12	ug/L		08/16/24 08:49	08/20/24 16:22	1
Sodium	<77		200	77	ug/L		08/16/24 08:49	08/20/24 16:22	1
Strontium	1.63	J	4.0	0.64	ug/L		08/16/24 08:49	08/20/24 16:22	1
Thallium	<0.57		2.0	0.57	ug/L		08/16/24 08:49	08/20/24 16:22	1
Tin	<1.3		5.0	1.3	ug/L		08/16/24 08:49	08/20/24 16:22	1
Vanadium	<2.2		5.0	2.2	ug/L		08/16/24 08:49	08/20/24 16:22	1
Zinc	<6.9		20	6.9	ug/L		08/16/24 08:49	08/20/24 16:22	1

Lab Sample ID: LCS 500-781802/2-A
Matrix: Water
Analysis Batch: 782541

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1910		ug/L		96	80 - 120
Antimony	500	497		ug/L		99	80 - 120
Arsenic	100	99.2		ug/L		99	80 - 120
Barium	500	497		ug/L		99	80 - 120
Beryllium	50.0	51.1		ug/L		102	80 - 120
Boron	1000	1020		ug/L		102	80 - 120
Cadmium	50.0	50.3		ug/L		101	80 - 120
Calcium	10000	8580		ug/L		86	80 - 120
Chromium	200	199		ug/L		100	80 - 120
Cobalt	500	512		ug/L		102	80 - 120
Copper	250	249		ug/L		100	80 - 120
Iron	1000	1020		ug/L		102	80 - 120
Lead	100	99.7		ug/L		100	80 - 120
Lithium	100	99.6	^5-	ug/L		100	80 - 120
Magnesium	10000	10100		ug/L		101	80 - 120
Manganese	500	506		ug/L		101	80 - 120
Molybdenum	1000	968		ug/L		97	80 - 120
Nickel	500	507		ug/L		101	80 - 120
Potassium	10000	10000		ug/L		100	80 - 120
Selenium	100	100		ug/L		100	80 - 120
Silver	50.0	50.2		ug/L		100	80 - 120
Sodium	10000	9920		ug/L		99	80 - 120
Strontium	1000	967		ug/L		97	80 - 120
Thallium	100	102		ug/L		102	80 - 120
Tin	1000	978		ug/L		98	80 - 120
Vanadium	500	491		ug/L		98	80 - 120
Zinc	500	507		ug/L		101	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-779674/3
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			08/02/24 11:30	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-779674/3
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.19		1.0	0.19	mg/L			08/02/24 11:30	1
Sulfate	<0.21		1.0	0.21	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779674/4
Matrix: Water
Analysis Batch: 779674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	18.6		mg/L		93	90 - 110
Fluoride	20.0	20.6		mg/L		103	90 - 110
Sulfate	20.0	21.5		mg/L		107	90 - 110

Lab Sample ID: MB 500-779675/3
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043	^-	1.0	0.043	mg/L			08/02/24 11:30	1
Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			08/02/24 11:30	1

Lab Sample ID: LCS 500-779675/4
Matrix: Water
Analysis Batch: 779675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.3	^-	mg/L		96	90 - 110
Nitrite as N	20.0	20.9		mg/L		104	90 - 110
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Lab Sample ID: MB 500-780094/3
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			08/06/24 12:27	1

Lab Sample ID: LCS 500-780094/4
Matrix: Water
Analysis Batch: 780094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.4		mg/L		97	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-780769/1-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/12/24 09:21	08/12/24 12:19	1

Lab Sample ID: LCS 500-780769/2-A
Matrix: Water
Analysis Batch: 780985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.105		mg/L		105	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-782364/1-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/20/24 11:33	08/22/24 10:35	1

Lab Sample ID: LCS 500-782364/2-A
Matrix: Water
Analysis Batch: 782798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.02		mg/L		101	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-783635/1-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	0.0260	J	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:37	1

Lab Sample ID: LCS 500-783635/2-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.918		mg/L		92	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-781135/3
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Bicarbonate Alkalinity as CaCO3	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/12/24 16:56	1

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 500-781135/4
Matrix: Water
Analysis Batch: 781135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-779992/1
Matrix: Water
Analysis Batch: 779992

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			08/06/24 00:14	1

Lab Sample ID: LCS 500-779992/2
Matrix: Water
Analysis Batch: 779992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	232		mg/L		93	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-780590/1
Matrix: Water
Analysis Batch: 780590

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/08/24 17:45	1

Lab Sample ID: LCS 500-780590/2
Matrix: Water
Analysis Batch: 780590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	184		mg/L		92	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-780362/1
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			08/07/24 19:12	1

Lab Sample ID: LCS 500-780362/2
Matrix: Water
Analysis Batch: 780362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.56		mg/L		98	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-781985/31
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/16/24 01:11	1

Lab Sample ID: LCS 500-781985/32
Matrix: Water
Analysis Batch: 781985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.2		mg/L		102	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-781988/7
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			08/15/24 13:59	1

Lab Sample ID: LCS 500-781988/8
Matrix: Water
Analysis Batch: 781988

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Client Sample ID: MW-2B_20240801

Lab Sample ID: 500-254433-1

Date Collected: 08/01/24 11:30

Matrix: Water

Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Dissolved	Analysis	1630		1	2538	CL	EET SSM	08/08/24 21:26
Total/NA	Prep	1630			2525	JS	EET SSM	08/08/24 12:00
Total/NA	Analysis	1630		1	2538	CL	EET SSM	08/08/24 21:16
Dissolved	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 18:46
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 18:42
Dissolved	Prep	1638			2524	V1R	EET SSM	08/08/24 12:16
Dissolved	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 15:30
Total Recoverable	Prep	1638			2526	V1R	EET SSM	08/08/24 12:16
Total Recoverable	Analysis	1638		1	2539	V1R	EET SSM	08/09/24 16:17
Dissolved	Prep	3005A			781802	BDE	EET CHI	08/16/24 08:49 - 08/16/24 14:49 [1]
Dissolved	Analysis	6020B		1	782541	RN	EET CHI	08/20/24 17:39
Dissolved	Prep	3005A			781802	BDE	EET CHI	08/16/24 08:49 - 08/16/24 14:49 [1]
Dissolved	Analysis	6020B		1	782735	RN	EET CHI	08/21/24 14:50
Total Recoverable	Prep	3005A			781802	BDE	EET CHI	08/16/24 08:49 - 08/16/24 14:49 [1]
Total Recoverable	Analysis	6020B		1	782541	RN	EET CHI	08/20/24 17:36
Total Recoverable	Prep	3005A			781802	BDE	EET CHI	08/16/24 08:49 - 08/16/24 14:49 [1]
Total Recoverable	Analysis	6020B		1	782735	RN	EET CHI	08/21/24 14:48
Total Recoverable	Prep	3005A			781802	BDE	EET CHI	08/16/24 08:49 - 08/16/24 14:49 [1]
Total Recoverable	Analysis	SM 2340B		1	782560	DAJ	EET CHI	08/21/24 09:16
Total/NA	Analysis	300.0		1	780094	W1T	EET CHI	08/06/24 16:15
Total/NA	Analysis	300.0		1	779674	W1T	EET CHI	08/02/24 13:50
Total/NA	Analysis	300.0		1	779675	W1T	EET CHI	08/02/24 13:50
Total/NA	Prep	Distill/CN			780769	AC	EET CHI	08/12/24 09:21 - 08/12/24 09:51 [1]
Total/NA	Analysis	335.4		1	780985	AC	EET CHI	08/12/24 12:45
Total/NA	Prep	Distill/Ammonia			782364	EB	EET CHI	08/20/24 11:33 - 08/20/24 12:33 [1]
Total/NA	Analysis	350.1		1	782798	KF	EET CHI	08/22/24 10:47
Total/NA	Prep	365.2/365.3/365			783635	ER	EET CHI	08/28/24 09:30 - 08/28/24 13:22 [1]
Total/NA	Analysis	365.1		1	783821	KF	EET CHI	08/29/24 08:45
Total/NA	Analysis	SM 2320B		1	781135	SO	EET CHI	08/12/24 19:38
Total/NA	Analysis	SM 2520B		1	782060	TR	EET CHI	08/19/24 08:00
Total/NA	Analysis	SM 2540C		1	779992	CLB	EET CHI	08/06/24 00:21
Total/NA	Analysis	SM 2540D		1	780590	SO	EET CHI	08/08/24 18:15 - 08/08/24 18:17 [1]
Total/NA	Analysis	SM 4500 S2 F		1	780362	CLB	EET CHI	08/07/24 20:33 - 08/07/24 20:37 [1]
Dissolved	Analysis	SM 5310C		1	781988	TR	EET CHI	08/15/24 20:59
Total/NA	Analysis	SM 5310C		1	781985	TR	EET CHI	08/16/24 04:27

Client Sample ID: MW-2B_20240801_FBLL

Lab Sample ID: 500-254433-2

Date Collected: 08/01/24 11:30

Matrix: Water

Date Received: 08/02/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2531	AJD	EET SSM	08/08/24 18:50

Lab Chronicle

Client: White Pine Copper LLC
Job ID: 500-254433-1
Project/Site: White Pines, MI

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254433-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Copperud II	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1438	COC No: 500-126351-50241 17
Client Contact: Amanda Zeidler	Phone: 517 513 2249	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 2
Company: White Pine Copper	PWSID:			Job #: 500-254433
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

Analysis Requested

Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL

Other: 500-254433 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos TOC SM5310	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, ~~9056_CR_B~~	SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	~~9056_CR_D - Dissolved Chromium, Hex (field filtered)~~	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	Total Number of containers	Special Instructions/Note:
	Preservation Code:							S	N	CB	B	S	D	D	N	A	D	D	N	N		
1	MW-2B_20240801	8.1.24	1130	G	Water			X	X	X	X	X	X	X	X	X	X	X	~~X~~ MS	X	18	
2	MW-2B_20240801_FBLL	8.1.24	1130	G	Water										X				MS		2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	8/1/24 1430	MSG		8/1/24 1430	MSG
2		8/1/24 1600	MSG	4051 7962 1438	8/1/24 1600	Fedex
		Date/Time	Company	Received by: Stephanie Hemond	Date/Time 8/2/24 0955	Company EEIA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 5.7 + 5.6

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1438	COC No: 500-126351-50241 18
Client Contact: Amanda Zeidler	Phone: 517 513 2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 2 of 2
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-254433
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW-28_20240801	8.1.24	1130	G	Water			X	1	
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					
			G	Water					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

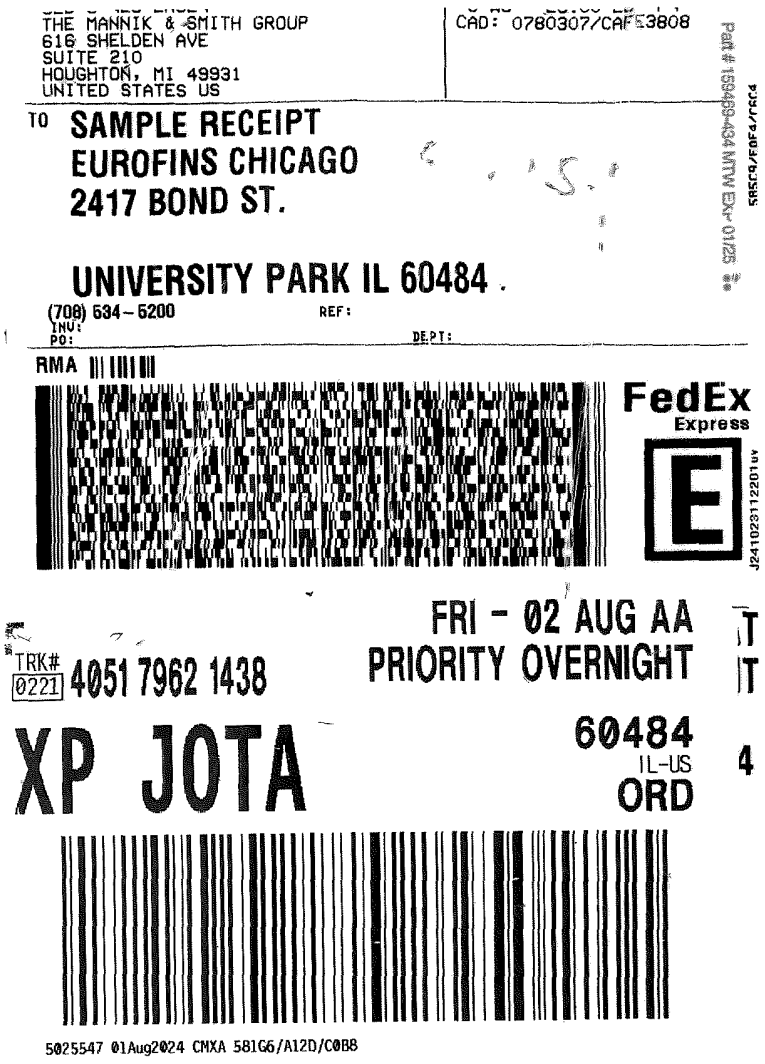
Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/1/24 1430	MSG	[signature]	8/1/24 1430	MSG
2	[signature]	8/1/24 1600	MSG	4051 7962 1438	8/1/24 1600	FedEx
3		Date/Time	Company	Stephanie Hernandez	8/2/24 0955	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks:


THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

CAD: 0780307/CAFE3808

Part # 159469-434 NTW Exp 0125

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484 .

(708) 534-5200 REF:
INV:
PO: DEPT:

RMA

FedEx Express

J241023112201uv

FRI - 02 AUG AA
PRIORITY OVERNIGHT

TRK# 0221 4051 7962 1438

XP JOTA

60484
IL-US
ORD

5025547 01Aug2024 CMXA 581G6/A12D/C0B8

500-254433 Waybi

48at

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254433-1

Login Number: 254433
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254433-1

Login Number: 254433
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 08/06/24 01:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254433 Field Sheet

Date:	8/6/2024
End Time:	13:42
pH Paper Lot:	hc324723
Analyst:	IR

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254433-K-1	<2				
500-254433-J-1	<2			IR	
500-254433-F-1	<2			8:16/24	
500-254433-E-1	<2				

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 8/29/2024 1:22:48 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-254793-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-254793-1

Receipt
The samples were received on 08/08/24 09:55. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.2º C.

Receipt Exceptions
One or more containers for the following sample was received broken or leaking: Sample #1- both vials in total LL Hg Kit received broken. Analysis canceled.

Metals
Method 6020B: The initial low level calibration verification (ICVL) result for batch 500-782080 was above the upper control limit. The affected analyte is: Lead. Sample results were below the reporting limit, and have been reported as qualified data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 365.1: The method blank for preparation batch 500-783635 and analytical batch 500-783821 contained Phosphorus as P above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254793-1

Client Sample ID: SMW-3_20240806 — Lab Sample ID: 500-254793-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.25	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.22	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.27		0.030	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.20		0.030	0.0098	ug/L	1		1638	Dissolved
Aluminum	310		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	1.2		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	45		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	300	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	12000		200	44	ug/L	1		6020B	Total Recoverable
Copper	1.1	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	270		100	47	ug/L	1		6020B	Total Recoverable
Lead	0.37	J ^1+	0.50	0.19	ug/L	1		6020B	Total Recoverable
Magnesium	2000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	21		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	18		5.0	2.5	ug/L	1		6020B	Total Recoverable
Nickel	0.89	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	1100		500	110	ug/L	1		6020B	Total Recoverable
Sodium	46000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	130		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	2.2	J	5.0	2.2	ug/L	1		6020B	Total Recoverable
Arsenic	1.0		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	39		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	290	B	50	13	ug/L	1		6020B	Dissolved
Calcium	11000		200	44	ug/L	1		6020B	Dissolved
Magnesium	1800		200	49	ug/L	1		6020B	Dissolved
Manganese	15		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	18		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	1000		500	110	ug/L	1		6020B	Dissolved
Sodium	44000		200	77	ug/L	1		6020B	Dissolved
Strontium	130		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	38		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	38		1.0	0.12	mg/L	1		300.0	Total/NA
Ammonia	0.40		0.20	0.10	mg/L	1		350.1	Total/NA
Phosphorus as P	0.063	B	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	71		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	71		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	160		10	4.3	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SMW-3_20240806 (Continued) — Lab Sample ID: 500-254793-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	19		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	2.5		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	2.4		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: SMW-3_20240806_FBLL — Lab Sample ID: 500-254793-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254793-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254793-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254793-1	SMW-3_20240806	Water	08/06/24 13:00	08/08/24 09:55
500-254793-2	SMW-3_20240806_FBLL	Water	08/06/24 13:00	08/08/24 09:55

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254793-1

Client Sample ID: SMW-3_20240806
Date Collected: 08/06/24 13:00
Date Received: 08/08/24 09:55

Lab Sample ID: 500-254793-1
Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 19:31	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 19:41	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.25**	**J**	0.50	0.20	ng/L			08/12/24 14:00	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**	**J**	0.50	0.20	ng/L			08/12/24 16:34	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.27**		0.030	0.0098	ug/L		08/14/24 17:10	08/15/24 12:56	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.20**		0.030	0.0098	ug/L		08/14/24 17:10	08/15/24 12:53	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**310**		100	25	ug/L		08/14/24 15:44	08/16/24 20:12	1
Antimony	<1.3		3.0	1.3	ug/L		08/14/24 15:44	08/16/24 20:12	1
Arsenic	**1.2**		1.0	0.23	ug/L		08/14/24 15:44	08/16/24 20:12	1
Barium	**45**		2.5	0.73	ug/L		08/14/24 15:44	08/16/24 20:12	1
Beryllium	<0.53		1.0	0.53	ug/L		08/14/24 15:44	08/16/24 20:12	1
Boron	**300**	**B**	50	13	ug/L		08/14/24 15:44	08/19/24 13:37	1
Cadmium	<0.17		0.50	0.17	ug/L		08/14/24 15:44	08/16/24 20:12	1
Calcium	**12000**		200	44	ug/L		08/14/24 15:44	08/16/24 20:12	1
Chromium	<1.1		5.0	1.1	ug/L		08/14/24 15:44	08/16/24 20:12	1
Cobalt	<0.40		1.0	0.40	ug/L		08/14/24 15:44	08/16/24 20:12	1
Copper	**1.1**	**J**	2.0	0.50	ug/L		08/14/24 15:44	08/16/24 20:12	1
Iron	**270**		100	47	ug/L		08/14/24 15:44	08/16/24 20:12	1
Lead	**0.37**	**J ^1+**	0.50	0.19	ug/L		08/14/24 15:44	08/16/24 20:12	1
Lithium	<2.5		10	2.5	ug/L		08/14/24 15:44	08/16/24 20:12	1
Magnesium	**2000**		200	49	ug/L		08/14/24 15:44	08/16/24 20:12	1
Manganese	**21**		2.5	0.79	ug/L		08/14/24 15:44	08/16/24 20:12	1
Molybdenum	**18**		5.0	2.5	ug/L		08/14/24 15:44	08/16/24 20:12	1
Nickel	**0.89**	**J**	2.0	0.63	ug/L		08/14/24 15:44	08/16/24 20:12	1
Potassium	**1100**		500	110	ug/L		08/14/24 15:44	08/16/24 20:12	1
Selenium	<0.98		2.5	0.98	ug/L		08/14/24 15:44	08/16/24 20:12	1
Silver	<0.12		0.50	0.12	ug/L		08/14/24 15:44	08/16/24 20:12	1
Sodium	**46000**		200	77	ug/L		08/14/24 15:44	08/19/24 13:37	1
Strontium	**130**		4.0	0.64	ug/L		08/14/24 15:44	08/16/24 20:12	1
Thallium	<0.57		2.0	0.57	ug/L		08/14/24 15:44	08/16/24 20:12	1
Tin	<1.3		5.0	1.3	ug/L		08/14/24 15:44	08/16/24 20:12	1
Vanadium	**2.2**	**J**	5.0	2.2	ug/L		08/14/24 15:44	08/16/24 20:12	1
Zinc	<6.9		20	6.9	ug/L		08/14/24 15:44	08/16/24 20:12	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254793-1

Client Sample ID: SMW-3_20240806

Date Collected: 08/06/24 13:00
Date Received: 08/08/24 09:55

Lab Sample ID: 500-254793-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/14/24 15:44	08/16/24 20:06	1
Antimony	<1.3		3.0	1.3	ug/L		08/14/24 15:44	08/16/24 20:06	1
Arsenic	**1.0**		1.0	0.23	ug/L		08/14/24 15:44	08/16/24 20:06	1
Barium	**39**		2.5	0.73	ug/L		08/14/24 15:44	08/16/24 20:06	1
Beryllium	<0.53		1.0	0.53	ug/L		08/14/24 15:44	08/16/24 20:06	1
Boron	**290**	**B**	50	13	ug/L		08/14/24 15:44	08/19/24 13:30	1
Cadmium	<0.17		0.50	0.17	ug/L		08/14/24 15:44	08/16/24 20:06	1
Calcium	**11000**		200	44	ug/L		08/14/24 15:44	08/16/24 20:06	1
Chromium	<1.1		5.0	1.1	ug/L		08/14/24 15:44	08/16/24 20:06	1
Cobalt	<0.40		1.0	0.40	ug/L		08/14/24 15:44	08/16/24 20:06	1
Copper	<0.50		2.0	0.50	ug/L		08/14/24 15:44	08/16/24 20:06	1
Iron	<47		100	47	ug/L		08/14/24 15:44	08/16/24 20:06	1
Lead	<0.19	^1+	0.50	0.19	ug/L		08/14/24 15:44	08/16/24 20:06	1
Lithium	<2.5		10	2.5	ug/L		08/14/24 15:44	08/16/24 20:06	1
Magnesium	**1800**		200	49	ug/L		08/14/24 15:44	08/16/24 20:06	1
Manganese	**15**		2.5	0.79	ug/L		08/14/24 15:44	08/16/24 20:06	1
Molybdenum	**18**		5.0	2.5	ug/L		08/14/24 15:44	08/16/24 20:06	1
Nickel	<0.63		2.0	0.63	ug/L		08/14/24 15:44	08/16/24 20:06	1
Potassium	**1000**		500	110	ug/L		08/14/24 15:44	08/16/24 20:06	1
Selenium	<0.98		2.5	0.98	ug/L		08/14/24 15:44	08/16/24 20:06	1
Silver	<0.12		0.50	0.12	ug/L		08/14/24 15:44	08/16/24 20:06	1
Sodium	**44000**		200	77	ug/L		08/14/24 15:44	08/19/24 13:30	1
Strontium	**130**		4.0	0.64	ug/L		08/14/24 15:44	08/16/24 20:06	1
Thallium	<0.57		2.0	0.57	ug/L		08/14/24 15:44	08/16/24 20:06	1
Tin	<1.3		5.0	1.3	ug/L		08/14/24 15:44	08/16/24 20:06	1
Vanadium	<2.2		5.0	2.2	ug/L		08/14/24 15:44	08/16/24 20:06	1
Zinc	<6.9		20	6.9	ug/L		08/14/24 15:44	08/16/24 20:06	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**38**		0.91	0.46	mg/L		08/14/24 15:44	08/19/24 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			08/08/24 11:40	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			08/08/24 11:40	1
Chloride (EPA 300.0)	**38**		1.0	0.12	mg/L			08/08/24 11:40	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/08/24 11:40	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			08/08/24 11:40	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			08/08/24 11:40	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			08/08/24 11:40	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		08/14/24 12:27	08/15/24 12:44	1
Ammonia (EPA 350.1)	**0.40**		0.20	0.10	mg/L		08/16/24 11:19	08/16/24 14:56	1
Phosphorus as P (EPA 365.1)	**0.063**	**B**	0.050	0.024	mg/L		08/28/24 09:31	08/29/24 08:48	1
Alkalinity (SM 2320B)	**71**		5.0	3.7	mg/L			08/16/24 15:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**71**		5.0	3.7	mg/L			08/16/24 15:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			08/16/24 15:16	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			08/22/24 08:53	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254793-1

Client Sample ID: SMW-3_20240806
Date Collected: 08/06/24 13:00
Date Received: 08/08/24 09:55

Lab Sample ID: 500-254793-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	160		10	4.3	mg/L			08/13/24 02:13	1
Total Suspended Solids (SM 2540D)	19		5.0	1.9	mg/L			08/13/24 22:07	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			08/08/24 21:41	1
Total Organic Carbon (SM 5310C)	2.5		1.0	0.47	mg/L			08/20/24 00:59	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	2.4		1.0	0.47	mg/L			08/20/24 07:38	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254793-1

Client Sample ID: SMW-3_20240806_FBLL

Date Collected: 08/06/24 13:00
Date Received: 08/08/24 09:55

Lab Sample ID: 500-254793-2

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/12/24 16:38	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254793-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Analysis Batch: 2543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Dissolved	Water	1631E	
500-254793-1	SMW-3_20240806	Total/NA	Water	1631E	
500-254793-2	SMW-3_20240806_FBLL	Total/NA	Water	1631E	
MB 350-2543/16	Method Blank	Total/NA	Water	1631E	
MB 350-2543/17	Method Blank	Total/NA	Water	1631E	
MB 350-2543/18	Method Blank	Total/NA	Water	1631E	
MB 350-2543/24	Method Blank	Total/NA	Water	1631E	
MB 350-2543/25	Method Blank	Total/NA	Water	1631E	
MB 350-2543/26	Method Blank	Total/NA	Water	1631E	
MB 350-2543/61	Method Blank	Total/NA	Water	1631E	
LCS 350-2543/27	Lab Control Sample	Total/NA	Water	1631E	
LCS 350-2543/31	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2543/28	Lab Control Sample Dup	Total/NA	Water	1631E	
LCSD 350-2543/32	Lab Control Sample Dup	Total/NA	Water	1631E	

Prep Batch: 2559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Dissolved	Water	1638	
500-254793-1	SMW-3_20240806	Total Recoverable	Water	1638	
MB 350-2559/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2559/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2559/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2559/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Prep Batch: 2564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Dissolved	Water	1630	
500-254793-1	SMW-3_20240806	Total/NA	Water	1630	
MB 350-2564/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2564/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2564/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2564/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2564/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 2569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Dissolved	Water	1638	2559
500-254793-1	SMW-3_20240806	Total Recoverable	Water	1638	2559
MB 350-2559/1-A	Method Blank	Total Recoverable	Water	1638	2559
MB 350-2559/2-A	Method Blank	Total Recoverable	Water	1638	2559
LCS 350-2559/3-A	Lab Control Sample	Total Recoverable	Water	1638	2559
LCSD 350-2559/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2559

Analysis Batch: 2572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Dissolved	Water	1630	2564
500-254793-1	SMW-3_20240806	Total/NA	Water	1630	2564
MB 350-2564/1-A	Method Blank	Total/NA	Water	1630	2564
MB 350-2564/2-A	Method Blank	Total/NA	Water	1630	2564
MB 350-2564/3-A	Method Blank	Total/NA	Water	1630	2564
LCS 350-2564/4-A	Lab Control Sample	Total/NA	Water	1630	2564

Metals (Continued)

Analysis Batch: 2572 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 350-2564/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2564

Prep Batch: 781453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Dissolved	Water	3005A	
500-254793-1	SMW-3_20240806	Total Recoverable	Water	3005A	
MB 500-781453/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781453/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 782080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Dissolved	Water	6020B	781453
500-254793-1	SMW-3_20240806	Total Recoverable	Water	6020B	781453
MB 500-781453/1-A	Method Blank	Total Recoverable	Water	6020B	781453
LCS 500-781453/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781453

Analysis Batch: 782137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Total Recoverable	Water	SM 2340B	781453

Analysis Batch: 782199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Dissolved	Water	6020B	781453
500-254793-1	SMW-3_20240806	Total Recoverable	Water	6020B	781453
MB 500-781453/1-A	Method Blank	Total Recoverable	Water	6020B	781453
LCS 500-781453/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781453

General Chemistry

Analysis Batch: 780471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Total/NA	Water	300.0	
MB 500-780471/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780471/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Total/NA	Water	300.0	
MB 500-780472/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780472/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Total/NA	Water	SM 4500 S2 F	
MB 500-780591/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-780591/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 781031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Total/NA	Water	SM 2540C	
MB 500-781031/1	Method Blank	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 781031 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-781031/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 781227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Total/NA	Water	SM 2540D	
MB 500-781227/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-781227/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 781398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Total/NA	Water	Distill/CN	
MB 500-781398/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-781398/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 781653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Total/NA	Water	335.4	781398
MB 500-781398/1-A	Method Blank	Total/NA	Water	335.4	781398
LCS 500-781398/2-A	Lab Control Sample	Total/NA	Water	335.4	781398

Prep Batch: 781826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Total/NA	Water	Distill/Ammonia	
MB 500-781826/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-781826/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 781989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Total/NA	Water	SM 2320B	
MB 500-781989/2	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-781989/3	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 782272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Total/NA	Water	SM 5310C	
MB 500-782272/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-782272/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 782275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Dissolved	Water	SM 5310C	
MB 500-782275/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-782275/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 782356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Total/NA	Water	350.1	781826
MB 500-781826/1-A	Method Blank	Total/NA	Water	350.1	781826
LCS 500-781826/2-A	Lab Control Sample	Total/NA	Water	350.1	781826

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254793-1

General Chemistry

Analysis Batch: 782748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Total/NA	Water	SM 2520B	

Prep Batch: 783635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Total/NA	Water	365.2/365.3/365	
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 783821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254793-1	SMW-3_20240806	Total/NA	Water	365.1	783635
MB 500-783635/1-A	Method Blank	Total/NA	Water	365.1	783635
LCS 500-783635/2-A	Lab Control Sample	Total/NA	Water	365.1	783635

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2564/1-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 17:28	1

Lab Sample ID: MB 350-2564/2-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 17:39	1

Lab Sample ID: MB 350-2564/3-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		08/15/24 10:55	08/15/24 17:49	1

Lab Sample ID: LCS 350-2564/4-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	1.01		ng/L		101	65 - 135

Lab Sample ID: LCSD 350-2564/5-A
Matrix: Water
Analysis Batch: 2572

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2564

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.969		ng/L		97	65 - 135	5	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2543/16
Matrix: Water
Analysis Batch: 2543

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/12/24 10:57	1

Lab Sample ID: MB 350-2543/17
Matrix: Water
Analysis Batch: 2543

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/12/24 11:01	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2543/18
Matrix: Water
Analysis Batch: 2543

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/12/24 11:05	1

Lab Sample ID: MB 350-2543/24
Matrix: Water
Analysis Batch: 2543

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/12/24 11:30	1

Lab Sample ID: MB 350-2543/25
Matrix: Water
Analysis Batch: 2543

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/12/24 11:34	1

Lab Sample ID: MB 350-2543/26
Matrix: Water
Analysis Batch: 2543

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/12/24 11:38	1

Lab Sample ID: MB 350-2543/61
Matrix: Water
Analysis Batch: 2543

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			08/12/24 14:09	1

Lab Sample ID: LCS 350-2543/27
Matrix: Water
Analysis Batch: 2543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.36		ng/L		87	77 - 123

Lab Sample ID: LCS 350-2543/31
Matrix: Water
Analysis Batch: 2543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.37		ng/L		87	77 - 123

Lab Sample ID: LCSD 350-2543/28
Matrix: Water
Analysis Batch: 2543

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.25		ng/L		85	77 - 123	3	24

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: LCSD 350-2543/32
Matrix: Water
Analysis Batch: 2543

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			5.00	4.29		ng/L		86	77 - 123	2	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2559/1-A
Matrix: Water
Analysis Batch: 2569

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2559

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/14/24 17:10	08/15/24 11:29	1

Lab Sample ID: MB 350-2559/2-A
Matrix: Water
Analysis Batch: 2569

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2559

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.030	0.0098	ug/L		08/14/24 17:10	08/15/24 11:33	1

Lab Sample ID: LCS 350-2559/3-A
Matrix: Water
Analysis Batch: 2569

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2559

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium			25.0	21.7		ug/L		87	85 - 115		

Lab Sample ID: LCSD 350-2559/4-A
Matrix: Water
Analysis Batch: 2569

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2559

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium			25.0	22.2		ug/L		89	85 - 115	3	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781453/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		08/14/24 15:44	08/16/24 19:23	1
Antimony	<1.3		3.0	1.3	ug/L		08/14/24 15:44	08/16/24 19:23	1
Arsenic	<0.23		1.0	0.23	ug/L		08/14/24 15:44	08/16/24 19:23	1
Barium	<0.73		2.5	0.73	ug/L		08/14/24 15:44	08/16/24 19:23	1
Beryllium	<0.53		1.0	0.53	ug/L		08/14/24 15:44	08/16/24 19:23	1
Cadmium	<0.17		0.50	0.17	ug/L		08/14/24 15:44	08/16/24 19:23	1
Calcium	<44		200	44	ug/L		08/14/24 15:44	08/16/24 19:23	1
Chromium	<1.1		5.0	1.1	ug/L		08/14/24 15:44	08/16/24 19:23	1
Cobalt	<0.40		1.0	0.40	ug/L		08/14/24 15:44	08/16/24 19:23	1
Copper	<0.50		2.0	0.50	ug/L		08/14/24 15:44	08/16/24 19:23	1
Iron	<47		100	47	ug/L		08/14/24 15:44	08/16/24 19:23	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-781453/1-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.19	^1+	0.50	0.19	ug/L		08/14/24 15:44	08/16/24 19:23	1
Lithium	<2.5		10	2.5	ug/L		08/14/24 15:44	08/16/24 19:23	1
Magnesium	<49		200	49	ug/L		08/14/24 15:44	08/16/24 19:23	1
Manganese	<0.79		2.5	0.79	ug/L		08/14/24 15:44	08/16/24 19:23	1
Molybdenum	<2.5		5.0	2.5	ug/L		08/14/24 15:44	08/16/24 19:23	1
Nickel	<0.63		2.0	0.63	ug/L		08/14/24 15:44	08/16/24 19:23	1
Potassium	<110		500	110	ug/L		08/14/24 15:44	08/16/24 19:23	1
Selenium	<0.98		2.5	0.98	ug/L		08/14/24 15:44	08/16/24 19:23	1
Silver	<0.12		0.50	0.12	ug/L		08/14/24 15:44	08/16/24 19:23	1
Strontium	<0.64		4.0	0.64	ug/L		08/14/24 15:44	08/16/24 19:23	1
Thallium	<0.57		2.0	0.57	ug/L		08/14/24 15:44	08/16/24 19:23	1
Tin	<1.3		5.0	1.3	ug/L		08/14/24 15:44	08/16/24 19:23	1
Vanadium	<2.2		5.0	2.2	ug/L		08/14/24 15:44	08/16/24 19:23	1
Zinc	<6.9		20	6.9	ug/L		08/14/24 15:44	08/16/24 19:23	1

Lab Sample ID: MB 500-781453/1-A
Matrix: Water
Analysis Batch: 782199

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	45.9	J	50	13	ug/L		08/14/24 15:44	08/19/24 12:47	1
Sodium	<77		200	77	ug/L		08/14/24 15:44	08/19/24 12:47	1

Lab Sample ID: LCS 500-781453/2-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2130		ug/L		107	80 - 120
Antimony	500	533		ug/L		107	80 - 120
Arsenic	100	99.6		ug/L		100	80 - 120
Barium	500	559		ug/L		112	80 - 120
Beryllium	50.0	48.2		ug/L		96	80 - 120
Cadmium	50.0	52.5		ug/L		105	80 - 120
Calcium	10000	9100		ug/L		91	80 - 120
Chromium	200	207		ug/L		104	80 - 120
Cobalt	500	528		ug/L		106	80 - 120
Copper	250	268		ug/L		107	80 - 120
Iron	1000	1070		ug/L		107	80 - 120
Lead	100	110	^1+	ug/L		110	80 - 120
Lithium	100	102		ug/L		102	80 - 120
Magnesium	10000	10900		ug/L		109	80 - 120
Manganese	500	532		ug/L		106	80 - 120
Molybdenum	1000	1010		ug/L		101	80 - 120
Nickel	500	537		ug/L		107	80 - 120
Potassium	10000	11000		ug/L		110	80 - 120
Selenium	100	101		ug/L		101	80 - 120
Silver	50.0	52.1		ug/L		104	80 - 120
Strontium	1000	1080		ug/L		108	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-781453/2-A
Matrix: Water
Analysis Batch: 782080

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	100	107		ug/L		107	80 - 120
Tin	1000	1070		ug/L		107	80 - 120
Vanadium	500	521		ug/L		104	80 - 120
Zinc	500	526		ug/L		105	80 - 120

Lab Sample ID: LCS 500-781453/2-A
Matrix: Water
Analysis Batch: 782199

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	1070		ug/L		107	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-780471/3
Matrix: Water
Analysis Batch: 780471

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			08/08/24 10:39	1
Chloride	<0.12		1.0	0.12	mg/L			08/08/24 10:39	1
Fluoride	<0.19		1.0	0.19	mg/L			08/08/24 10:39	1
Sulfate	<0.21		1.0	0.21	mg/L			08/08/24 10:39	1

Lab Sample ID: LCS 500-780471/4
Matrix: Water
Analysis Batch: 780471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	18.8		mg/L		94	90 - 110
Chloride	20.0	19.3		mg/L		97	90 - 110
Fluoride	20.0	20.1		mg/L		100	90 - 110
Sulfate	20.0	20.5		mg/L		102	90 - 110

Lab Sample ID: MB 500-780472/3
Matrix: Water
Analysis Batch: 780472

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			08/08/24 10:39	1
Nitrite as N	<0.070		1.0	0.070	mg/L			08/08/24 10:39	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			08/08/24 10:39	1

Lab Sample ID: LCS 500-780472/4
Matrix: Water
Analysis Batch: 780472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	20.1		mg/L		101	90 - 110
Nitrite as N	20.0	20.1		mg/L		100	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-780472/4
Matrix: Water
Analysis Batch: 780472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	40.0	40.2		mg/L		101	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-781398/1-A
Matrix: Water
Analysis Batch: 781653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		08/14/24 12:27	08/15/24 12:03	1

Lab Sample ID: LCS 500-781398/2-A
Matrix: Water
Analysis Batch: 781653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0896		mg/L		90	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-781826/1-A
Matrix: Water
Analysis Batch: 782356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		08/16/24 11:19	08/16/24 14:49	1

Lab Sample ID: LCS 500-781826/2-A
Matrix: Water
Analysis Batch: 782356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 781826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.95		mg/L		97	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-783635/1-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 783635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	0.0260	J	0.050	0.024	mg/L		08/28/24 09:30	08/29/24 08:37	1

Lab Sample ID: LCS 500-783635/2-A
Matrix: Water
Analysis Batch: 783821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 783635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.918		mg/L		92	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-781989/2
Matrix: Water
Analysis Batch: 781989

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			08/16/24 14:28	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/16/24 14:28	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			08/16/24 14:28	1

Lab Sample ID: LCS 500-781989/3
Matrix: Water
Analysis Batch: 781989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	98.8		mg/L		99	95 - 121

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-781031/1
Matrix: Water
Analysis Batch: 781031

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			08/13/24 01:55	1

Lab Sample ID: LCS 500-781031/2
Matrix: Water
Analysis Batch: 781031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	226		mg/L		90	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-781227/1
Matrix: Water
Analysis Batch: 781227

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			08/13/24 21:15	1

Lab Sample ID: LCS 500-781227/2
Matrix: Water
Analysis Batch: 781227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	194		mg/L		97	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-780591/1
Matrix: Water
Analysis Batch: 780591

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			08/08/24 20:38	1

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: LCS 500-780591/2
Matrix: Water
Analysis Batch: 780591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			3.64	3.52		mg/L		97	85 - 115		

Method: SM 5310C - TOC

Lab Sample ID: MB 500-782272/7
Matrix: Water
Analysis Batch: 782272

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			08/19/24 18:54	1

Lab Sample ID: LCS 500-782272/8
Matrix: Water
Analysis Batch: 782272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			10.0	9.42		mg/L		94	86 - 116		

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-782275/7
Matrix: Water
Analysis Batch: 782275

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			08/20/24 07:38	1

Lab Sample ID: LCS 500-782275/8
Matrix: Water
Analysis Batch: 782275

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Dissolved Organic Carbon			10.0	9.42		mg/L		94	86 - 116		

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254793-1

Client Sample ID: SMW-3_20240806

Date Collected: 08/06/24 13:00
Date Received: 08/08/24 09:55

Lab Sample ID: 500-254793-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2564	AJD	EET SSM	08/15/24 10:55
Dissolved	Analysis	1630		1	2572	CL	EET SSM	08/15/24 19:41
Total/NA	Prep	1630			2564	AJD	EET SSM	08/15/24 10:55
Total/NA	Analysis	1630		1	2572	CL	EET SSM	08/15/24 19:31
Dissolved	Analysis	1631E		1	2543	AJD	EET SSM	08/12/24 16:34
Total/NA	Analysis	1631E		1	2543	AJD	EET SSM	08/12/24 14:00
Dissolved	Prep	1638			2559	V1R	EET SSM	08/14/24 17:10
Dissolved	Analysis	1638		1	2569	V1R	EET SSM	08/15/24 12:53
Total Recoverable	Prep	1638			2559	V1R	EET SSM	08/14/24 17:10
Total Recoverable	Analysis	1638		1	2569	V1R	EET SSM	08/15/24 12:56
Dissolved	Prep	3005A			781453	S1Z	EET CHI	08/14/24 15:44 - 08/14/24 21:45 [1]
Dissolved	Analysis	6020B		1	782080	RN	EET CHI	08/16/24 20:06
Dissolved	Prep	3005A			781453	S1Z	EET CHI	08/14/24 15:44 - 08/14/24 21:45 [1]
Dissolved	Analysis	6020B		1	782199	RN	EET CHI	08/19/24 13:30
Total Recoverable	Prep	3005A			781453	S1Z	EET CHI	08/14/24 15:44 - 08/14/24 21:45 [1]
Total Recoverable	Analysis	6020B		1	782080	RN	EET CHI	08/16/24 20:12
Total Recoverable	Prep	3005A			781453	S1Z	EET CHI	08/14/24 15:44 - 08/14/24 21:45 [1]
Total Recoverable	Analysis	6020B		1	782199	RN	EET CHI	08/19/24 13:37
Total Recoverable	Prep	3005A			781453	S1Z	EET CHI	08/14/24 15:44 - 08/14/24 21:45 [1]
Total Recoverable	Analysis	SM 2340B		1	782137	DAJ	EET CHI	08/19/24 09:57
Total/NA	Analysis	300.0		1	780471	W1T	EET CHI	08/08/24 11:40
Total/NA	Analysis	300.0		1	780472	W1T	EET CHI	08/08/24 11:40
Total/NA	Prep	Distill/CN			781398	AC	EET CHI	08/14/24 12:27 - 08/14/24 12:57 [1]
Total/NA	Analysis	335.4		1	781653	AC	EET CHI	08/15/24 12:44
Total/NA	Prep	Distill/Ammonia			781826	EB	EET CHI	08/16/24 11:19 - 08/16/24 12:19 [1]
Total/NA	Analysis	350.1		1	782356	KF	EET CHI	08/16/24 14:56
Total/NA	Prep	365.2/365.3/365			783635	ER	EET CHI	08/28/24 09:31 - 08/28/24 13:22 [1]
Total/NA	Analysis	365.1		1	783821	KF	EET CHI	08/29/24 08:48
Total/NA	Analysis	SM 2320B		1	781989	ER	EET CHI	08/16/24 15:16
Total/NA	Analysis	SM 2520B		1	782748	TR	EET CHI	08/22/24 08:53
Total/NA	Analysis	SM 2540C		1	781031	CLB	EET CHI	08/13/24 02:13
Total/NA	Analysis	SM 2540D		1	781227	PFK	EET CHI	08/13/24 22:07 - 08/13/24 22:09 [1]
Total/NA	Analysis	SM 4500 S2 F		1	780591	CLB	EET CHI	08/08/24 21:41 - 08/08/24 21:45 [1]
Dissolved	Analysis	SM 5310C		1	782275	TR	EET CHI	08/20/24 07:38
Total/NA	Analysis	SM 5310C		1	782272	TR	EET CHI	08/20/24 00:59

Client Sample ID: SMW-3_20240806_FBLL

Date Collected: 08/06/24 13:00
Date Received: 08/08/24 09:55

Lab Sample ID: 500-254793-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2543	AJD	EET SSM	08/12/24 16:38

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254793-1

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-254793-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	11662	12-18-24
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Maddy Strong	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 4210	COC No: 500-126351-50241 96
Client Contact: Amanda Zeidler	Phone: 715 587 4659	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-254793
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A - HCL

Other: 500-254793 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
1 SMW-[illegible]_20240806	8/6/24	1300	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	19	
2 SMW-3_20240806_FBLL	8/6/24	1300	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/7/24 1600	MSG	4051 7962 4210	8/7/24 1600	Fedex
2	Relinquished by:	Date/Time	Company	Received by: Stephanie Hernandez	Date/Time: 8/8/24 0955	Company: EEA
3	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 5.3+5.2

Sandra Fredrick

From: Amanda Zeidler <AZeidler@whitepinecu.com>
Sent: Thursday, August 8, 2024 4:11 PM
To: Sandra Fredrick
Cc: Glander, Nick
Subject: RE: ISSUE ON ARRIVAL - 500-254793 White Pines, MI Sample Confirmation files from Eurofins North Central
Attachments: Std_Tal_Login_Ack_ChkLst_Lmt for 500-254793-1.pdf; COC 500-254793 (202408081203).pdf

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Sandie,

I checked with Foth and we would like to go ahead and split with the methyl mercury sample so we can get a total low level mercury result for SMW-3. I understand that we won't have batch QC and the results will be flagged.

Thank you,
Amanda

Amanda Zeidler
White Pine Copper LLC.
Senior Director, Environment
Cell: 1-906-204-6500
Email: azeidler@whitepinecu.com

From: Sandra Fredrick <Sandra.Fredrick@et.eurofinsus.com>
Sent: Thursday, August 8, 2024 4:58 PM
To: Amanda Zeidler <AZeidler@whitepinecu.com>
Subject: RE: ISSUE ON ARRIVAL - 500-254793 White Pines, MI Sample Confirmation files from Eurofins North Central

From the lab… Thoughts? How would you like us to proceed?
Thanks
Sandie

If the methylmercury container is preserved with HCl, we can split. We would not be able to use the methylmercury sample for batch QC though.

We are thankful for your business and hope that you have a wonderful day!

Sandie Fredrick
Project Manager
Eurofins Chicago
2417 Bond Street
University Park, IL 60484 USA
Phone: 920-261-1660
E-mail: Sandra.Fredrick@ET.EurofinsUS.com

From: Amanda Zeidler <AZeidler@whitepinecu.com>
Sent: Thursday, August 8, 2024 3:44 PM
To: Sandra Fredrick <Sandra.Fredrick@et.eurofinsus.com>
Subject: RE: ISSUE ON ARRIVAL - 500-254793 White Pines, MI Sample Confirmation files from Eurofins North Central

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Thanks for letting me know about the LL mercury. I assume that we can't pull that from another bottle (maybe methyl mercury)?

Amanda Zeidler
White Pine Copper LLC.
Senior Director, Environment
Cell: 1-906-204-6500
Email: azeidler@whitepinecu.com

From: Sandie Fredrick <TALS@reports.et.eurofinsus.com>
Sent: Thursday, August 8, 2024 4:00 PM
To: Amanda Zeidler <AZeidler@whitepinecu.com>; Nick Glander <Nick.Glander@foth.com>
Subject: ISSUE ON ARRIVAL - 500-254793 White Pines, MI Sample Confirmation files from Eurofins North Central

Hello Amanda,

Affected Item(s): Sample: 500-254793-1 SMW-3_20240806

Narrative: Sample #1- both vials in total LL Hg Kit received broken. Analysis canceled.

Attached, please find the Sample Confirmation files for job 500-254793; White Pines, MI

Please review the attachments for accuracy and notify your Project Manager of any discrepancies as quickly as possible.

Any discrepancies not communicated in a timely fashion could result in missed holding times, TAT delays and may potentially incur additional charges.

Please feel free to contact me if you have any questions.

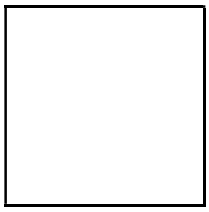
Thank you.

Sandie Fredrick
Project Manager

Eurofins Chicago
Phone: 920-261-1660

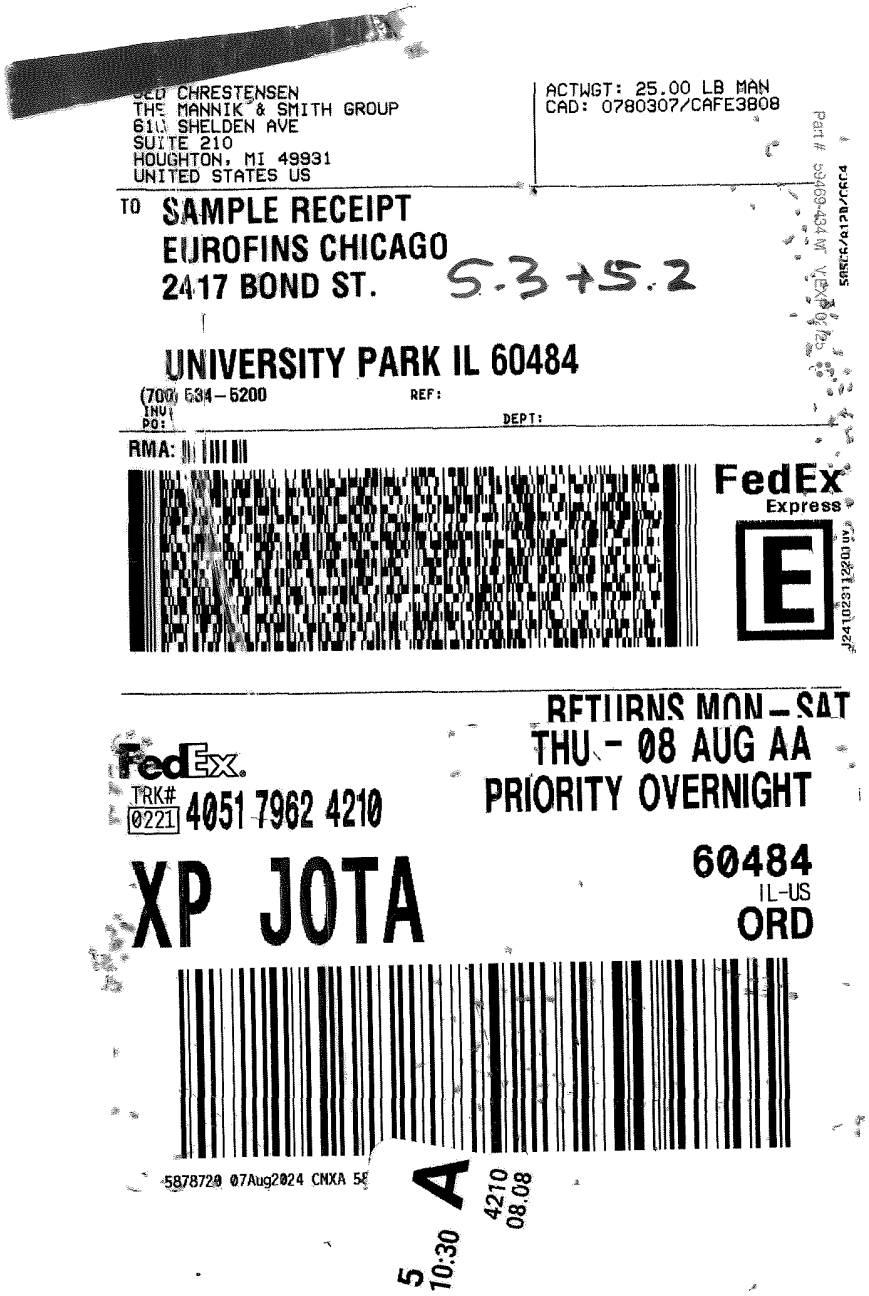
E-mail: Sandra.Fredrick@et.eurofinsus.com
www.eurofinsus.com/env

Reference: [500-797085]
Attachments: 2



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500-254793 Waybi

48qt

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254793-1

Login Number: 254793
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Containers received broken. No volume could be salvaged for analysis.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-254793-1

Login Number: 254793
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 08/09/24 01:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-254793 Field Sheet

Date:	8/9/2024
End Time:	1415
KI Paper Lot:	na
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	19630
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
500-254793-t-1	A	Y	.8 2	
500-254793-a-2	A	Y	.8 2	N
500-254793-b-2	A	Y	.8 2	8/12h
500-254793-c-1	A	Y	.4 2	
500-254793-d-1	A	Y	.8 2	

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500-254793 Field Sheet

Date:	8/9/2024
End Time:	14:10
pH Paper Lot:	HC324723
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	
A	Nitric Acid	NO
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-254793-E-1	≤2				
500-254793-F-1	≤2			N	
500-254793-K-1	≤2			S/N	
500-254793-J-1	≤2				

Groundwater and Surface Water Analytical Reports

Eurofins Chicago

October & November 2024

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 10/15/2024 10:15:34 AM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-257245-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



Generated
10/15/2024 10:15:34 AM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-257245-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/25/2024 9:45 AM, 9/26/2024 10:30 AM and 9/27/2024 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 23 coolers at receipt time were 0.7°C, 0.8°C, 0.8°C, 0.9°C, 1.0°C, 1.3°C, 1.3°C, 1.3°C, 1.6°C, 1.6°C, 1.6°C, 1.7°C, 2.0°C, 2.2°C, 2.4°C, 2.5°C, 2.7°C, 2.8°C, 3.2°C, 4.0°C, 4.0°C, 4.2°C and 4.4°C.

Receipt Exceptions
The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: ARC-02_20240925 (500-257245-35).

Broke 1 1631 vial in login for sample 37.

Received 1 1631 Dissolved vial broken.

The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: ARC-03_20240926 (500-257245-25), CBR-01_20240925 (500-257245-27), DKC-03_20240926 (500-257245-29) and ARC-01_20240925 (500-257245-31).

Metals
Method 1631E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 350-2922 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 1631E: The continuing calibration verification (CCV) associated with batch 350-2975 recovered outside acceptance criteria, low biased (73%), for Mercury. As no additional sample volume remained for re-analysis, results have been reported and appropriately qualified.

Method 1631E - Dissolved: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 350-2922 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 1631E - Dissolved: Elevated reporting limits are provided for the following sample due to insufficient sample provided for analysis: PNC-01_20240923 (500-257245-1).

Method 1631E - Dissolved: The continuing calibration verification (CCV) associated with batch 350-2975 recovered outside acceptance criteria, low biased (73%), for Mercury. As no additional sample volume remained for re-analysis, results have been reported and appropriately qualified.

Method 1638 - Dissolved: The continuing calibration blank (CCB) for analytical batch 350-2943 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 1638 - Dissolved: The continuing calibration blank (CCB) for analytical batch 350-2993 contained Uranium above the

reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 1638 - Total Recoverable: The continuing calibration blank (CCB) for analytical batch 350-2943 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 1638 - Total Recoverable: The continuing calibration blank (CCB) for analytical batch 350-2993 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6020B - Dissolved: The initial low level calibration verification (ICVL) result for batch 500-789324 was above the upper control limit. The affected analytes are: Antimony and Beryllium. Sample results were below the reporting limit, and have been reported as qualified data.

Method 6020B - Dissolved: The initial low level calibration verification (ICVL) result for batch 500-789512 was above the upper control limit. The affected analytes are: Antimony and Beryllium. Sample results were below reporting limits, and have been reported as qualified data.

Method 6020B - Total Recoverable: The initial low level calibration verification (ICVL) result for batch 500-789324 was above the upper control limit. The affected analytes are: Antimony and Beryllium. Sample results were below the reporting limit, and have been reported as qualified data.

Method 6020B - Total Recoverable: The initial low level calibration verification (ICVL) result for batch 500-789512 was above the upper control limit. The affected analytes are: Antimony and Beryllium. Sample results were below reporting limits, and have been reported as qualified data.

Method 6020B - Total Recoverable: The initial low level calibration verification (ICVL) result for batch 500-789615 was above the upper control limit. The affected analytes are: Antimony. Sample results were below the reporting limit, and have been reported as qualified data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 2320B: The method blank for analytical batch 500-789442 contained Alkalinity, Bicarbonate Alkalinity as CaCO3 and Carbonate Alkalinity as CaCO3 above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 300.0_28D: The method blank for analytical batch 500-787648 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0_28D: The method blank for analytical batch 500-787874 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0_28D: The method blank for analytical batch 500-788071 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300_48HR: The following sample was received outside of holding time: DUP-01-SW_20240923 (500-257245-3).

Method 300_48HR: The following samples were received outside of holding time: SBW-01_20240924 (500-257245-13), SBD-01_20240924 (500-257245-15), SBD-01_20240924 (500-257245-15[MS]) and SBD-01_20240924 (500-257245-15[MSD]).

Method 300_48HR: The following sample was received outside of holding time: CBR-01_20240925 (500-257245-27).

Method 300_48HR: The following sample(s) was analyzed outside of analytical holding time. <EXPLANATION_REQUIRED>: ARC-01_20240925 (500-257245-31) and ARC-02_20240925 (500-257245-35).

Job ID: 500-257245-1 (Continued) Eurofins Chicago

Method 335.4: The method blank for preparation batch 500-789241 contained Cyanide, Total above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 335.4: Initial Calibration Verification (ICV) and Initial Calibration Blank (ICB) were accidentally swapped on the instrument autosampler. Both QC's meet acceptance criteria. The data has been qualified and reported.

(ICB 500-789387/10) and (ICV 500-789241/27-A)

Method 350.1: The matrix spike duplicate (MSD) recoveries for preparation batch 500-788753 and analytical batch 500-788918 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 5310C: Calibration expired after this point QC is still in acceptable range, therefore results are being reported.

ARC-03_20240926 (500-257245-25), ARC-02_20240925 (500-257245-35), MW-43_20240925 (500-257245-37), MW-44_20240925 (500-257245-39), DKC-02_20240925 (500-257245-41), (CCB 500-789903/30) and (CCV 500-789903/29)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-01_20240923

Lab Sample ID: 500-257245-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.14		0.050	0.022	ng/L	1		1630	Total/NA
Methyl Mercury	0.086		0.050	0.022	ng/L	1		1630	Dissolved
Mercury	0.88		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	2.2	J	5.0	2.0	ng/L	10		1631E	Dissolved
Uranium	0.083		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.081		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	49	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.78	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	66		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	36	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	45000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	1.0		1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	2.6		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	8400		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	8400		200	49	ug/L	1		6020B	Total Recoverable
Manganese	1700	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	2000		500	110	ug/L	1		6020B	Total Recoverable
Sodium	3400		200	77	ug/L	1		6020B	Total Recoverable
Strontium	85		4.0	0.64	ug/L	1		6020B	Total Recoverable
Tin	1.8	J	5.0	1.3	ug/L	1		6020B	Total Recoverable
Arsenic	0.36	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	49		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	39	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	41000		200	44	ug/L	1		6020B	Dissolved
Cobalt	0.75	J	1.0	0.40	ug/L	1		6020B	Dissolved
Copper	1.4	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	570		100	47	ug/L	1		6020B	Dissolved
Magnesium	7900		200	49	ug/L	1		6020B	Dissolved
Manganese	1400		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1900		500	110	ug/L	1		6020B	Dissolved
Sodium	3200		200	77	ug/L	1		6020B	Dissolved
Strontium	77		4.0	0.64	ug/L	1		6020B	Dissolved
Tin	1.8	J	5.0	1.3	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	150		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	7.8	B	1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	0.53	J	1.0	0.21	mg/L	1		300.0	Total/NA
Ammonia	0.12	J	0.20	0.10	mg/L	1		350.1	Total/NA
Phosphorus as P	0.049	J	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	130		5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PNC-01_20240923 (Continued) — Lab Sample ID: 500-257245-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO3	130		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	240		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	19		13	4.8	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	12		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	10		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: PNC-01_20240923_FBLL — Lab Sample ID: 500-257245-2

No Detections.

Client Sample ID: DUP-01-SW_20240923 — Lab Sample ID: 500-257245-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.038	J	0.050	0.022	ng/L	1		1630	Total/NA
Methyl Mercury	0.056		0.050	0.022	ng/L	1		1630	Dissolved
Mercury	0.78		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.93		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.095		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.094		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	160		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.72	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	84		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	100	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	26000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	0.42	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	4.5		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	1100		100	47	ug/L	1		6020B	Total Recoverable
Lithium	5.2	J	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	4600		200	49	ug/L	1		6020B	Total Recoverable
Manganese	910	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	2.8	J	5.0	2.5	ug/L	1		6020B	Total Recoverable
Nickel	0.77	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	2200		500	110	ug/L	1		6020B	Total Recoverable
Sodium	8800		200	77	ug/L	1		6020B	Total Recoverable
Strontium	200		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.62	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	80		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	100	B	50	13	ug/L	1		6020B	Dissolved
Calcium	26000		200	44	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-01-SW_20240923 (Continued) — Lab Sample ID: 500-257245-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.6	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	710		100	47	ug/L	1		6020B	Dissolved
Lithium	5.2	J	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	4500		200	49	ug/L	1		6020B	Dissolved
Manganese	890		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	2.7	J	5.0	2.5	ug/L	1		6020B	Dissolved
Nickel	0.63	J	2.0	0.63	ug/L	1		6020B	Dissolved
Potassium	2100		500	110	ug/L	1		6020B	Dissolved
Sodium	8600		200	77	ug/L	1		6020B	Dissolved
Strontium	190		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	85		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.28	J	1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	11	B	1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	0.75	J	1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.030	J	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	87		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	87		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	140		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	6.8		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	11		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	11		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: DUP-01-SW_20240923_FBLL — Lab Sample ID: 500-257245-4

No Detections.

Client Sample ID: PRC-02_20240923 — Lab Sample ID: 500-257245-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.040	J	0.050	0.022	ng/L	1		1630	Total/NA
Mercury	0.27	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.34	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.43		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.43		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	120		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.46	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	150		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	390	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	92000		200	44	ug/L	1		6020B	Total Recoverable
Copper	9.0		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	170		100	47	ug/L	1		6020B	Total Recoverable
Lithium	36		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	13000		200	49	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: PRC-02_20240923 (Continued) — Lab Sample ID: 500-257245-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	100	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	19		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	5400		500	110	ug/L	1		6020B	Total Recoverable
Sodium	88000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	1000		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.44	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	140		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	370	B	50	13	ug/L	1		6020B	Dissolved
Calcium	90000		200	44	ug/L	1		6020B	Dissolved
Copper	5.8		2.0	0.50	ug/L	1		6020B	Dissolved
Lithium	35		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	13000		200	49	ug/L	1		6020B	Dissolved
Manganese	43		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	19		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	5400		500	110	ug/L	1		6020B	Dissolved
Sodium	88000		200	77	ug/L	1		6020B	Dissolved
Strontium	1000		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	280		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	2.1		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	220		10	1.2	mg/L	10		300.0	Total/NA
Fluoride	0.96	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	17		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	110		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	110		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	680		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	5.2		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	5.4		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	5.6		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: PRC-02_20240923_FBLL — Lab Sample ID: 500-257245-6

No Detections.

Client Sample ID: MLR-03_20240923 — Lab Sample ID: 500-257245-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.54		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.65		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.26		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.27		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	46	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.49	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	45		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	51	B	50	13	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MLR-03_20240923 (Continued) — Lab Sample ID: 500-257245-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	34000		200	44	ug/L	1		6020B	Total Recoverable
Copper	29		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	62	J	100	47	ug/L	1		6020B	Total Recoverable
Magnesium	6900		200	49	ug/L	1		6020B	Total Recoverable
Manganese	5.3	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1700		500	110	ug/L	1		6020B	Total Recoverable
Sodium	11000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	86		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.47	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	43		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	50	B	50	13	ug/L	1		6020B	Dissolved
Calcium	33000		200	44	ug/L	1		6020B	Dissolved
Copper	26		2.0	0.50	ug/L	1		6020B	Dissolved
Magnesium	6700		200	49	ug/L	1		6020B	Dissolved
Manganese	2.6		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1600		500	110	ug/L	1		6020B	Dissolved
Sodium	11000		200	77	ug/L	1		6020B	Dissolved
Strontium	84		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	110		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	13	B	1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	3.0		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	110		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	110		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	150		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	2.6	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	9.9		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	10		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MLR-03_20240923_FBLL — Lab Sample ID: 500-257245-8

No Detections.

Client Sample ID: NTC-01_20240923 — Lab Sample ID: 500-257245-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.025	J B	0.050	0.022	ng/L	1		1630	Dissolved
Mercury	0.73		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.68		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.12		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.075		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	100		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.73	J	1.0	0.23	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: NTC-01_20240923 (Continued)

Lab Sample ID: 500-257245-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	82		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	100	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	27000		200	44	ug/L	1		6020B	Total Recoverable
Copper	3.5		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	1100		100	47	ug/L	1		6020B	Total Recoverable
Lithium	5.0	J	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	4700		200	49	ug/L	1		6020B	Total Recoverable
Manganese	910	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	2.8	J	5.0	2.5	ug/L	1		6020B	Total Recoverable
Nickel	0.77	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	2200		500	110	ug/L	1		6020B	Total Recoverable
Sodium	9000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	200		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.57	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	80		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	100	B	50	13	ug/L	1		6020B	Dissolved
Calcium	26000		200	44	ug/L	1		6020B	Dissolved
Copper	2.2		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	620		100	47	ug/L	1		6020B	Dissolved
Lithium	4.9	J	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	4600		200	49	ug/L	1		6020B	Dissolved
Manganese	860		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	2.6	J	5.0	2.5	ug/L	1		6020B	Dissolved
Nickel	0.64	J	2.0	0.63	ug/L	1		6020B	Dissolved
Potassium	2100		500	110	ug/L	1		6020B	Dissolved
Sodium	8800		200	77	ug/L	1		6020B	Dissolved
Strontium	200		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	87		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.25	J	1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	11	B	1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	0.75	J	1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.033	J	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	85		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	85		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	110		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	6.0		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	11		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	11		1.0	0.47	mg/L	1		SM 5310C	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: NTC-01_20240923_FBLL — Lab Sample ID: 500-257245-10

No Detections.

Client Sample ID: MLR-01_20240923 — Lab Sample ID: 500-257245-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.089	B	0.050	0.022	ng/L	1		1630	Total/NA
Methyl Mercury	0.078	B	0.050	0.022	ng/L	1		1630	Dissolved
Mercury	0.96		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.96		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.57		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.56		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	130		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.46	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	38		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	51	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	23000		200	44	ug/L	1		6020B	Total Recoverable
Copper	2.7		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	390		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	6500		200	49	ug/L	1		6020B	Total Recoverable
Manganese	35	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Nickel	0.68	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	1600		500	110	ug/L	1		6020B	Total Recoverable
Sodium	4500		200	77	ug/L	1		6020B	Total Recoverable
Strontium	86		4.0	0.64	ug/L	1		6020B	Total Recoverable
Zinc	80		20	6.9	ug/L	1		6020B	Total Recoverable
Aluminum	28	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.44	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	33		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	46	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	23000		200	44	ug/L	1		6020B	Dissolved
Copper	2.7		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	220		100	47	ug/L	1		6020B	Dissolved
Magnesium	6200		200	49	ug/L	1		6020B	Dissolved
Manganese	22		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1600		500	110	ug/L	1		6020B	Dissolved
Sodium	4000		200	77	ug/L	1		6020B	Dissolved
Strontium	79		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	85		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Nitrate as N	0.45	J	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	1.6	B	1.0	0.12	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.45	J	1.0	0.070	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MLR-01_20240923 (Continued) — Lab Sample ID: 500-257245-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	0.94	J	1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	87	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	87	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	92		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	2.0	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	11		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	13		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MLR-01_20240923_FBLL — Lab Sample ID: 500-257245-12

No Detections.

Client Sample ID: SBW-01_20240924 — Lab Sample ID: 500-257245-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Uranium	0.013	J	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.014	J	0.050	0.0098	ug/L	1		1638	Dissolved
Arsenic	0.52	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	31		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	34	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	25000		200	44	ug/L	1		6020B	Total Recoverable
Copper	3.9		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	180		100	47	ug/L	1		6020B	Total Recoverable
Lithium	2.9	J	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	6400		200	49	ug/L	1		6020B	Total Recoverable
Manganese	24	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	570		500	110	ug/L	1		6020B	Total Recoverable
Sodium	3500		200	77	ug/L	1		6020B	Total Recoverable
Strontium	70		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.52	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	30		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	32	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	25000		200	44	ug/L	1		6020B	Dissolved
Copper	3.4		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	56	J	100	47	ug/L	1		6020B	Dissolved
Lithium	2.9	J	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	6400		200	49	ug/L	1		6020B	Dissolved
Manganese	3.0		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	570		500	110	ug/L	1		6020B	Dissolved
Sodium	3500		200	77	ug/L	1		6020B	Dissolved
Strontium	70		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	89		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: SBW-01_20240924 (Continued) — Lab Sample ID: 500-257245-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.68	J B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.48	J	1.0	0.19	mg/L	1		300.0	Total/NA
Alkalinity	97	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	97	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.33		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	86		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	7.4		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	9.3		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: SBW-01_20240924_FBLL — Lab Sample ID: 500-257245-14

No Detections.

Client Sample ID: SBD-01_20240924 — Lab Sample ID: 500-257245-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	3.4	F1	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.34	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.064		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.050		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	280		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.54	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	39		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	52	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	35000		200	44	ug/L	1		6020B	Total Recoverable
Copper	1.0	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	960		100	47	ug/L	1		6020B	Total Recoverable
Lithium	7.2	J	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	6600		200	49	ug/L	1		6020B	Total Recoverable
Manganese	72	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1100		500	110	ug/L	1		6020B	Total Recoverable
Sodium	5300		200	77	ug/L	1		6020B	Total Recoverable
Strontium	170		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.43	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	35		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	54	B	50	13	ug/L	1		6020B	Dissolved
Calcium	35000		200	44	ug/L	1		6020B	Dissolved
Iron	78	J	100	47	ug/L	1		6020B	Dissolved
Lithium	7.3	J	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	6300		200	49	ug/L	1		6020B	Dissolved
Manganese	32		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	960		500	110	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: SBD-01_20240924 (Continued) — Lab Sample ID: 500-257245-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	5100		200	77	ug/L	1		6020B	Dissolved
Strontium	170		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	110		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	5.4	B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.51	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	0.25	J	1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.027	J	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	110	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	110	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	130		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	9.4		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	12		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	12		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: SBD-01_20240924-FBLL — Lab Sample ID: 500-257245-16

No Detections.

Client Sample ID: PNC-02_20240924 — Lab Sample ID: 500-257245-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.36	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.37	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.24		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.24		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	42	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.54	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	91		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	57	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	47000		200	44	ug/L	1		6020B	Total Recoverable
Copper	4.5		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	590		100	47	ug/L	1		6020B	Total Recoverable
Lithium	4.1	J	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	11000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	260	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1500		500	110	ug/L	1		6020B	Total Recoverable
Sodium	8900		200	77	ug/L	1		6020B	Total Recoverable
Strontium	280		4.0	0.64	ug/L	1		6020B	Total Recoverable
Tin	2.3	J	5.0	1.3	ug/L	1		6020B	Total Recoverable
Arsenic	0.51	J	1.0	0.23	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: PNC-02_20240924 (Continued) — Lab Sample ID: 500-257245-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	89		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	56	B	50	13	ug/L	1		6020B	Dissolved
Calcium	46000		200	44	ug/L	1		6020B	Dissolved
Copper	4.4		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	260		100	47	ug/L	1		6020B	Dissolved
Lithium	3.7	J	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	11000		200	49	ug/L	1		6020B	Dissolved
Manganese	190		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1500		500	110	ug/L	1		6020B	Dissolved
Sodium	8900		200	77	ug/L	1		6020B	Dissolved
Strontium	290		4.0	0.64	ug/L	1		6020B	Dissolved
Tin	2.1	J	5.0	1.3	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	160		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.38	J	1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	26	B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.48	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	0.32	J	1.0	0.21	mg/L	1		300.0	Total/NA
Cyanide, Total	0.0050		0.0050	0.0036	mg/L	1		335.4	Total/NA
Phosphorus as P	0.031	J	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	130	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	130	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	210		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	3.8	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	13		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	14		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: PNC-02_20240924-FBLL — Lab Sample ID: 500-257245-18

No Detections.

Client Sample ID: MLR-02_20240924 — Lab Sample ID: 500-257245-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.61		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.59		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.27		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.27		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	70	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.49	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	42		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	54	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	34000		200	44	ug/L	1		6020B	Total Recoverable
Copper	30		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	160		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	6800		200	49	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MLR-02_20240924 (Continued) — Lab Sample ID: 500-257245-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	16	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1700		500	110	ug/L	1		6020B	Total Recoverable
Sodium	12000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	80		4.0	0.64	ug/L	1		6020B	Total Recoverable
Aluminum	40	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.49	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	42		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	47	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	34000		200	44	ug/L	1		6020B	Dissolved
Copper	29		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	110		100	47	ug/L	1		6020B	Dissolved
Magnesium	6700		200	49	ug/L	1		6020B	Dissolved
Manganese	14		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1600		500	110	ug/L	1		6020B	Dissolved
Sodium	12000		200	77	ug/L	1		6020B	Dissolved
Strontium	81		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	110		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	15	B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.47	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	2.6		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	110	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	110	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	160		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	8.6		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	9.4		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MLR-02_20240924-FBLL — Lab Sample ID: 500-257245-20

No Detections.

Client Sample ID: PRC-01_20240924 — Lab Sample ID: 500-257245-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.27	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.28	J ^-	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.28		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.28		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	61	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.81	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	160		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	410	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	88000		200	44	ug/L	1		6020B	Total Recoverable
Copper	4.4		2.0	0.50	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: PRC-01_20240924 (Continued) — Lab Sample ID: 500-257245-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	980		100	47	ug/L	1		6020B	Total Recoverable
Lithium	39		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	13000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	280	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	24		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	5300		500	110	ug/L	1		6020B	Total Recoverable
Sodium	88000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	1000		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.68	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	160		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	410	B	50	13	ug/L	1		6020B	Dissolved
Calcium	89000		200	44	ug/L	1		6020B	Dissolved
Copper	2.7		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	230		100	47	ug/L	1		6020B	Dissolved
Lithium	40		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	13000		200	49	ug/L	1		6020B	Dissolved
Manganese	260		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	24		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	5300		500	110	ug/L	1		6020B	Dissolved
Sodium	89000		200	77	ug/L	1		6020B	Dissolved
Strontium	1000		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	270		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	2.1		1.0	0.18	mg/L	1		300.0	Total/NA
Nitrate as N	0.46	J	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	220		10	1.2	mg/L	10		300.0	Total/NA
Fluoride	0.73	J	1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.46	J	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	22		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.024	J	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	110	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	110	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.48		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	550		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.8	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	5.6		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	5.6		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: PRC-01_20240924-FBLL — Lab Sample ID: 500-257245-22

No Detections.

Client Sample ID: PNC-03_20240924 — Lab Sample ID: 500-257245-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.57	^-	0.50	0.20	ng/L	1		1631E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PNC-03_20240924 (Continued)

Lab Sample ID: 500-257245-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.1	^-	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.31		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.32		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	36	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.47	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	96		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	41	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	52000		200	44	ug/L	1		6020B	Total Recoverable
Copper	7.2		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	340		100	47	ug/L	1		6020B	Total Recoverable
Lithium	3.7	J	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	11000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	45	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	2000		500	110	ug/L	1		6020B	Total Recoverable
Sodium	9400		200	77	ug/L	1		6020B	Total Recoverable
Strontium	300		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.47	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	91		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	43	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	51000		200	44	ug/L	1		6020B	Dissolved
Copper	6.6		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	140		100	47	ug/L	1		6020B	Dissolved
Lithium	3.7	J	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	11000		200	49	ug/L	1		6020B	Dissolved
Manganese	40		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1900		500	110	ug/L	1		6020B	Dissolved
Sodium	9100		200	77	ug/L	1		6020B	Dissolved
Strontium	290		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	180		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.58	J	1.0	0.18	mg/L	1		300.0	Total/NA
Nitrate as N	0.46	J	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	44	B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.48	J	1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.46	J	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	0.32	J	1.0	0.21	mg/L	1		300.0	Total/NA
Cyanide, Total	0.0050		0.0050	0.0036	mg/L	1		335.4	Total/NA
Alkalinity	120	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	120	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	250		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	12		1.0	0.47	mg/L	1		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PNC-03_20240924 (Continued) — Lab Sample ID: 500-257245-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	14		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: PNC-03_20240924-FBLL — Lab Sample ID: 500-257245-24

No Detections.

Client Sample ID: ARC-03_20240926 — Lab Sample ID: 500-257245-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.035	J	0.050	0.022	ng/L	1		1630	Total/NA
Mercury	0.92		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.84		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.39	B	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.36	B	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	65	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.32	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	72		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	43	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	26000		200	44	ug/L	1		6020B	Total Recoverable
Copper	3.8		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	150		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	5700		200	49	ug/L	1		6020B	Total Recoverable
Manganese	26	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1700		500	110	ug/L	1		6020B	Total Recoverable
Sodium	14000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	150		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.25	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	74		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	37	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	27000		200	44	ug/L	1		6020B	Dissolved
Copper	3.5		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	80	J	100	47	ug/L	1		6020B	Dissolved
Magnesium	5900		200	49	ug/L	1		6020B	Dissolved
Manganese	29		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1700		500	110	ug/L	1		6020B	Dissolved
Sodium	14000		200	77	ug/L	1		6020B	Dissolved
Strontium	150		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	87		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.33	J	1.0	0.18	mg/L	1		300.0	Total/NA
Nitrate as N	0.45	J	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	23	B	1.0	0.12	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.45	J	1.0	0.070	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: ARC-03_20240926 (Continued) — Lab Sample ID: 500-257245-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	1.4		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.038	J	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	84	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	84	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	120		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	11		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	6.8		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	7.4		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: ARC-03_20240926-FBLL — Lab Sample ID: 500-257245-26

No Detections.

Client Sample ID: CBR-01_20240925 — Lab Sample ID: 500-257245-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.056		0.050	0.022	ng/L	1		1630	Total/NA
Methyl Mercury	0.046	J	0.050	0.022	ng/L	1		1630	Dissolved
Mercury	0.76		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.58		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.36	B	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.36	B	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	60	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.37	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	87		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	140	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	35000		200	44	ug/L	1		6020B	Total Recoverable
Copper	1.8	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	220		100	47	ug/L	1		6020B	Total Recoverable
Lithium	3.0	J	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	9000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	15	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1500		500	110	ug/L	1		6020B	Total Recoverable
Sodium	11000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	170		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.33	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	86		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	130	B	50	13	ug/L	1		6020B	Dissolved
Calcium	35000		200	44	ug/L	1		6020B	Dissolved
Copper	1.5	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	120		100	47	ug/L	1		6020B	Dissolved
Lithium	3.1	J	10	2.5	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: CBR-01_20240925 (Continued) — Lab Sample ID: 500-257245-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	8900		200	49	ug/L	1		6020B	Dissolved
Manganese	8.2		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1500		500	110	ug/L	1		6020B	Dissolved
Sodium	11000		200	77	ug/L	1		6020B	Dissolved
Strontium	170		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	120		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.26	J	1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	23	B	1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	1.7		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	110	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	110	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	180		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	6.8		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	6.4		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: CBR-01_20240925-FBLL — Lab Sample ID: 500-257245-28

No Detections.

Client Sample ID: DKC-03_20240926 — Lab Sample ID: 500-257245-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.056		0.050	0.022	ng/L	1		1630	Total/NA
Mercury	0.83		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.67		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.083	B	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.085	B	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	33	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.29	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	40		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	32	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	16000		200	44	ug/L	1		6020B	Total Recoverable
Copper	2.9		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	440		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	3900		200	49	ug/L	1		6020B	Total Recoverable
Manganese	30	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1400		500	110	ug/L	1		6020B	Total Recoverable
Sodium	10000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	65		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.33	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	39		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	28	J B	50	13	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DKC-03_20240926 (Continued) — Lab Sample ID: 500-257245-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	16000		200	44	ug/L	1		6020B	Dissolved
Copper	2.8		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	250		100	47	ug/L	1		6020B	Dissolved
Magnesium	3900		200	49	ug/L	1		6020B	Dissolved
Manganese	16		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1400		500	110	ug/L	1		6020B	Dissolved
Sodium	10000		200	77	ug/L	1		6020B	Dissolved
Strontium	64		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	55		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	11	B	1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	0.88	J	1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	61	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	61	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	82		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	7.6		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	7.7		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: DKC-03_20240926-FBLL — Lab Sample ID: 500-257245-30

No Detections.

Client Sample ID: ARC-01_20240925 — Lab Sample ID: 500-257245-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.050		0.050	0.022	ng/L	1		1630	Total/NA
Methyl Mercury	0.027	J	0.050	0.022	ng/L	1		1630	Dissolved
Mercury	0.77		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.50		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.049	J B	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.040	J B	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	80	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.58	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	30		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	20	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	32000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	0.62	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	2.3		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	2500		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	7700		200	49	ug/L	1		6020B	Total Recoverable
Manganese	430	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	2200		500	110	ug/L	1		6020B	Total Recoverable
Sodium	2800		200	77	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: ARC-01_20240925 (Continued) — Lab Sample ID: 500-257245-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Strontium	73		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.28	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	25		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	20	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	31000		200	44	ug/L	1		6020B	Dissolved
Copper	1.7	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	240		100	47	ug/L	1		6020B	Dissolved
Magnesium	7500		200	49	ug/L	1		6020B	Dissolved
Manganese	76		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	2100		500	110	ug/L	1		6020B	Dissolved
Sodium	2700		200	77	ug/L	1		6020B	Dissolved
Strontium	70		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	110		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	2.1	B	1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	0.35	J	1.0	0.21	mg/L	1		300.0	Total/NA
Cyanide, Total	0.0040	J	0.0050	0.0036	mg/L	1		335.4	Total/NA
Phosphorus as P	0.041	J	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	110	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	110	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.33		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	130		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	7.6		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	8.6		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	7.6		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: ARC-01_20240925-FBLL — Lab Sample ID: 500-257245-32

No Detections.

Client Sample ID: PNC-04_20240926 — Lab Sample ID: 500-257245-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.42	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.41	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.34	B	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.34	B	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	27	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.30	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	80		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	48	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	48000		200	44	ug/L	1		6020B	Total Recoverable
Copper	4.0		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	180		100	47	ug/L	1		6020B	Total Recoverable
Lithium	5.7	J	10	2.5	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: PNC-04_20240926 (Continued) — Lab Sample ID: 500-257245-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	8500		200	49	ug/L	1		6020B	Total Recoverable
Manganese	14	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1600		500	110	ug/L	1		6020B	Total Recoverable
Sodium	14000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	410		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.30	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	78		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	43	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	48000		200	44	ug/L	1		6020B	Dissolved
Copper	3.9		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	94	J	100	47	ug/L	1		6020B	Dissolved
Lithium	6.1	J	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	8400		200	49	ug/L	1		6020B	Dissolved
Manganese	9.9		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1600		500	110	ug/L	1		6020B	Dissolved
Sodium	14000		200	77	ug/L	1		6020B	Dissolved
Strontium	420		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	160		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.63	J	1.0	0.18	mg/L	1		300.0	Total/NA
Nitrate as N	0.44	J	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	53		5.0	0.58	mg/L	5		300.0	Total/NA
Nitrate Nitrite as N	0.44	J	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	0.87	J	1.0	0.21	mg/L	1		300.0	Total/NA
Cyanide, Total	0.0040	J B	0.0050	0.0036	mg/L	1		335.4	Total/NA
Alkalinity	100	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	100	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.48		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	250		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	7.5		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	7.4		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: PNC-04_20240926-FBLL — Lab Sample ID: 500-257245-34

No Detections.

Client Sample ID: ARC-02_20240925 — Lab Sample ID: 500-257245-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.15		0.050	0.022	ng/L	1		1630	Total/NA
Methyl Mercury	0.089		0.050	0.022	ng/L	1		1630	Dissolved
Mercury	1.4		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	1.2		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.074	B	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.067	B	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	130		100	25	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: ARC-02_20240925 (Continued) — Lab Sample ID: 500-257245-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.52	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	30		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	28	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	18000		200	44	ug/L	1		6020B	Total Recoverable
Copper	6.9		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	760		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	3800		200	49	ug/L	1		6020B	Total Recoverable
Manganese	44	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1400		500	110	ug/L	1		6020B	Total Recoverable
Sodium	2000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	68		4.0	0.64	ug/L	1		6020B	Total Recoverable
Aluminum	34	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.49	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	27		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	26	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	17000		200	44	ug/L	1		6020B	Dissolved
Copper	6.1		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	420		100	47	ug/L	1		6020B	Dissolved
Magnesium	3700		200	49	ug/L	1		6020B	Dissolved
Manganese	18		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1300		500	110	ug/L	1		6020B	Dissolved
Sodium	2000		200	77	ug/L	1		6020B	Dissolved
Strontium	66		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	60		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	1.7	B	1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	2.4		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	57	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	57	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.48		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	64		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	3.8	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	13		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	12		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: ARC-02_20240925-FBLL — Lab Sample ID: 500-257245-36

No Detections.

Client Sample ID: MW-43_20240925 — Lab Sample ID: 500-257245-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.26	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.22	J	0.50	0.20	ng/L	1		1631E	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-43_20240925 (Continued)

Lab Sample ID: 500-257245-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Uranium	67	B	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	66	B	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	99	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.67	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	210		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	78	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	21000		200	44	ug/L	1		6020B	Total Recoverable
Copper	0.70	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	110		100	47	ug/L	1		6020B	Total Recoverable
Lead	0.41	J	0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	48		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	1300		200	49	ug/L	1		6020B	Total Recoverable
Manganese	600	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	7.2		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	260	J	500	110	ug/L	1		6020B	Total Recoverable
Sodium	100000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	380		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	20		5.0	2.2	ug/L	1		6020B	Total Recoverable
Arsenic	0.62	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	170		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	75	B	50	13	ug/L	1		6020B	Dissolved
Calcium	20000		200	44	ug/L	1		6020B	Dissolved
Copper	0.51	J	2.0	0.50	ug/L	1		6020B	Dissolved
Lithium	47		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	1300		200	49	ug/L	1		6020B	Dissolved
Manganese	58		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	7.1		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	240	J	500	110	ug/L	1		6020B	Dissolved
Sodium	100000		200	77	ug/L	1		6020B	Dissolved
Strontium	380		4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	16		5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	57		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	1.4	B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.61	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	9.2		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	250	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	250	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-43_20240925 (Continued) — Lab Sample ID: 500-257245-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	280		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	0.75	J	1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	0.90	J	1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-43_20240925-FBLL — Lab Sample ID: 500-257245-38

No Detections.

Client Sample ID: MW-44_20240925 — Lab Sample ID: 500-257245-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.41	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.24	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	9.4	B	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	12	B	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	380		100	25	ug/L	1		6020B	Total Recoverable
Antimony	2.7	J ^1+	3.0	1.3	ug/L	1		6020B	Total Recoverable
Arsenic	0.64	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	240		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	240	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	33000		200	44	ug/L	1		6020B	Total Recoverable
Copper	1.6	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	380		100	47	ug/L	1		6020B	Total Recoverable
Lead	85		0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	33		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	7700		200	49	ug/L	1		6020B	Total Recoverable
Manganese	230	B	2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	75		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	980		500	110	ug/L	1		6020B	Total Recoverable
Sodium	110000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	640		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.43	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	290		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	220	B	50	13	ug/L	1		6020B	Dissolved
Calcium	40000		200	44	ug/L	1		6020B	Dissolved
Iron	65	J	100	47	ug/L	1		6020B	Dissolved
Lithium	33		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	9300		200	49	ug/L	1		6020B	Dissolved
Manganese	270		2.5	0.79	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-44_20240925 (Continued) — Lab Sample ID: 500-257245-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	49		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	980		500	110	ug/L	1		6020B	Dissolved
Sodium	96000		200	77	ug/L	1		6020B	Dissolved
Strontium	770		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	120		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.88	J	1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	67		5.0	0.58	mg/L	5		300.0	Total/NA
Fluoride	1.2		1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	25		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.038	J	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	210	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	210	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	360		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	7.8		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	0.97	J	1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	1.1		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-44_20240925-FBLL — Lab Sample ID: 500-257245-40

No Detections.

Client Sample ID: DKC-02_20240925 — Lab Sample ID: 500-257245-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.049	J	0.050	0.022	ng/L	1		1630	Total/NA
Methyl Mercury	0.045	J	0.050	0.022	ng/L	1		1630	Dissolved
Mercury	0.87		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.91		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.30	B	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.29	B	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	30	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.36	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	43		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	35	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	18000		200	44	ug/L	1		6020B	Total Recoverable
Copper	2.8		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	430		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	5000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	14		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1300		500	110	ug/L	1		6020B	Total Recoverable
Sodium	4700		200	77	ug/L	1		6020B	Total Recoverable
Strontium	78		4.0	0.64	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: DKC-02_20240925 (Continued) — Lab Sample ID: 500-257245-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	32	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.37	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	42		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	31	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	18000		200	44	ug/L	1		6020B	Dissolved
Copper	2.8		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	390		100	47	ug/L	1		6020B	Dissolved
Magnesium	5000		200	49	ug/L	1		6020B	Dissolved
Manganese	12		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1300		500	110	ug/L	1		6020B	Dissolved
Sodium	4700		200	77	ug/L	1		6020B	Dissolved
Strontium	78		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	67		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	2.6	B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.48	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	0.89	J	1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	74	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	74	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	78		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	2.2	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	8.3		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	8.4		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: DKC-02_20240925-FBLL — Lab Sample ID: 500-257245-42

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-257245-1	PNC-01_20240923	Water	09/23/24 17:50	09/25/24 09:45
500-257245-2	PNC-01_20240923_FBLL	Water	09/23/24 17:50	09/25/24 09:45
500-257245-3	DUP-01-SW_20240923	Water	09/23/24 23:59	09/25/24 09:45
500-257245-4	DUP-01-SW_20240923_FBLL	Water	09/23/24 23:59	09/25/24 09:45
500-257245-5	PRC-02_20240923	Water	09/23/24 13:55	09/25/24 09:45
500-257245-6	PRC-02_20240923_FBLL	Water	09/23/24 13:55	09/25/24 09:45
500-257245-7	MLR-03_20240923	Water	09/23/24 12:50	09/25/24 09:45
500-257245-8	MLR-03_20240923_FBLL	Water	09/23/24 12:50	09/25/24 09:45
500-257245-9	NTC-01_20240923	Water	09/23/24 15:10	09/25/24 09:45
500-257245-10	NTC-01_20240923_FBLL	Water	09/23/24 15:10	09/25/24 09:45
500-257245-11	MLR-01_20240923	Water	09/23/24 17:00	09/25/24 09:45
500-257245-12	MLR-01_20240923_FBLL	Water	09/23/24 17:00	09/25/24 09:45
500-257245-13	SBW-01_20240924	Water	09/24/24 09:30	09/26/24 10:30
500-257245-14	SBW-01_20240924_FBLL	Water	09/24/24 09:30	09/26/24 10:30
500-257245-15	SBD-01_20240924	Water	09/24/24 11:00	09/26/24 10:30
500-257245-16	SBD-01_20240924-FBLL	Water	09/24/24 11:00	09/26/24 10:30
500-257245-17	PNC-02_20240924	Water	09/24/24 12:50	09/26/24 10:30
500-257245-18	PNC-02_20240924-FBLL	Water	09/24/24 12:50	09/26/24 10:30
500-257245-19	MLR-02_20240924	Water	09/24/24 14:50	09/26/24 10:30
500-257245-20	MLR-02_20240924-FBLL	Water	09/24/24 14:50	09/26/24 10:30
500-257245-21	PRC-01_20240924	Water	09/24/24 15:40	09/26/24 10:30
500-257245-22	PRC-01_20240924-FBLL	Water	09/24/24 15:40	09/26/24 10:30
500-257245-23	PNC-03_20240924	Water	09/24/24 16:30	09/26/24 10:30
500-257245-24	PNC-03_20240924-FBLL	Water	09/24/24 16:30	09/26/24 10:30
500-257245-25	ARC-03_20240926	Water	09/26/24 08:15	09/27/24 09:00
500-257245-26	ARC-03_20240926-FBLL	Water	09/26/24 08:15	09/27/24 09:00
500-257245-27	CBR-01_20240925	Water	09/25/24 09:00	09/27/24 09:00
500-257245-28	CBR-01_20240925-FBLL	Water	09/25/24 09:00	09/27/24 09:00
500-257245-29	DKC-03_20240926	Water	09/26/24 09:45	09/27/24 09:00
500-257245-30	DKC-03_20240926-FBLL	Water	09/26/24 09:45	09/27/24 09:00
500-257245-31	ARC-01_20240925	Water	09/25/24 10:00	09/27/24 09:00
500-257245-32	ARC-01_20240925-FBLL	Water	09/25/24 10:00	09/27/24 09:00
500-257245-33	PNC-04_20240926	Water	09/26/24 10:45	09/27/24 09:00
500-257245-34	PNC-04_20240926-FBLL	Water	09/26/24 10:45	09/27/24 09:00
500-257245-35	ARC-02_20240925	Water	09/25/24 11:30	09/27/24 09:00
500-257245-36	ARC-02_20240925-FBLL	Water	09/25/24 11:30	09/27/24 09:00
500-257245-37	MW-43_20240925	Water	09/25/24 14:00	09/27/24 09:00
500-257245-38	MW-43_20240925-FBLL	Water	09/25/24 14:00	09/27/24 09:00
500-257245-39	MW-44_20240925	Water	09/25/24 15:20	09/27/24 09:00
500-257245-40	MW-44_20240925-FBLL	Water	09/25/24 15:20	09/27/24 09:00
500-257245-41	DKC-02_20240925	Water	09/25/24 17:45	09/27/24 09:00
500-257245-42	DKC-02_20240925-FBLL	Water	09/25/24 17:45	09/27/24 09:00

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-01_20240923

Date Collected: 09/23/24 17:50
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-1
Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.14**		0.050	0.022	ng/L		10/04/24 12:34	10/04/24 21:02	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.086**		0.050	0.022	ng/L		10/04/24 12:34	10/04/24 21:12	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.88**		0.50	0.20	ng/L			10/01/24 18:13	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.2**	**J**	5.0	2.0	ng/L			10/04/24 16:43	10

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.083**		0.050	0.0098	ug/L		09/27/24 10:40	09/28/24 03:42	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.081**		0.050	0.0098	ug/L		09/27/24 10:40	10/02/24 22:05	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**49**	**J**	100	25	ug/L		10/02/24 09:17	10/04/24 20:12	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:12	1
Arsenic	**0.78**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 20:12	1
Barium	**66**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 20:12	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 20:12	1
Boron	**36**	**J B**	50	13	ug/L		10/02/24 09:17	10/04/24 20:12	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 20:12	1
Calcium	**45000**		200	44	ug/L		10/02/24 09:17	10/04/24 20:12	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 20:12	1
Cobalt	**1.0**		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 20:12	1
Copper	**2.6**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 20:12	1
Iron	**8400**		100	47	ug/L		10/02/24 09:17	10/04/24 20:12	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 20:12	1
Lithium	<2.5		10	2.5	ug/L		10/02/24 09:17	10/04/24 20:12	1
Magnesium	**8400**		200	49	ug/L		10/02/24 09:17	10/04/24 20:12	1
Manganese	**1700**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 20:12	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 20:12	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 20:12	1
Potassium	**2000**		500	110	ug/L		10/02/24 09:17	10/04/24 20:12	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 20:12	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 20:12	1
Sodium	**3400**		200	77	ug/L		10/02/24 09:17	10/04/24 20:12	1
Strontium	**85**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 20:12	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 20:12	1
Tin	**1.8**	**J**	5.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:12	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 20:12	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 20:12	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-01_20240923

Date Collected: 09/23/24 17:50
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:00	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/07/24 12:37	1
Arsenic	**0.36**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:00	1
Barium	**49**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:00	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:00	1
Boron	**39**	**J B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:00	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:00	1
Calcium	**41000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:00	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:00	1
Cobalt	**0.75**	**J**	1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:00	1
Copper	**1.4**	**J**	2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:00	1
Iron	**570**		100	47	ug/L		10/03/24 08:59	10/04/24 19:00	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:00	1
Lithium	<2.5		10	2.5	ug/L		10/03/24 08:59	10/04/24 19:00	1
Magnesium	**7900**		200	49	ug/L		10/03/24 08:59	10/04/24 19:00	1
Manganese	**1400**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:00	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:00	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:00	1
Potassium	**1900**		500	110	ug/L		10/03/24 08:59	10/04/24 19:00	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:00	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:00	1
Sodium	**3200**		200	77	ug/L		10/03/24 08:59	10/04/24 19:00	1
Strontium	**77**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:00	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:00	1
Tin	**1.8**	**J**	5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:00	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:00	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:00	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**150**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			09/25/24 11:39	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			09/25/24 11:39	1
Chloride (EPA 300.0)	**7.8**	**B**	1.0	0.12	mg/L			09/25/24 11:39	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/25/24 11:39	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			09/25/24 11:39	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/25/24 11:39	1
Sulfate (EPA 300.0)	**0.53**	**J**	1.0	0.21	mg/L			09/25/24 11:39	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		09/29/24 08:52	09/30/24 11:10	1
Ammonia (EPA 350.1)	**0.12**	**J**	0.20	0.10	mg/L		10/01/24 15:09	10/03/24 10:59	1
Phosphorus as P (EPA 365.1)	**0.049**	**J**	0.050	0.024	mg/L		09/27/24 11:00	09/27/24 17:03	1
Alkalinity (SM 2320B)	**130**		5.0	3.7	mg/L			09/27/24 16:57	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**130**		5.0	3.7	mg/L			09/27/24 16:57	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			09/27/24 16:57	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-01_20240923
Date Collected: 09/23/24 17:50
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	240		10	4.3	mg/L			09/26/24 03:30	1
Total Suspended Solids (SM 2540D)	19		13	4.8	mg/L			09/30/24 11:21	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/25/24 22:56	1
Total Organic Carbon (SM 5310C)	12		1.0	0.47	mg/L			10/07/24 15:52	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	10		1.0	0.47	mg/L			10/08/24 09:08	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-01_20240923_FBLL
Date Collected: 09/23/24 17:50
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 16:47	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: DUP-01-SW_20240923

Date Collected: 09/23/24 23:59
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-3

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.038**	**J**	0.050	0.022	ng/L		10/04/24 12:34	10/04/24 21:22	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.056**		0.050	0.022	ng/L		10/04/24 12:34	10/04/24 21:32	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.78**		0.50	0.20	ng/L			10/04/24 16:51	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.93**		0.50	0.20	ng/L			10/04/24 16:55	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.095**		0.050	0.0098	ug/L		09/27/24 10:40	09/28/24 03:46	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.094**		0.050	0.0098	ug/L		09/27/24 10:40	09/28/24 03:24	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**160**		100	25	ug/L		10/02/24 09:17	10/04/24 20:14	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:14	1
Arsenic	**0.72**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 20:14	1
Barium	**84**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 20:14	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 20:14	1
Boron	**100**	**B**	50	13	ug/L		10/02/24 09:17	10/04/24 20:14	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 20:14	1
Calcium	**26000**		200	44	ug/L		10/02/24 09:17	10/04/24 20:14	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 20:14	1
Cobalt	**0.42**	**J**	1.0	0.40	ug/L		10/02/24 09:17	10/04/24 20:14	1
Copper	**4.5**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 20:14	1
Iron	**1100**		100	47	ug/L		10/02/24 09:17	10/04/24 20:14	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 20:14	1
Lithium	**5.2**	**J**	10	2.5	ug/L		10/02/24 09:17	10/04/24 20:14	1
Magnesium	**4600**		200	49	ug/L		10/02/24 09:17	10/04/24 20:14	1
Manganese	**910**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 20:14	1
Molybdenum	**2.8**	**J**	5.0	2.5	ug/L		10/02/24 09:17	10/04/24 20:14	1
Nickel	**0.77**	**J**	2.0	0.63	ug/L		10/02/24 09:17	10/04/24 20:14	1
Potassium	**2200**		500	110	ug/L		10/02/24 09:17	10/04/24 20:14	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 20:14	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 20:14	1
Sodium	**8800**		200	77	ug/L		10/02/24 09:17	10/04/24 20:14	1
Strontium	**200**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 20:14	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 20:14	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:14	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 20:14	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 20:14	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: DUP-01-SW_20240923

Date Collected: 09/23/24 23:59
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-3

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:02	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:02	1
Arsenic	**0.62**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:02	1
Barium	**80**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:02	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:02	1
Boron	**100**	**B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:02	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:02	1
Calcium	**26000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:02	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:02	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:02	1
Copper	**1.6**	**J**	2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:02	1
Iron	**710**		100	47	ug/L		10/03/24 08:59	10/04/24 19:02	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:02	1
Lithium	**5.2**	**J**	10	2.5	ug/L		10/03/24 08:59	10/04/24 19:02	1
Magnesium	**4500**		200	49	ug/L		10/03/24 08:59	10/04/24 19:02	1
Manganese	**890**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:02	1
Molybdenum	**2.7**	**J**	5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:02	1
Nickel	**0.63**	**J**	2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:02	1
Potassium	**2100**		500	110	ug/L		10/03/24 08:59	10/04/24 19:02	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:02	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:02	1
Sodium	**8600**		200	77	ug/L		10/03/24 08:59	10/04/24 19:02	1
Strontium	**190**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:02	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:02	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:02	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:02	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:02	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**85**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.28**	**J**	1.0	0.18	mg/L			09/25/24 12:09	1
Nitrate as N (EPA 300.0)	<0.043	H3	1.0	0.043	mg/L			09/25/24 12:09	1
Chloride (EPA 300.0)	**11**	**B**	1.0	0.12	mg/L			09/25/24 12:09	1
Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			09/25/24 12:09	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			09/25/24 12:09	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			09/25/24 12:09	1
Sulfate (EPA 300.0)	**0.75**	**J**	1.0	0.21	mg/L			09/25/24 12:09	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		09/29/24 08:52	09/30/24 11:10	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/01/24 15:09	10/03/24 11:00	1
Phosphorus as P (EPA 365.1)	**0.030**	**J**	0.050	0.024	mg/L		09/27/24 11:00	09/27/24 17:04	1
Alkalinity (SM 2320B)	**87**		5.0	3.7	mg/L			09/27/24 17:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**87**		5.0	3.7	mg/L			09/27/24 17:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			09/27/24 17:08	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: DUP-01-SW_20240923
Date Collected: 09/23/24 23:59
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	140		10	4.3	mg/L			09/26/24 03:32	1
Total Suspended Solids (SM 2540D)	6.8		5.0	1.9	mg/L			09/27/24 15:27	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/25/24 23:00	1
Total Organic Carbon (SM 5310C)	11		1.0	0.47	mg/L			10/07/24 17:16	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	11		1.0	0.47	mg/L			10/08/24 09:08	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: DUP-01-SW_20240923_FBLL

Date Collected: 09/23/24 23:59
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-4

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 16:59	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PRC-02_20240923

Date Collected: 09/23/24 13:55
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-5

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.040**	**J**	0.050	0.022	ng/L		10/04/24 12:34	10/04/24 21:43	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		09/30/24 12:00	10/01/24 17:37	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.27**	**J**	0.50	0.20	ng/L			10/04/24 17:03	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.34**	**J**	0.50	0.20	ng/L			10/04/24 17:07	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.43**		0.050	0.0098	ug/L		09/27/24 10:40	09/28/24 03:49	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.43**		0.050	0.0098	ug/L		09/27/24 10:40	09/28/24 03:28	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**120**		100	25	ug/L		10/02/24 09:17	10/04/24 20:16	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:16	1
Arsenic	**0.46**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 20:16	1
Barium	**150**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 20:16	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 20:16	1
Boron	**390**	**B**	50	13	ug/L		10/02/24 09:17	10/04/24 20:16	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 20:16	1
Calcium	**92000**		200	44	ug/L		10/02/24 09:17	10/04/24 20:16	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 20:16	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 20:16	1
Copper	**9.0**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 20:16	1
Iron	**170**		100	47	ug/L		10/02/24 09:17	10/04/24 20:16	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 20:16	1
Lithium	**36**		10	2.5	ug/L		10/02/24 09:17	10/04/24 20:16	1
Magnesium	**13000**		200	49	ug/L		10/02/24 09:17	10/04/24 20:16	1
Manganese	**100**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 20:16	1
Molybdenum	**19**		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 20:16	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 20:16	1
Potassium	**5400**		500	110	ug/L		10/02/24 09:17	10/04/24 20:16	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 20:16	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 20:16	1
Sodium	**88000**		200	77	ug/L		10/02/24 09:17	10/04/24 20:16	1
Strontium	**1000**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 20:16	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 20:16	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:16	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 20:16	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 20:16	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PRC-02_20240923

Date Collected: 09/23/24 13:55
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-5

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:04	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:04	1
Arsenic	**0.44**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:04	1
Barium	**140**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:04	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:04	1
Boron	**370**	**B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:04	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:04	1
Calcium	**90000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:04	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:04	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:04	1
Copper	**5.8**		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:04	1
Iron	<47		100	47	ug/L		10/03/24 08:59	10/04/24 19:04	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:04	1
Lithium	**35**		10	2.5	ug/L		10/03/24 08:59	10/04/24 19:04	1
Magnesium	**13000**		200	49	ug/L		10/03/24 08:59	10/04/24 19:04	1
Manganese	**43**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:04	1
Molybdenum	**19**		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:04	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:04	1
Potassium	**5400**		500	110	ug/L		10/03/24 08:59	10/04/24 19:04	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:04	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:04	1
Sodium	**88000**		200	77	ug/L		10/03/24 08:59	10/04/24 19:04	1
Strontium	**1000**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:04	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:04	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:04	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:04	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:04	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**280**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**2.1**		1.0	0.18	mg/L			09/25/24 11:09	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			09/25/24 11:09	1
Chloride (EPA 300.0)	**220**		10	1.2	mg/L			10/03/24 17:20	10
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/25/24 11:09	1
Fluoride (EPA 300.0)	**0.96**	**J**	1.0	0.19	mg/L			09/25/24 11:09	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/25/24 11:09	1
Sulfate (EPA 300.0)	**17**		1.0	0.21	mg/L			09/25/24 11:09	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		09/29/24 08:52	09/30/24 11:13	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:06	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		09/27/24 11:00	09/27/24 17:04	1
Alkalinity (SM 2320B)	**110**		5.0	3.7	mg/L			09/27/24 17:17	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**110**		5.0	3.7	mg/L			09/27/24 17:17	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			09/27/24 17:17	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PRC-02_20240923
Date Collected: 09/23/24 13:55
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-5
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	680		10	4.3	mg/L			09/26/24 03:35	1
Total Suspended Solids (SM 2540D)	5.2		5.0	1.9	mg/L			09/30/24 11:24	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/25/24 23:04	1
Total Organic Carbon (SM 5310C)	5.4		1.0	0.47	mg/L			10/07/24 17:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	5.6		1.0	0.47	mg/L			10/08/24 09:08	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PRC-02_20240923_FBLL
Date Collected: 09/23/24 13:55
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-6
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 17:20	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MLR-03_20240923

Date Collected: 09/23/24 12:50
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-7

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		09/30/24 12:00	10/01/24 17:47	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.051	0.022	ng/L		09/30/24 12:00	10/01/24 17:57	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.54**		0.50	0.20	ng/L			10/04/24 17:24	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.65**		0.50	0.20	ng/L			10/04/24 17:28	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.26**		0.050	0.0098	ug/L		09/27/24 10:40	09/28/24 03:53	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.27**		0.050	0.0098	ug/L		09/27/24 10:40	09/28/24 03:31	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**46**	**J**	100	25	ug/L		10/02/24 09:17	10/04/24 20:19	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:19	1
Arsenic	**0.49**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 20:19	1
Barium	**45**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 20:19	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 20:19	1
Boron	**51**	**B**	50	13	ug/L		10/02/24 09:17	10/04/24 20:19	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 20:19	1
Calcium	**34000**		200	44	ug/L		10/02/24 09:17	10/04/24 20:19	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 20:19	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 20:19	1
Copper	**29**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 20:19	1
Iron	**62**	**J**	100	47	ug/L		10/02/24 09:17	10/04/24 20:19	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 20:19	1
Lithium	<2.5		10	2.5	ug/L		10/02/24 09:17	10/04/24 20:19	1
Magnesium	**6900**		200	49	ug/L		10/02/24 09:17	10/04/24 20:19	1
Manganese	**5.3**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 20:19	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 20:19	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 20:19	1
Potassium	**1700**		500	110	ug/L		10/02/24 09:17	10/04/24 20:19	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 20:19	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 20:19	1
Sodium	**11000**		200	77	ug/L		10/02/24 09:17	10/04/24 20:19	1
Strontium	**86**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 20:19	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 20:19	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:19	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 20:19	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 20:19	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MLR-03_20240923

Date Collected: 09/23/24 12:50
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-7

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:06	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:06	1
Arsenic	**0.47**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:06	1
Barium	**43**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:06	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:06	1
Boron	**50**	**B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:06	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:06	1
Calcium	**33000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:06	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:06	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:06	1
Copper	**26**		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:06	1
Iron	<47		100	47	ug/L		10/03/24 08:59	10/04/24 19:06	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:06	1
Lithium	<2.5		10	2.5	ug/L		10/03/24 08:59	10/04/24 19:06	1
Magnesium	**6700**		200	49	ug/L		10/03/24 08:59	10/04/24 19:06	1
Manganese	**2.6**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:06	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:06	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:06	1
Potassium	**1600**		500	110	ug/L		10/03/24 08:59	10/04/24 19:06	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:06	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:06	1
Sodium	**11000**		200	77	ug/L		10/03/24 08:59	10/04/24 19:06	1
Strontium	**84**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:06	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:06	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:06	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:06	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:06	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**110**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			09/25/24 10:53	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			09/25/24 10:53	1
Chloride (EPA 300.0)	**13**	**B**	1.0	0.12	mg/L			09/25/24 10:53	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/25/24 10:53	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			09/25/24 10:53	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/25/24 10:53	1
Sulfate (EPA 300.0)	**3.0**		1.0	0.21	mg/L			09/25/24 10:53	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		09/29/24 08:52	09/30/24 11:13	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:07	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		09/27/24 11:00	09/27/24 17:05	1
Alkalinity (SM 2320B)	**110**		5.0	3.7	mg/L			09/27/24 17:26	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**110**		5.0	3.7	mg/L			09/27/24 17:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			09/27/24 17:26	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MLR-03_20240923
Date Collected: 09/23/24 12:50
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-7
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	150		10	4.3	mg/L			09/26/24 03:37	1
Total Suspended Solids (SM 2540D)	2.6	J	5.0	1.9	mg/L			09/30/24 11:27	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/25/24 23:08	1
Total Organic Carbon (SM 5310C)	9.9		1.0	0.47	mg/L			10/07/24 18:12	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	10		1.0	0.47	mg/L			10/08/24 09:08	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MLR-03_20240923_FBLL

Lab Sample ID: 500-257245-8

Date Collected: 09/23/24 12:50
Matrix: Water
Date Received: 09/25/24 09:45

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 17:32	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: NTC-01_20240923

Date Collected: 09/23/24 15:10
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-9
Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		09/30/24 12:00	10/01/24 18:07	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.025**	**J B**	0.050	0.022	ng/L		09/30/24 12:00	10/01/24 18:17	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.73**		0.50	0.20	ng/L			10/04/24 17:36	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.68**		0.50	0.20	ng/L			10/04/24 17:41	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.12**		0.050	0.0098	ug/L		09/27/24 10:40	09/28/24 04:04	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.075**		0.050	0.0098	ug/L		09/27/24 10:40	09/28/24 03:35	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**100**		100	25	ug/L		10/02/24 09:17	10/04/24 20:21	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:21	1
Arsenic	**0.73**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 20:21	1
Barium	**82**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 20:21	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 20:21	1
Boron	**100**	**B**	50	13	ug/L		10/02/24 09:17	10/04/24 20:21	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 20:21	1
Calcium	**27000**		200	44	ug/L		10/02/24 09:17	10/04/24 20:21	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 20:21	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 20:21	1
Copper	**3.5**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 20:21	1
Iron	**1100**		100	47	ug/L		10/02/24 09:17	10/04/24 20:21	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 20:21	1
Lithium	**5.0**	**J**	10	2.5	ug/L		10/02/24 09:17	10/04/24 20:21	1
Magnesium	**4700**		200	49	ug/L		10/02/24 09:17	10/04/24 20:21	1
Manganese	**910**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 20:21	1
Molybdenum	**2.8**	**J**	5.0	2.5	ug/L		10/02/24 09:17	10/04/24 20:21	1
Nickel	**0.77**	**J**	2.0	0.63	ug/L		10/02/24 09:17	10/04/24 20:21	1
Potassium	**2200**		500	110	ug/L		10/02/24 09:17	10/04/24 20:21	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 20:21	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 20:21	1
Sodium	**9000**		200	77	ug/L		10/02/24 09:17	10/04/24 20:21	1
Strontium	**200**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 20:21	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 20:21	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:21	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 20:21	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 20:21	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: NTC-01_20240923

Date Collected: 09/23/24 15:10
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-9

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:13	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:13	1
Arsenic	**0.57**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:13	1
Barium	**80**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:13	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:13	1
Boron	**100**	**B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:13	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:13	1
Calcium	**26000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:13	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:13	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:13	1
Copper	**2.2**		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:13	1
Iron	**620**		100	47	ug/L		10/03/24 08:59	10/04/24 19:13	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:13	1
Lithium	**4.9**	**J**	10	2.5	ug/L		10/03/24 08:59	10/04/24 19:13	1
Magnesium	**4600**		200	49	ug/L		10/03/24 08:59	10/04/24 19:13	1
Manganese	**860**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:13	1
Molybdenum	**2.6**	**J**	5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:13	1
Nickel	**0.64**	**J**	2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:13	1
Potassium	**2100**		500	110	ug/L		10/03/24 08:59	10/04/24 19:13	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:13	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:13	1
Sodium	**8800**		200	77	ug/L		10/03/24 08:59	10/04/24 19:13	1
Strontium	**200**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:13	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:13	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:13	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:13	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:13	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**87**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.25**	**J**	1.0	0.18	mg/L			09/25/24 11:24	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			09/25/24 11:24	1
Chloride (EPA 300.0)	**11**	**B**	1.0	0.12	mg/L			09/25/24 11:24	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/25/24 11:24	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			09/25/24 11:24	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/25/24 11:24	1
Sulfate (EPA 300.0)	**0.75**	**J**	1.0	0.21	mg/L			09/25/24 11:24	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		09/29/24 08:52	09/30/24 11:13	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:07	1
Phosphorus as P (EPA 365.1)	**0.033**	**J**	0.050	0.024	mg/L		09/27/24 11:00	09/27/24 17:05	1
Alkalinity (SM 2320B)	**85**		5.0	3.7	mg/L			09/27/24 17:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**85**		5.0	3.7	mg/L			09/27/24 17:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			09/27/24 17:34	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: NTC-01_20240923
Date Collected: 09/23/24 15:10
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-9
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	110		10	4.3	mg/L			09/26/24 03:40	1
Total Suspended Solids (SM 2540D)	6.0		5.0	1.9	mg/L			09/30/24 11:30	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/25/24 23:12	1
Total Organic Carbon (SM 5310C)	11		1.0	0.47	mg/L			10/07/24 18:41	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	11		1.0	0.47	mg/L			10/08/24 09:08	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: NTC-01_20240923_FBLL
Date Collected: 09/23/24 15:10
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-10
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 17:45	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MLR-01_20240923

Date Collected: 09/23/24 17:00
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-11

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.089**	**B**	0.050	0.022	ng/L		09/30/24 12:00	10/01/24 18:28	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.078**	**B**	0.050	0.022	ng/L		09/30/24 12:00	10/01/24 18:58	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.96**		0.50	0.20	ng/L			10/04/24 17:49	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.96**		0.50	0.20	ng/L			10/04/24 17:53	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.57**		0.050	0.0098	ug/L		09/27/24 10:40	09/28/24 04:08	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.56**		0.050	0.0098	ug/L		09/27/24 10:40	09/28/24 03:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**130**		100	25	ug/L		10/02/24 09:17	10/04/24 20:23	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:23	1
Arsenic	**0.46**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 20:23	1
Barium	**38**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 20:23	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 20:23	1
Boron	**51**	**B**	50	13	ug/L		10/02/24 09:17	10/04/24 20:23	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 20:23	1
Calcium	**23000**		200	44	ug/L		10/02/24 09:17	10/04/24 20:23	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 20:23	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 20:23	1
Copper	**2.7**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 20:23	1
Iron	**390**		100	47	ug/L		10/02/24 09:17	10/04/24 20:23	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 20:23	1
Lithium	<2.5		10	2.5	ug/L		10/02/24 09:17	10/04/24 20:23	1
Magnesium	**6500**		200	49	ug/L		10/02/24 09:17	10/04/24 20:23	1
Manganese	**35**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 20:23	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 20:23	1
Nickel	**0.68**	**J**	2.0	0.63	ug/L		10/02/24 09:17	10/04/24 20:23	1
Potassium	**1600**		500	110	ug/L		10/02/24 09:17	10/04/24 20:23	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 20:23	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 20:23	1
Sodium	**4500**		200	77	ug/L		10/02/24 09:17	10/04/24 20:23	1
Strontium	**86**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 20:23	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 20:23	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:23	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 20:23	1
Zinc	**80**		20	6.9	ug/L		10/02/24 09:17	10/04/24 20:23	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MLR-01_20240923

Date Collected: 09/23/24 17:00
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-11

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**28**	**J**	100	25	ug/L		10/03/24 08:59	10/04/24 19:15	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:15	1
Arsenic	**0.44**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:15	1
Barium	**33**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:15	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:15	1
Boron	**46**	**J B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:15	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:15	1
Calcium	**23000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:15	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:15	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:15	1
Copper	**2.7**		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:15	1
Iron	**220**		100	47	ug/L		10/03/24 08:59	10/04/24 19:15	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:15	1
Lithium	<2.5		10	2.5	ug/L		10/03/24 08:59	10/04/24 19:15	1
Magnesium	**6200**		200	49	ug/L		10/03/24 08:59	10/04/24 19:15	1
Manganese	**22**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:15	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:15	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:15	1
Potassium	**1600**		500	110	ug/L		10/03/24 08:59	10/04/24 19:15	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:15	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:15	1
Sodium	**4000**		200	77	ug/L		10/03/24 08:59	10/04/24 19:15	1
Strontium	**79**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:15	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:15	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:15	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:15	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:15	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**85**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			09/25/24 11:54	1
Nitrate as N (EPA 300.0)	**0.45**	**J**	1.0	0.043	mg/L			09/25/24 11:54	1
Chloride (EPA 300.0)	**1.6**	**B**	1.0	0.12	mg/L			09/25/24 11:54	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/25/24 11:54	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			09/25/24 11:54	1
Nitrate Nitrite as N (EPA 300.0)	**0.45**	**J**	1.0	0.070	mg/L			09/25/24 11:54	1
Sulfate (EPA 300.0)	**0.94**	**J**	1.0	0.21	mg/L			09/25/24 11:54	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		09/29/24 08:52	09/30/24 11:14	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:08	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		09/27/24 11:00	09/27/24 17:05	1
Alkalinity (SM 2320B)	**87**	**B**	5.0	3.7	mg/L			10/07/24 12:54	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**87**	**B**	5.0	3.7	mg/L			10/07/24 12:54	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 12:54	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MLR-01_20240923
Date Collected: 09/23/24 17:00
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-11
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	92		10	4.3	mg/L			09/26/24 03:43	1
Total Suspended Solids (SM 2540D)	2.0	J	5.0	1.9	mg/L			09/30/24 11:33	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/25/24 23:16	1
Total Organic Carbon (SM 5310C)	11		1.0	0.47	mg/L			10/07/24 19:09	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	13		1.0	0.47	mg/L			10/08/24 09:08	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MLR-01_20240923_FBLL
Date Collected: 09/23/24 17:00
Date Received: 09/25/24 09:45

Lab Sample ID: 500-257245-12
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 17:57	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: SBW-01_20240924

Date Collected: 09/24/24 09:30
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-13

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/04/24 12:34	10/04/24 21:53	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/04/24 12:34	10/04/24 22:03	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 18:10	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 18:14	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.013**	**J**	0.050	0.0098	ug/L		10/02/24 10:55	10/02/24 21:07	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.014**	**J**	0.050	0.0098	ug/L		10/02/24 10:55	10/02/24 20:41	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/02/24 09:17	10/04/24 20:25	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:25	1
Arsenic	**0.52**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 20:25	1
Barium	**31**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 20:25	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 20:25	1
Boron	**34**	**J B**	50	13	ug/L		10/02/24 09:17	10/04/24 20:25	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 20:25	1
Calcium	**25000**		200	44	ug/L		10/02/24 09:17	10/04/24 20:25	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 20:25	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 20:25	1
Copper	**3.9**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 20:25	1
Iron	**180**		100	47	ug/L		10/02/24 09:17	10/04/24 20:25	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 20:25	1
Lithium	**2.9**	**J**	10	2.5	ug/L		10/02/24 09:17	10/04/24 20:25	1
Magnesium	**6400**		200	49	ug/L		10/02/24 09:17	10/04/24 20:25	1
Manganese	**24**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 20:25	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 20:25	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 20:25	1
Potassium	**570**		500	110	ug/L		10/02/24 09:17	10/04/24 20:25	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 20:25	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 20:25	1
Sodium	**3500**		200	77	ug/L		10/02/24 09:17	10/04/24 20:25	1
Strontium	**70**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 20:25	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 20:25	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:25	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 20:25	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 20:25	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: SBW-01_20240924

Date Collected: 09/24/24 09:30
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-13

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:18	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:18	1
Arsenic	**0.52**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:18	1
Barium	**30**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:18	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:18	1
Boron	**32**	**J B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:18	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:18	1
Calcium	**25000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:18	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:18	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:18	1
Copper	**3.4**		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:18	1
Iron	**56**	**J**	100	47	ug/L		10/03/24 08:59	10/04/24 19:18	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:18	1
Lithium	**2.9**	**J**	10	2.5	ug/L		10/03/24 08:59	10/04/24 19:18	1
Magnesium	**6400**		200	49	ug/L		10/03/24 08:59	10/04/24 19:18	1
Manganese	**3.0**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:18	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:18	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:18	1
Potassium	**570**		500	110	ug/L		10/03/24 08:59	10/04/24 19:18	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:18	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:18	1
Sodium	**3500**		200	77	ug/L		10/03/24 08:59	10/04/24 19:18	1
Strontium	**70**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:18	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:18	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:18	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:18	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:18	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**89**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			09/26/24 12:07	1
Nitrate as N (EPA 300.0)	<0.043	H3	1.0	0.043	mg/L			09/26/24 12:07	1
Chloride (EPA 300.0)	**0.68**	**J B**	1.0	0.12	mg/L			09/26/24 12:07	1
Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			09/26/24 12:07	1
Fluoride (EPA 300.0)	**0.48**	**J**	1.0	0.19	mg/L			09/26/24 12:07	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			09/26/24 12:07	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			09/26/24 12:07	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		09/29/24 08:52	09/30/24 11:17	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:08	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		09/27/24 11:00	09/27/24 17:06	1
Alkalinity (SM 2320B)	**97**	**B**	5.0	3.7	mg/L			10/07/24 13:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**97**	**B**	5.0	3.7	mg/L			10/07/24 13:03	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 13:03	1
Salinity (SM 2520B)	**0.33**		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: SBW-01_20240924
Date Collected: 09/24/24 09:30
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-13
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**86**		10	4.3	mg/L			09/30/24 00:24	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/01/24 22:44	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/30/24 02:07	1
Total Organic Carbon (SM 5310C)	**7.4**		1.0	0.47	mg/L			10/07/24 19:37	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**9.3**		1.0	0.47	mg/L			10/08/24 09:08	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: SBW-01_20240924_FBLL
Date Collected: 09/24/24 09:30
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-14
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 18:18	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: SBD-01_20240924

Date Collected: 09/24/24 11:00
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-15

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 18:28	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 18:59	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**3.4**	**F1**	0.50	0.20	ng/L			10/01/24 13:27	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.34**	**J**	0.50	0.20	ng/L			10/01/24 13:31	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.064**		0.050	0.0098	ug/L		10/02/24 10:55	10/02/24 19:10	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.050**		0.050	0.0098	ug/L		10/02/24 10:55	10/02/24 19:00	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**280**		100	25	ug/L		10/02/24 09:17	10/04/24 20:32	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:32	1
Arsenic	**0.54**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 20:32	1
Barium	**39**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 20:32	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 20:32	1
Boron	**52**	**B**	50	13	ug/L		10/02/24 09:17	10/04/24 20:32	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 20:32	1
Calcium	**35000**		200	44	ug/L		10/02/24 09:17	10/04/24 20:32	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 20:32	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 20:32	1
Copper	**1.0**	**J**	2.0	0.50	ug/L		10/02/24 09:17	10/04/24 20:32	1
Iron	**960**		100	47	ug/L		10/02/24 09:17	10/04/24 20:32	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 20:32	1
Lithium	**7.2**	**J**	10	2.5	ug/L		10/02/24 09:17	10/04/24 20:32	1
Magnesium	**6600**		200	49	ug/L		10/02/24 09:17	10/04/24 20:32	1
Manganese	**72**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 20:32	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 20:32	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 20:32	1
Potassium	**1100**		500	110	ug/L		10/02/24 09:17	10/04/24 20:32	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 20:32	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 20:32	1
Sodium	**5300**		200	77	ug/L		10/02/24 09:17	10/04/24 20:32	1
Strontium	**170**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 20:32	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 20:32	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:32	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 20:32	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 20:32	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: SBD-01_20240924

Date Collected: 09/24/24 11:00
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-15

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:20	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:20	1
Arsenic	**0.43**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:20	1
Barium	**35**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:20	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:20	1
Boron	**54**	**B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:20	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:20	1
Calcium	**35000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:20	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:20	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:20	1
Copper	<0.50		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:20	1
Iron	**78**	**J**	100	47	ug/L		10/03/24 08:59	10/04/24 19:20	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:20	1
Lithium	**7.3**	**J**	10	2.5	ug/L		10/03/24 08:59	10/04/24 19:20	1
Magnesium	**6300**		200	49	ug/L		10/03/24 08:59	10/04/24 19:20	1
Manganese	**32**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:20	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:20	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:20	1
Potassium	**960**		500	110	ug/L		10/03/24 08:59	10/04/24 19:20	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:20	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:20	1
Sodium	**5100**		200	77	ug/L		10/03/24 08:59	10/04/24 19:20	1
Strontium	**170**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:20	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:20	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:20	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:20	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:20	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**110**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			09/26/24 12:23	1
Nitrate as N (EPA 300.0)	<0.043	H3	1.0	0.043	mg/L			09/26/24 12:23	1
Chloride (EPA 300.0)	**5.4**	**B**	1.0	0.12	mg/L			09/26/24 12:23	1
Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			09/26/24 12:23	1
Fluoride (EPA 300.0)	**0.51**	**J**	1.0	0.19	mg/L			09/26/24 12:23	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			09/26/24 12:23	1
Sulfate (EPA 300.0)	**0.25**	**J**	1.0	0.21	mg/L			09/26/24 12:23	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		09/29/24 08:52	09/30/24 11:17	1
Ammonia (EPA 350.1)	<0.10	F1	0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:08	1
Phosphorus as P (EPA 365.1)	**0.027**	**J**	0.050	0.024	mg/L		09/27/24 11:00	09/27/24 17:06	1
Alkalinity (SM 2320B)	**110**	**B**	5.0	3.7	mg/L			10/07/24 13:12	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**110**	**B**	5.0	3.7	mg/L			10/07/24 13:12	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 13:12	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: SBD-01_20240924
Date Collected: 09/24/24 11:00
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-15
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	130		10	4.3	mg/L			09/30/24 00:29	1
Total Suspended Solids (SM 2540D)	9.4		5.0	1.9	mg/L			10/01/24 22:46	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/01/24 00:22	1
Total Organic Carbon (SM 5310C)	12		1.0	0.47	mg/L			10/07/24 20:05	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	12		1.0	0.47	mg/L			10/08/24 09:08	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: SBD-01_20240924-FBLL
Date Collected: 09/24/24 11:00
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-16
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/01/24 13:35	1

Client Sample ID: PNC-02_20240924

Date Collected: 09/24/24 12:50
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-17
Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		09/30/24 12:00	10/01/24 19:08	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		09/30/24 12:00	10/01/24 19:19	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.36**	**J**	0.50	0.20	ng/L			10/04/24 18:22	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.37**	**J**	0.50	0.20	ng/L			10/04/24 18:26	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.24**		0.050	0.0098	ug/L		10/02/24 10:55	10/02/24 21:10	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.24**		0.050	0.0098	ug/L		10/02/24 10:55	10/02/24 20:45	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**42**	**J**	100	25	ug/L		10/02/24 09:17	10/04/24 20:44	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:44	1
Arsenic	**0.54**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 20:44	1
Barium	**91**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 20:44	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 20:44	1
Boron	**57**	**B**	50	13	ug/L		10/02/24 09:17	10/04/24 20:44	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 20:44	1
Calcium	**47000**		200	44	ug/L		10/02/24 09:17	10/04/24 20:44	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 20:44	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 20:44	1
Copper	**4.5**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 20:44	1
Iron	**590**		100	47	ug/L		10/02/24 09:17	10/04/24 20:44	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 20:44	1
Lithium	**4.1**	**J**	10	2.5	ug/L		10/02/24 09:17	10/04/24 20:44	1
Magnesium	**11000**		200	49	ug/L		10/02/24 09:17	10/04/24 20:44	1
Manganese	**260**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 20:44	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 20:44	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 20:44	1
Potassium	**1500**		500	110	ug/L		10/02/24 09:17	10/04/24 20:44	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 20:44	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 20:44	1
Sodium	**8900**		200	77	ug/L		10/02/24 09:17	10/04/24 20:44	1
Strontium	**280**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 20:44	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 20:44	1
Tin	**2.3**	**J**	5.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:44	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 20:44	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 20:44	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-02_20240924

Date Collected: 09/24/24 12:50
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-17

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:31	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:31	1
Arsenic	**0.51**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:31	1
Barium	**89**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:31	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:31	1
Boron	**56**	**B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:31	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:31	1
Calcium	**46000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:31	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:31	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:31	1
Copper	**4.4**		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:31	1
Iron	**260**		100	47	ug/L		10/03/24 08:59	10/04/24 19:31	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:31	1
Lithium	**3.7**	**J**	10	2.5	ug/L		10/03/24 08:59	10/04/24 19:31	1
Magnesium	**11000**		200	49	ug/L		10/03/24 08:59	10/04/24 19:31	1
Manganese	**190**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:31	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:31	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:31	1
Potassium	**1500**		500	110	ug/L		10/03/24 08:59	10/04/24 19:31	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:31	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:31	1
Sodium	**8900**		200	77	ug/L		10/03/24 08:59	10/04/24 19:31	1
Strontium	**290**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:31	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:31	1
Tin	**2.1**	**J**	5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:31	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:31	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:31	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**160**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.38**	**J**	1.0	0.18	mg/L			09/26/24 11:07	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			09/26/24 11:07	1
Chloride (EPA 300.0)	**26**	**B**	1.0	0.12	mg/L			09/26/24 11:07	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/26/24 11:07	1
Fluoride (EPA 300.0)	**0.48**	**J**	1.0	0.19	mg/L			09/26/24 11:07	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/26/24 11:07	1
Sulfate (EPA 300.0)	**0.32**	**J**	1.0	0.21	mg/L			09/26/24 11:07	1
Cyanide, Total (EPA 335.4)	**0.0050**		0.0050	0.0036	mg/L		10/02/24 14:08	10/03/24 08:38	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:10	1
Phosphorus as P (EPA 365.1)	**0.031**	**J**	0.050	0.024	mg/L		09/27/24 11:00	09/27/24 17:08	1
Alkalinity (SM 2320B)	**130**	**B**	5.0	3.7	mg/L			10/07/24 13:20	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**130**	**B**	5.0	3.7	mg/L			10/07/24 13:20	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 13:20	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-02_20240924
Date Collected: 09/24/24 12:50
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-17
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	210		10	4.3	mg/L			09/30/24 00:37	1
Total Suspended Solids (SM 2540D)	3.8	J	5.0	1.9	mg/L			10/01/24 22:53	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/30/24 02:12	1
Total Organic Carbon (SM 5310C)	13		1.0	0.47	mg/L			10/07/24 21:29	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	14		1.0	0.47	mg/L			10/08/24 09:08	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-02_20240924-FBLL
Date Collected: 09/24/24 12:50
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-18
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 18:30	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MLR-02_20240924

Date Collected: 09/24/24 14:50
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-19

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		09/30/24 12:00	10/01/24 19:29	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		09/30/24 12:00	10/01/24 19:39	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.61**		0.50	0.20	ng/L			10/04/24 18:35	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.59**		0.50	0.20	ng/L			10/04/24 18:39	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.27**		0.050	0.0098	ug/L		10/02/24 10:55	10/02/24 21:14	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.27**		0.050	0.0098	ug/L		10/02/24 10:55	10/02/24 20:56	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**70**	**J**	100	25	ug/L		10/02/24 09:17	10/04/24 20:46	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:46	1
Arsenic	**0.49**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 20:46	1
Barium	**42**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 20:46	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 20:46	1
Boron	**54**	**B**	50	13	ug/L		10/02/24 09:17	10/04/24 20:46	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 20:46	1
Calcium	**34000**		200	44	ug/L		10/02/24 09:17	10/04/24 20:46	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 20:46	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 20:46	1
Copper	**30**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 20:46	1
Iron	**160**		100	47	ug/L		10/02/24 09:17	10/04/24 20:46	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 20:46	1
Lithium	<2.5		10	2.5	ug/L		10/02/24 09:17	10/04/24 20:46	1
Magnesium	**6800**		200	49	ug/L		10/02/24 09:17	10/04/24 20:46	1
Manganese	**16**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 20:46	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 20:46	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 20:46	1
Potassium	**1700**		500	110	ug/L		10/02/24 09:17	10/04/24 20:46	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 20:46	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 20:46	1
Sodium	**12000**		200	77	ug/L		10/02/24 09:17	10/04/24 20:46	1
Strontium	**80**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 20:46	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 20:46	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:46	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 20:46	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 20:46	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MLR-02_20240924

Date Collected: 09/24/24 14:50
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-19

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**40**	**J**	100	25	ug/L		10/03/24 08:59	10/04/24 19:34	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:34	1
Arsenic	**0.49**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:34	1
Barium	**42**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:34	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:34	1
Boron	**47**	**J B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:34	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:34	1
Calcium	**34000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:34	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:34	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:34	1
Copper	**29**		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:34	1
Iron	**110**		100	47	ug/L		10/03/24 08:59	10/04/24 19:34	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:34	1
Lithium	<2.5		10	2.5	ug/L		10/03/24 08:59	10/04/24 19:34	1
Magnesium	**6700**		200	49	ug/L		10/03/24 08:59	10/04/24 19:34	1
Manganese	**14**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:34	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:34	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:34	1
Potassium	**1600**		500	110	ug/L		10/03/24 08:59	10/04/24 19:34	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:34	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:34	1
Sodium	**12000**		200	77	ug/L		10/03/24 08:59	10/04/24 19:34	1
Strontium	**81**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:34	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:34	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:34	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:34	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:34	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**110**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			09/26/24 11:22	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			09/26/24 11:22	1
Chloride (EPA 300.0)	**15**	**B**	1.0	0.12	mg/L			09/26/24 11:22	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/26/24 11:22	1
Fluoride (EPA 300.0)	**0.47**	**J**	1.0	0.19	mg/L			09/26/24 11:22	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/26/24 11:22	1
Sulfate (EPA 300.0)	**2.6**		1.0	0.21	mg/L			09/26/24 11:22	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/02/24 14:08	10/03/24 08:40	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:10	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		09/27/24 11:00	09/27/24 17:09	1
Alkalinity (SM 2320B)	**110**	**B**	5.0	3.7	mg/L			10/07/24 13:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**110**	**B**	5.0	3.7	mg/L			10/07/24 13:29	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 13:29	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MLR-02_20240924
Date Collected: 09/24/24 14:50
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-19
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**160**		10	4.3	mg/L			09/30/24 00:39	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/01/24 22:55	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/30/24 02:16	1
Total Organic Carbon (SM 5310C)	**8.6**		1.0	0.47	mg/L			10/08/24 18:57	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**9.4**		1.0	0.47	mg/L			10/08/24 09:08	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MLR-02_20240924-FBLL

Date Collected: 09/24/24 14:50
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-20

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 18:43	1

Client Sample ID: PRC-01_20240924
Date Collected: 09/24/24 15:40
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-21
Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		09/30/24 12:00	10/01/24 19:49	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		09/30/24 12:00	10/01/24 19:59	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.27**	**J**	0.50	0.20	ng/L			10/04/24 18:47	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.28**	**J ^-**	0.50	0.20	ng/L			10/04/24 18:59	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.28**		0.050	0.0098	ug/L		10/02/24 10:55	10/02/24 21:18	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.28**		0.050	0.0098	ug/L		10/02/24 10:55	10/02/24 21:00	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**61**	**J**	100	25	ug/L		10/02/24 09:17	10/04/24 20:48	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:48	1
Arsenic	**0.81**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 20:48	1
Barium	**160**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 20:48	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 20:48	1
Boron	**410**	**B**	50	13	ug/L		10/02/24 09:17	10/04/24 20:48	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 20:48	1
Calcium	**88000**		200	44	ug/L		10/02/24 09:17	10/04/24 20:48	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 20:48	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 20:48	1
Copper	**4.4**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 20:48	1
Iron	**980**		100	47	ug/L		10/02/24 09:17	10/04/24 20:48	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 20:48	1
Lithium	**39**		10	2.5	ug/L		10/02/24 09:17	10/04/24 20:48	1
Magnesium	**13000**		200	49	ug/L		10/02/24 09:17	10/04/24 20:48	1
Manganese	**280**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 20:48	1
Molybdenum	**24**		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 20:48	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 20:48	1
Potassium	**5300**		500	110	ug/L		10/02/24 09:17	10/04/24 20:48	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 20:48	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 20:48	1
Sodium	**88000**		200	77	ug/L		10/02/24 09:17	10/04/24 20:48	1
Strontium	**1000**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 20:48	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 20:48	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:48	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 20:48	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 20:48	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PRC-01_20240924

Date Collected: 09/24/24 15:40
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-21

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:40	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:40	1
Arsenic	**0.68**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:40	1
Barium	**160**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:40	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:40	1
Boron	**410**	**B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:40	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:40	1
Calcium	**89000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:40	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:40	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:40	1
Copper	**2.7**		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:40	1
Iron	**230**		100	47	ug/L		10/03/24 08:59	10/04/24 19:40	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:40	1
Lithium	**40**		10	2.5	ug/L		10/03/24 08:59	10/04/24 19:40	1
Magnesium	**13000**		200	49	ug/L		10/03/24 08:59	10/04/24 19:40	1
Manganese	**260**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:40	1
Molybdenum	**24**		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:40	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:40	1
Potassium	**5300**		500	110	ug/L		10/03/24 08:59	10/04/24 19:40	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:40	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:40	1
Sodium	**89000**		200	77	ug/L		10/03/24 08:59	10/04/24 19:40	1
Strontium	**1000**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:40	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:40	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:40	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:40	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:40	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**270**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**2.1**		1.0	0.18	mg/L			09/26/24 11:37	1
Nitrate as N (EPA 300.0)	**0.46**	**J**	1.0	0.043	mg/L			09/26/24 11:37	1
Chloride (EPA 300.0)	**220**		10	1.2	mg/L			10/03/24 17:36	10
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/26/24 11:37	1
Fluoride (EPA 300.0)	**0.73**	**J**	1.0	0.19	mg/L			09/26/24 11:37	1
Nitrate Nitrite as N (EPA 300.0)	**0.46**	**J**	1.0	0.070	mg/L			09/26/24 11:37	1
Sulfate (EPA 300.0)	**22**		1.0	0.21	mg/L			09/26/24 11:37	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/02/24 14:08	10/03/24 08:41	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:11	1
Phosphorus as P (EPA 365.1)	**0.024**	**J**	0.050	0.024	mg/L		09/27/24 11:00	09/27/24 17:09	1
Alkalinity (SM 2320B)	**110**	**B**	5.0	3.7	mg/L			10/07/24 13:38	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**110**	**B**	5.0	3.7	mg/L			10/07/24 13:38	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 13:38	1
Salinity (SM 2520B)	**0.48**		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PRC-01_20240924
Date Collected: 09/24/24 15:40
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-21
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	550		10	4.3	mg/L			09/30/24 00:42	1
Total Suspended Solids (SM 2540D)	4.8	J	5.0	1.9	mg/L			10/01/24 22:57	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/30/24 02:21	1
Total Organic Carbon (SM 5310C)	5.6		1.0	0.47	mg/L			10/08/24 19:25	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	5.6		1.0	0.47	mg/L			10/08/24 09:08	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PRC-01_20240924-FBLL
Date Collected: 09/24/24 15:40
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-22
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20	^-	0.50	0.20	ng/L			10/04/24 19:04	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-03_20240924

Date Collected: 09/24/24 16:30
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-23

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		09/30/24 12:00	10/01/24 20:10	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		09/30/24 12:00	10/01/24 20:20	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.57**	**^-**	0.50	0.20	ng/L			10/04/24 19:08	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.1**	**^-**	0.50	0.20	ng/L			10/04/24 19:12	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.31**		0.050	0.0098	ug/L		10/02/24 10:55	10/02/24 21:21	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.32**		0.050	0.0098	ug/L		10/02/24 10:55	10/02/24 21:03	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**36**	**J**	100	25	ug/L		10/02/24 09:17	10/04/24 20:50	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:50	1
Arsenic	**0.47**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 20:50	1
Barium	**96**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 20:50	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 20:50	1
Boron	**41**	**J B**	50	13	ug/L		10/02/24 09:17	10/04/24 20:50	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 20:50	1
Calcium	**52000**		200	44	ug/L		10/02/24 09:17	10/04/24 20:50	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 20:50	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 20:50	1
Copper	**7.2**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 20:50	1
Iron	**340**		100	47	ug/L		10/02/24 09:17	10/04/24 20:50	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 20:50	1
Lithium	**3.7**	**J**	10	2.5	ug/L		10/02/24 09:17	10/04/24 20:50	1
Magnesium	**11000**		200	49	ug/L		10/02/24 09:17	10/04/24 20:50	1
Manganese	**45**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 20:50	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 20:50	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 20:50	1
Potassium	**2000**		500	110	ug/L		10/02/24 09:17	10/04/24 20:50	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 20:50	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 20:50	1
Sodium	**9400**		200	77	ug/L		10/02/24 09:17	10/04/24 20:50	1
Strontium	**300**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 20:50	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 20:50	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:50	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 20:50	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 20:50	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-03_20240924

Date Collected: 09/24/24 16:30
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-23

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:43	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:43	1
Arsenic	**0.47**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:43	1
Barium	**91**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:43	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:43	1
Boron	**43**	**J B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:43	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:43	1
Calcium	**51000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:43	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:43	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:43	1
Copper	**6.6**		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:43	1
Iron	**140**		100	47	ug/L		10/03/24 08:59	10/04/24 19:43	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:43	1
Lithium	**3.7**	**J**	10	2.5	ug/L		10/03/24 08:59	10/04/24 19:43	1
Magnesium	**11000**		200	49	ug/L		10/03/24 08:59	10/04/24 19:43	1
Manganese	**40**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:43	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:43	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:43	1
Potassium	**1900**		500	110	ug/L		10/03/24 08:59	10/04/24 19:43	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:43	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:43	1
Sodium	**9100**		200	77	ug/L		10/03/24 08:59	10/04/24 19:43	1
Strontium	**290**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:43	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:43	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:43	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:43	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:43	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**180**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.58**	**J**	1.0	0.18	mg/L			09/26/24 11:52	1
Nitrate as N (EPA 300.0)	**0.46**	**J**	1.0	0.043	mg/L			09/26/24 11:52	1
Chloride (EPA 300.0)	**44**	**B**	1.0	0.12	mg/L			09/26/24 11:52	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/26/24 11:52	1
Fluoride (EPA 300.0)	**0.48**	**J**	1.0	0.19	mg/L			09/26/24 11:52	1
Nitrate Nitrite as N (EPA 300.0)	**0.46**	**J**	1.0	0.070	mg/L			09/26/24 11:52	1
Sulfate (EPA 300.0)	**0.32**	**J**	1.0	0.21	mg/L			09/26/24 11:52	1
Cyanide, Total (EPA 335.4)	**0.0050**		0.0050	0.0036	mg/L		10/02/24 14:08	10/03/24 08:42	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:12	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		09/27/24 11:00	09/27/24 17:10	1
Alkalinity (SM 2320B)	**120**	**B**	5.0	3.7	mg/L			10/07/24 13:47	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**120**	**B**	5.0	3.7	mg/L			10/07/24 13:47	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 13:47	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-03_20240924
Date Collected: 09/24/24 16:30
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-23
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**250**		10	4.3	mg/L			09/30/24 00:44	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/01/24 22:59	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/30/24 02:25	1
Total Organic Carbon (SM 5310C)	**12**		1.0	0.47	mg/L			10/08/24 19:53	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**14**		1.0	0.47	mg/L			10/08/24 09:08	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-03_20240924-FBLL
Date Collected: 09/24/24 16:30
Date Received: 09/26/24 10:30

Lab Sample ID: 500-257245-24
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20	^-	0.50	0.20	ng/L			10/04/24 19:16	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: ARC-03_20240926

Date Collected: 09/26/24 08:15
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-25

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.035**	**J**	0.050	0.022	ng/L		10/02/24 10:24	10/02/24 19:30	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 21:22	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.92**		0.50	0.20	ng/L			10/07/24 15:49	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.84**		0.50	0.20	ng/L			10/07/24 15:54	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.39**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 21:13	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.36**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/09/24 12:15	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**65**	**J**	100	25	ug/L		10/02/24 09:17	10/04/24 20:53	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:53	1
Arsenic	**0.32**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 20:53	1
Barium	**72**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 20:53	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 20:53	1
Boron	**43**	**J B**	50	13	ug/L		10/02/24 09:17	10/04/24 20:53	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 20:53	1
Calcium	**26000**		200	44	ug/L		10/02/24 09:17	10/04/24 20:53	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 20:53	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 20:53	1
Copper	**3.8**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 20:53	1
Iron	**150**		100	47	ug/L		10/02/24 09:17	10/04/24 20:53	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 20:53	1
Lithium	<2.5		10	2.5	ug/L		10/02/24 09:17	10/04/24 20:53	1
Magnesium	**5700**		200	49	ug/L		10/02/24 09:17	10/04/24 20:53	1
Manganese	**26**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 20:53	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 20:53	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 20:53	1
Potassium	**1700**		500	110	ug/L		10/02/24 09:17	10/04/24 20:53	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 20:53	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 20:53	1
Sodium	**14000**		200	77	ug/L		10/02/24 09:17	10/04/24 20:53	1
Strontium	**150**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 20:53	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 20:53	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:53	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 20:53	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 20:53	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: ARC-03_20240926

Date Collected: 09/26/24 08:15
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-25

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:45	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:45	1
Arsenic	**0.25**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:45	1
Barium	**74**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:45	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:45	1
Boron	**37**	**J B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:45	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:45	1
Calcium	**27000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:45	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:45	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:45	1
Copper	**3.5**		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:45	1
Iron	**80**	**J**	100	47	ug/L		10/03/24 08:59	10/04/24 19:45	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:45	1
Lithium	<2.5		10	2.5	ug/L		10/03/24 08:59	10/04/24 19:45	1
Magnesium	**5900**		200	49	ug/L		10/03/24 08:59	10/04/24 19:45	1
Manganese	**29**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:45	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:45	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:45	1
Potassium	**1700**		500	110	ug/L		10/03/24 08:59	10/04/24 19:45	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:45	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:45	1
Sodium	**14000**		200	77	ug/L		10/03/24 08:59	10/04/24 19:45	1
Strontium	**150**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:45	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:45	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:45	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:45	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:45	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**87**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.33**	**J**	1.0	0.18	mg/L			09/27/24 14:07	1
Nitrate as N (EPA 300.0)	**0.45**	**J**	1.0	0.043	mg/L			09/27/24 14:07	1
Chloride (EPA 300.0)	**23**	**B**	1.0	0.12	mg/L			09/27/24 14:07	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/27/24 14:07	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			09/27/24 14:07	1
Nitrate Nitrite as N (EPA 300.0)	**0.45**	**J**	1.0	0.070	mg/L			09/27/24 14:07	1
Sulfate (EPA 300.0)	**1.4**		1.0	0.21	mg/L			09/27/24 14:07	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/02/24 14:08	10/03/24 08:44	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:12	1
Phosphorus as P (EPA 365.1)	**0.038**	**J**	0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:22	1
Alkalinity (SM 2320B)	**84**	**B**	5.0	3.7	mg/L			10/07/24 13:56	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**84**	**B**	5.0	3.7	mg/L			10/07/24 13:56	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 13:56	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: ARC-03_20240926
Date Collected: 09/26/24 08:15
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-25
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	120		10	4.3	mg/L			09/30/24 00:47	1
Total Suspended Solids (SM 2540D)	11		5.0	1.9	mg/L			10/03/24 23:02	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/30/24 02:30	1
Total Organic Carbon (SM 5310C)	6.8		1.0	0.47	mg/L			10/09/24 00:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	7.4		1.0	0.47	mg/L			10/08/24 09:08	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: ARC-03_20240926-FBLL

Date Collected: 09/26/24 08:15
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-26

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/07/24 15:58	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: CBR-01_20240925

Date Collected: 09/25/24 09:00
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-27

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.056**		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 19:40	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.046**	**J**	0.050	0.022	ng/L		10/02/24 10:24	10/02/24 21:32	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.76**		0.50	0.20	ng/L			10/07/24 16:10	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.58**		0.50	0.20	ng/L			10/08/24 18:06	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.36**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 21:16	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.36**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 20:44	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**60**	**J**	100	25	ug/L		10/02/24 09:17	10/04/24 20:59	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:59	1
Arsenic	**0.37**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 20:59	1
Barium	**87**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 20:59	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 20:59	1
Boron	**140**	**B**	50	13	ug/L		10/02/24 09:17	10/04/24 20:59	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 20:59	1
Calcium	**35000**		200	44	ug/L		10/02/24 09:17	10/04/24 20:59	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 20:59	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 20:59	1
Copper	**1.8**	**J**	2.0	0.50	ug/L		10/02/24 09:17	10/04/24 20:59	1
Iron	**220**		100	47	ug/L		10/02/24 09:17	10/04/24 20:59	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 20:59	1
Lithium	**3.0**	**J**	10	2.5	ug/L		10/02/24 09:17	10/04/24 20:59	1
Magnesium	**9000**		200	49	ug/L		10/02/24 09:17	10/04/24 20:59	1
Manganese	**15**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 20:59	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 20:59	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 20:59	1
Potassium	**1500**		500	110	ug/L		10/02/24 09:17	10/04/24 20:59	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 20:59	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 20:59	1
Sodium	**11000**		200	77	ug/L		10/02/24 09:17	10/04/24 20:59	1
Strontium	**170**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 20:59	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 20:59	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:59	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 20:59	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 20:59	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: CBR-01_20240925

Date Collected: 09/25/24 09:00
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-27

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:47	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:47	1
Arsenic	**0.33**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:47	1
Barium	**86**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:47	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:47	1
Boron	**130**	**B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:47	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:47	1
Calcium	**35000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:47	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:47	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:47	1
Copper	**1.5**	**J**	2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:47	1
Iron	**120**		100	47	ug/L		10/03/24 08:59	10/04/24 19:47	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:47	1
Lithium	**3.1**	**J**	10	2.5	ug/L		10/03/24 08:59	10/04/24 19:47	1
Magnesium	**8900**		200	49	ug/L		10/03/24 08:59	10/04/24 19:47	1
Manganese	**8.2**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:47	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:47	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:47	1
Potassium	**1500**		500	110	ug/L		10/03/24 08:59	10/04/24 19:47	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:47	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:47	1
Sodium	**11000**		200	77	ug/L		10/03/24 08:59	10/04/24 19:47	1
Strontium	**170**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:47	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:47	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:47	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:47	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:47	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**120**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.26**	**J**	1.0	0.18	mg/L			09/27/24 15:23	1
Nitrate as N (EPA 300.0)	<0.043	H3	1.0	0.043	mg/L			09/27/24 15:23	1
Chloride (EPA 300.0)	**23**	**B**	1.0	0.12	mg/L			09/27/24 15:23	1
Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			09/27/24 15:23	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			09/27/24 15:23	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			09/27/24 15:23	1
Sulfate (EPA 300.0)	**1.7**		1.0	0.21	mg/L			09/27/24 15:23	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/02/24 14:08	10/03/24 08:45	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:13	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:22	1
Alkalinity (SM 2320B)	**110**	**B**	5.0	3.7	mg/L			10/07/24 14:07	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**110**	**B**	5.0	3.7	mg/L			10/07/24 14:07	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 14:07	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: CBR-01_20240925
Date Collected: 09/25/24 09:00
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-27
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**180**		10	4.3	mg/L			09/30/24 00:50	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/02/24 02:39	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/30/24 02:35	1
Total Organic Carbon (SM 5310C)	**6.8**		1.0	0.47	mg/L			10/08/24 20:21	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**6.4**		1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: CBR-01_20240925-FBLL
Date Collected: 09/25/24 09:00
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-28
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/08/24 18:10	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: DKC-03_20240926

Date Collected: 09/26/24 09:45
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-29

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.056**		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 20:11	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 21:42	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.83**		0.50	0.20	ng/L			10/08/24 18:14	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.67**		0.50	0.20	ng/L			10/08/24 18:18	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.083**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 21:27	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.085**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 20:47	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**33**	**J**	100	25	ug/L		10/02/24 09:17	10/04/24 21:02	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 21:02	1
Arsenic	**0.29**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 21:02	1
Barium	**40**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 21:02	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 21:02	1
Boron	**32**	**J B**	50	13	ug/L		10/02/24 09:17	10/04/24 21:02	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 21:02	1
Calcium	**16000**		200	44	ug/L		10/02/24 09:17	10/04/24 21:02	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 21:02	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 21:02	1
Copper	**2.9**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 21:02	1
Iron	**440**		100	47	ug/L		10/02/24 09:17	10/04/24 21:02	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 21:02	1
Lithium	<2.5		10	2.5	ug/L		10/02/24 09:17	10/04/24 21:02	1
Magnesium	**3900**		200	49	ug/L		10/02/24 09:17	10/04/24 21:02	1
Manganese	**30**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 21:02	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 21:02	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 21:02	1
Potassium	**1400**		500	110	ug/L		10/02/24 09:17	10/04/24 21:02	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 21:02	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 21:02	1
Sodium	**10000**		200	77	ug/L		10/02/24 09:17	10/04/24 21:02	1
Strontium	**65**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 21:02	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 21:02	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 21:02	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 21:02	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 21:02	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: DKC-03_20240926

Date Collected: 09/26/24 09:45
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-29

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:49	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:49	1
Arsenic	**0.33**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:49	1
Barium	**39**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:49	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:49	1
Boron	**28**	**J B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:49	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:49	1
Calcium	**16000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:49	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:49	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:49	1
Copper	**2.8**		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:49	1
Iron	**250**		100	47	ug/L		10/03/24 08:59	10/04/24 19:49	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:49	1
Lithium	<2.5		10	2.5	ug/L		10/03/24 08:59	10/04/24 19:49	1
Magnesium	**3900**		200	49	ug/L		10/03/24 08:59	10/04/24 19:49	1
Manganese	**16**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:49	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:49	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:49	1
Potassium	**1400**		500	110	ug/L		10/03/24 08:59	10/04/24 19:49	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:49	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:49	1
Sodium	**10000**		200	77	ug/L		10/03/24 08:59	10/04/24 19:49	1
Strontium	**64**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:49	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:49	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:49	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:49	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:49	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**55**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			09/27/24 14:23	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			09/27/24 14:23	1
Chloride (EPA 300.0)	**11**	**B**	1.0	0.12	mg/L			09/27/24 14:23	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/27/24 14:23	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			09/27/24 14:23	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/27/24 14:23	1
Sulfate (EPA 300.0)	**0.88**	**J**	1.0	0.21	mg/L			09/27/24 14:23	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/02/24 14:08	10/03/24 08:46	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:13	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:22	1
Alkalinity (SM 2320B)	**61**	**B**	5.0	3.7	mg/L			10/07/24 14:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**61**	**B**	5.0	3.7	mg/L			10/07/24 14:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 14:16	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: DKC-03_20240926
Date Collected: 09/26/24 09:45
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-29
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**82**		10	4.3	mg/L			09/30/24 00:52	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/03/24 23:07	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/30/24 02:39	1
Total Organic Carbon (SM 5310C)	**7.6**		1.0	0.47	mg/L			10/08/24 21:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**7.7**		1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: DKC-03_20240926-FBLL
Date Collected: 09/26/24 09:45
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-30
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/08/24 18:22	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: ARC-01_20240925

Date Collected: 09/25/24 10:00
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-31

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.050**		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 20:21	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.027**	**J**	0.050	0.022	ng/L		10/02/24 10:24	10/02/24 22:13	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.77**		0.50	0.20	ng/L			10/08/24 18:27	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.50**		0.50	0.20	ng/L			10/08/24 18:31	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.049**	**J B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 21:31	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.040**	**J B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 20:51	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**80**	**J**	100	25	ug/L		10/02/24 09:17	10/04/24 21:04	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 21:04	1
Arsenic	**0.58**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 21:04	1
Barium	**30**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 21:04	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 21:04	1
Boron	**20**	**J B**	50	13	ug/L		10/02/24 09:17	10/04/24 21:04	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 21:04	1
Calcium	**32000**		200	44	ug/L		10/02/24 09:17	10/04/24 21:04	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 21:04	1
Cobalt	**0.62**	**J**	1.0	0.40	ug/L		10/02/24 09:17	10/04/24 21:04	1
Copper	**2.3**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 21:04	1
Iron	**2500**		100	47	ug/L		10/02/24 09:17	10/04/24 21:04	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 21:04	1
Lithium	<2.5		10	2.5	ug/L		10/02/24 09:17	10/04/24 21:04	1
Magnesium	**7700**		200	49	ug/L		10/02/24 09:17	10/04/24 21:04	1
Manganese	**430**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 21:04	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 21:04	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 21:04	1
Potassium	**2200**		500	110	ug/L		10/02/24 09:17	10/04/24 21:04	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 21:04	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 21:04	1
Sodium	**2800**		200	77	ug/L		10/02/24 09:17	10/04/24 21:04	1
Strontium	**73**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 21:04	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 21:04	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 21:04	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 21:04	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 21:04	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: ARC-01_20240925

Date Collected: 09/25/24 10:00
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-31

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:52	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:52	1
Arsenic	**0.28**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:52	1
Barium	**25**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:52	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:52	1
Boron	**20**	**J B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:52	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:52	1
Calcium	**31000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:52	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:52	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:52	1
Copper	**1.7**	**J**	2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:52	1
Iron	**240**		100	47	ug/L		10/03/24 08:59	10/04/24 19:52	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:52	1
Lithium	<2.5		10	2.5	ug/L		10/03/24 08:59	10/04/24 19:52	1
Magnesium	**7500**		200	49	ug/L		10/03/24 08:59	10/04/24 19:52	1
Manganese	**76**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:52	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:52	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:52	1
Potassium	**2100**		500	110	ug/L		10/03/24 08:59	10/04/24 19:52	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:52	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:52	1
Sodium	**2700**		200	77	ug/L		10/03/24 08:59	10/04/24 19:52	1
Strontium	**70**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:52	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:52	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:52	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:52	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:52	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**110**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			09/27/24 15:39	1
Nitrate as N (EPA 300.0)	<0.043	H	1.0	0.043	mg/L			09/27/24 15:39	1
Chloride (EPA 300.0)	**2.1**	**B**	1.0	0.12	mg/L			09/27/24 15:39	1
Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			09/27/24 15:39	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			09/27/24 15:39	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			09/27/24 15:39	1
Sulfate (EPA 300.0)	**0.35**	**J**	1.0	0.21	mg/L			09/27/24 15:39	1
Cyanide, Total (EPA 335.4)	**0.0040**	**J**	0.0050	0.0036	mg/L		10/02/24 14:08	10/03/24 08:48	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:13	1
Phosphorus as P (EPA 365.1)	**0.041**	**J**	0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:23	1
Alkalinity (SM 2320B)	**110**	**B**	5.0	3.7	mg/L			10/07/24 14:24	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**110**	**B**	5.0	3.7	mg/L			10/07/24 14:24	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 14:24	1
Salinity (SM 2520B)	**0.33**		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: ARC-01_20240925
Date Collected: 09/25/24 10:00
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-31
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	130		10	4.3	mg/L			09/30/24 00:55	1
Total Suspended Solids (SM 2540D)	7.6		5.0	1.9	mg/L			10/02/24 02:43	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/30/24 02:44	1
Total Organic Carbon (SM 5310C)	8.6		1.0	0.47	mg/L			10/08/24 22:14	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	7.6		1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: ARC-01_20240925-FBLL

Date Collected: 09/25/24 10:00
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-32

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/08/24 18:35	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-04_20240926

Date Collected: 09/26/24 10:45
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-33

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 20:31	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 22:23	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.42**	**J**	0.50	0.20	ng/L			10/08/24 18:47	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.41**	**J**	0.50	0.20	ng/L			10/08/24 18:51	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.34**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 21:34	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.34**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 20:55	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**27**	**J**	100	25	ug/L		10/02/24 09:17	10/04/24 21:06	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 21:06	1
Arsenic	**0.30**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 21:06	1
Barium	**80**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 21:06	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 21:06	1
Boron	**48**	**J B**	50	13	ug/L		10/02/24 09:17	10/04/24 21:06	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 21:06	1
Calcium	**48000**		200	44	ug/L		10/02/24 09:17	10/04/24 21:06	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 21:06	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 21:06	1
Copper	**4.0**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 21:06	1
Iron	**180**		100	47	ug/L		10/02/24 09:17	10/04/24 21:06	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 21:06	1
Lithium	**5.7**	**J**	10	2.5	ug/L		10/02/24 09:17	10/04/24 21:06	1
Magnesium	**8500**		200	49	ug/L		10/02/24 09:17	10/04/24 21:06	1
Manganese	**14**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 21:06	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 21:06	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 21:06	1
Potassium	**1600**		500	110	ug/L		10/02/24 09:17	10/04/24 21:06	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 21:06	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 21:06	1
Sodium	**14000**		200	77	ug/L		10/02/24 09:17	10/04/24 21:06	1
Strontium	**410**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 21:06	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 21:06	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 21:06	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 21:06	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 21:06	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-04_20240926

Date Collected: 09/26/24 10:45
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-33

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:54	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:54	1
Arsenic	**0.30**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:54	1
Barium	**78**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:54	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:54	1
Boron	**43**	**J B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:54	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:54	1
Calcium	**48000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:54	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:54	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:54	1
Copper	**3.9**		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:54	1
Iron	**94**	**J**	100	47	ug/L		10/03/24 08:59	10/04/24 19:54	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:54	1
Lithium	**6.1**	**J**	10	2.5	ug/L		10/03/24 08:59	10/04/24 19:54	1
Magnesium	**8400**		200	49	ug/L		10/03/24 08:59	10/04/24 19:54	1
Manganese	**9.9**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:54	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:54	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:54	1
Potassium	**1600**		500	110	ug/L		10/03/24 08:59	10/04/24 19:54	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:54	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:54	1
Sodium	**14000**		200	77	ug/L		10/03/24 08:59	10/04/24 19:54	1
Strontium	**420**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:54	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:54	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:54	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:54	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:54	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**160**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.63**	**J**	1.0	0.18	mg/L			09/27/24 14:38	1
Nitrate as N (EPA 300.0)	**0.44**	**J**	1.0	0.043	mg/L			09/27/24 14:38	1
Chloride (EPA 300.0)	**53**		5.0	0.58	mg/L			10/03/24 17:51	5
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/27/24 14:38	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			09/27/24 14:38	1
Nitrate Nitrite as N (EPA 300.0)	**0.44**	**J**	1.0	0.070	mg/L			09/27/24 14:38	1
Sulfate (EPA 300.0)	**0.87**	**J**	1.0	0.21	mg/L			09/27/24 14:38	1
Cyanide, Total (EPA 335.4)	**0.0040**	**J B**	0.0050	0.0036	mg/L		10/06/24 11:29	10/07/24 11:27	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:14	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:23	1
Alkalinity (SM 2320B)	**100**	**B**	5.0	3.7	mg/L			10/07/24 14:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**100**	**B**	5.0	3.7	mg/L			10/07/24 14:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 14:32	1
Salinity (SM 2520B)	**0.48**		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-04_20240926
Date Collected: 09/26/24 10:45
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-33
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**250**		10	4.3	mg/L			09/30/24 00:57	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/03/24 23:11	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/30/24 02:48	1
Total Organic Carbon (SM 5310C)	**7.5**		1.0	0.47	mg/L			10/08/24 23:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**7.4**		1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-04_20240926-FBLL
Date Collected: 09/26/24 10:45
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-34
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/08/24 18:56	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: ARC-02_20240925

Date Collected: 09/25/24 11:30
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-35

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.15**		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 20:41	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.089**		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 22:33	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.4**		0.50	0.20	ng/L			10/08/24 19:00	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.2**		0.50	0.20	ng/L			10/08/24 19:04	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.074**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 21:38	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.067**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 20:58	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**130**		100	25	ug/L		10/02/24 09:17	10/04/24 21:08	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 21:08	1
Arsenic	**0.52**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 21:08	1
Barium	**30**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 21:08	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 21:08	1
Boron	**28**	**J B**	50	13	ug/L		10/02/24 09:17	10/04/24 21:08	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 21:08	1
Calcium	**18000**		200	44	ug/L		10/02/24 09:17	10/04/24 21:08	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 21:08	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 21:08	1
Copper	**6.9**		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 21:08	1
Iron	**760**		100	47	ug/L		10/02/24 09:17	10/04/24 21:08	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 21:08	1
Lithium	<2.5		10	2.5	ug/L		10/02/24 09:17	10/04/24 21:08	1
Magnesium	**3800**		200	49	ug/L		10/02/24 09:17	10/04/24 21:08	1
Manganese	**44**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 21:08	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 21:08	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 21:08	1
Potassium	**1400**		500	110	ug/L		10/02/24 09:17	10/04/24 21:08	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 21:08	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 21:08	1
Sodium	**2000**		200	77	ug/L		10/02/24 09:17	10/04/24 21:08	1
Strontium	**68**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 21:08	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 21:08	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 21:08	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 21:08	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 21:08	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: ARC-02_20240925

Date Collected: 09/25/24 11:30
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-35

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**34**	**J**	100	25	ug/L		10/03/24 08:59	10/04/24 19:56	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:56	1
Arsenic	**0.49**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:56	1
Barium	**27**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:56	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:56	1
Boron	**26**	**J B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:56	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:56	1
Calcium	**17000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:56	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:56	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:56	1
Copper	**6.1**		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:56	1
Iron	**420**		100	47	ug/L		10/03/24 08:59	10/04/24 19:56	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:56	1
Lithium	<2.5		10	2.5	ug/L		10/03/24 08:59	10/04/24 19:56	1
Magnesium	**3700**		200	49	ug/L		10/03/24 08:59	10/04/24 19:56	1
Manganese	**18**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:56	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:56	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:56	1
Potassium	**1300**		500	110	ug/L		10/03/24 08:59	10/04/24 19:56	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:56	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:56	1
Sodium	**2000**		200	77	ug/L		10/03/24 08:59	10/04/24 19:56	1
Strontium	**66**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:56	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:56	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:56	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:56	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:56	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**60**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			09/27/24 15:54	1
Nitrate as N (EPA 300.0)	<0.043	H	1.0	0.043	mg/L			09/27/24 15:54	1
Chloride (EPA 300.0)	**1.7**	**B**	1.0	0.12	mg/L			09/27/24 15:54	1
Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			09/27/24 15:54	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			09/27/24 15:54	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			09/27/24 15:54	1
Sulfate (EPA 300.0)	**2.4**		1.0	0.21	mg/L			09/27/24 15:54	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/02/24 14:08	10/03/24 08:49	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:14	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:24	1
Alkalinity (SM 2320B)	**57**	**B**	5.0	3.7	mg/L			10/07/24 14:41	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**57**	**B**	5.0	3.7	mg/L			10/07/24 14:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 14:41	1
Salinity (SM 2520B)	**0.48**		0.33	0.33	psu			09/30/24 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: ARC-02_20240925
Date Collected: 09/25/24 11:30
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-35
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	64		10	4.3	mg/L			09/30/24 01:00	1
Total Suspended Solids (SM 2540D)	3.8	J	5.0	1.9	mg/L			10/02/24 02:46	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			09/30/24 02:53	1
Total Organic Carbon (SM 5310C)	13		1.0	0.47	mg/L			10/09/24 00:06	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	12		1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: ARC-02_20240925-FBLL

Date Collected: 09/25/24 11:30
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-36

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/08/24 19:08	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MW-43_20240925

Date Collected: 09/25/24 14:00
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-37
Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 20:51	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 22:44	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.26**	**J**	0.50	0.20	ng/L			10/08/24 19:12	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**	**J**	0.50	0.20	ng/L			10/08/24 19:16	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**67**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 21:42	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**66**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 21:02	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**99**	**J**	100	25	ug/L		10/02/24 09:17	10/04/24 21:11	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 21:11	1
Arsenic	**0.67**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 21:11	1
Barium	**210**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 21:11	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 21:11	1
Boron	**78**	**B**	50	13	ug/L		10/02/24 09:17	10/04/24 21:11	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 21:11	1
Calcium	**21000**		200	44	ug/L		10/02/24 09:17	10/04/24 21:11	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 21:11	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 21:11	1
Copper	**0.70**	**J**	2.0	0.50	ug/L		10/02/24 09:17	10/04/24 21:11	1
Iron	**110**		100	47	ug/L		10/02/24 09:17	10/04/24 21:11	1
Lead	**0.41**	**J**	0.50	0.19	ug/L		10/02/24 09:17	10/04/24 21:11	1
Lithium	**48**		10	2.5	ug/L		10/02/24 09:17	10/04/24 21:11	1
Magnesium	**1300**		200	49	ug/L		10/02/24 09:17	10/04/24 21:11	1
Manganese	**600**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 21:11	1
Molybdenum	**7.2**		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 21:11	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 21:11	1
Potassium	**260**	**J**	500	110	ug/L		10/02/24 09:17	10/04/24 21:11	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 21:11	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 21:11	1
Sodium	**100000**		200	77	ug/L		10/02/24 09:17	10/04/24 21:11	1
Strontium	**380**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 21:11	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 21:11	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 21:11	1
Vanadium	**20**		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 21:11	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 21:11	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MW-43_20240925

Date Collected: 09/25/24 14:00
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-37

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 19:58	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:58	1
Arsenic	**0.62**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 19:58	1
Barium	**170**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 19:58	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 19:58	1
Boron	**75**	**B**	50	13	ug/L		10/03/24 08:59	10/04/24 19:58	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 19:58	1
Calcium	**20000**		200	44	ug/L		10/03/24 08:59	10/04/24 19:58	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 19:58	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 19:58	1
Copper	**0.51**	**J**	2.0	0.50	ug/L		10/03/24 08:59	10/04/24 19:58	1
Iron	<47		100	47	ug/L		10/03/24 08:59	10/04/24 19:58	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 19:58	1
Lithium	**47**		10	2.5	ug/L		10/03/24 08:59	10/04/24 19:58	1
Magnesium	**1300**		200	49	ug/L		10/03/24 08:59	10/04/24 19:58	1
Manganese	**58**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 19:58	1
Molybdenum	**7.1**		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 19:58	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 19:58	1
Potassium	**240**	**J**	500	110	ug/L		10/03/24 08:59	10/04/24 19:58	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 19:58	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 19:58	1
Sodium	**100000**		200	77	ug/L		10/03/24 08:59	10/04/24 19:58	1
Strontium	**380**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 19:58	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 19:58	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 19:58	1
Vanadium	**16**		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 19:58	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 19:58	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**57**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			09/27/24 12:36	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			09/27/24 12:36	1
Chloride (EPA 300.0)	**1.4**	**B**	1.0	0.12	mg/L			09/27/24 12:36	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/27/24 12:36	1
Fluoride (EPA 300.0)	**0.61**	**J**	1.0	0.19	mg/L			09/27/24 12:36	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/27/24 12:36	1
Sulfate (EPA 300.0)	**9.2**		1.0	0.21	mg/L			09/27/24 12:36	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/02/24 14:08	10/03/24 08:49	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:15	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:25	1
Alkalinity (SM 2320B)	**250**	**B**	5.0	3.7	mg/L			10/07/24 14:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**250**	**B**	5.0	3.7	mg/L			10/07/24 14:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 14:49	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/03/24 07:24	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MW-43_20240925
Date Collected: 09/25/24 14:00
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-37
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**280**		10	4.3	mg/L			09/30/24 01:02	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/02/24 02:50	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/01/24 00:34	1
Total Organic Carbon (SM 5310C)	**0.75**	**J**	1.0	0.47	mg/L			10/09/24 01:03	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**0.90**	**J**	1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MW-43_20240925-FBLL
Date Collected: 09/25/24 14:00
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-38
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/08/24 19:20	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MW-44_20240925

Date Collected: 09/25/24 15:20
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-39

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 21:02	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 22:54	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.41**	**J**	0.50	0.20	ng/L			10/08/24 19:25	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.24**	**J**	0.50	0.20	ng/L			10/08/24 19:37	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**9.4**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 21:45	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**12**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 21:05	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**380**		100	25	ug/L		10/02/24 09:17	10/04/24 21:13	1
Antimony	**2.7**	**J ^1+**	3.0	1.3	ug/L		10/02/24 09:17	10/08/24 12:58	1
Arsenic	**0.64**	**J**	1.0	0.23	ug/L		10/02/24 09:17	10/04/24 21:13	1
Barium	**240**		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 21:13	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 21:13	1
Boron	**240**	**B**	50	13	ug/L		10/02/24 09:17	10/04/24 21:13	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 21:13	1
Calcium	**33000**		200	44	ug/L		10/02/24 09:17	10/04/24 21:13	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 21:13	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 21:13	1
Copper	**1.6**	**J**	2.0	0.50	ug/L		10/02/24 09:17	10/04/24 21:13	1
Iron	**380**		100	47	ug/L		10/02/24 09:17	10/04/24 21:13	1
Lead	**85**		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 21:13	1
Lithium	**33**		10	2.5	ug/L		10/02/24 09:17	10/04/24 21:13	1
Magnesium	**7700**		200	49	ug/L		10/02/24 09:17	10/04/24 21:13	1
Manganese	**230**	**B**	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 21:13	1
Molybdenum	**75**		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 21:13	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 21:13	1
Potassium	**980**		500	110	ug/L		10/02/24 09:17	10/04/24 21:13	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 21:13	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 21:13	1
Sodium	**110000**		200	77	ug/L		10/02/24 09:17	10/04/24 21:13	1
Strontium	**640**		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 21:13	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 21:13	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 21:13	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 21:13	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 21:13	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MW-44_20240925

Date Collected: 09/25/24 15:20
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-39

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 20:01	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 20:01	1
Arsenic	**0.43**	**J**	1.0	0.23	ug/L		10/03/24 08:59	10/04/24 20:01	1
Barium	**290**		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 20:01	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 20:01	1
Boron	**220**	**B**	50	13	ug/L		10/03/24 08:59	10/04/24 20:01	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 20:01	1
Calcium	**40000**		200	44	ug/L		10/03/24 08:59	10/04/24 20:01	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 20:01	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 20:01	1
Copper	<0.50		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 20:01	1
Iron	**65**	**J**	100	47	ug/L		10/03/24 08:59	10/04/24 20:01	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 20:01	1
Lithium	**33**		10	2.5	ug/L		10/03/24 08:59	10/04/24 20:01	1
Magnesium	**9300**		200	49	ug/L		10/03/24 08:59	10/04/24 20:01	1
Manganese	**270**		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 20:01	1
Molybdenum	**49**		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 20:01	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 20:01	1
Potassium	**980**		500	110	ug/L		10/03/24 08:59	10/04/24 20:01	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 20:01	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 20:01	1
Sodium	**96000**		200	77	ug/L		10/03/24 08:59	10/04/24 20:01	1
Strontium	**770**		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 20:01	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 20:01	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 20:01	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 20:01	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 20:01	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**120**		0.91	0.46	mg/L		10/02/24 09:17	10/07/24 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.88**	**J**	1.0	0.18	mg/L			09/27/24 13:37	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			09/27/24 13:37	1
Chloride (EPA 300.0)	**67**		5.0	0.58	mg/L			10/03/24 18:07	5
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/27/24 13:37	1
Fluoride (EPA 300.0)	**1.2**		1.0	0.19	mg/L			09/27/24 13:37	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/27/24 13:37	1
Sulfate (EPA 300.0)	**25**		1.0	0.21	mg/L			09/27/24 13:37	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/02/24 14:08	10/03/24 08:50	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:15	1
Phosphorus as P (EPA 365.1)	**0.038**	**J**	0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:25	1
Alkalinity (SM 2320B)	**210**	**B**	5.0	3.7	mg/L			10/07/24 15:07	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**210**	**B**	5.0	3.7	mg/L			10/07/24 15:07	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 15:07	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/03/24 07:24	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MW-44_20240925
Date Collected: 09/25/24 15:20
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-39
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	360		10	4.3	mg/L			09/30/24 01:05	1
Total Suspended Solids (SM 2540D)	7.8		5.0	1.9	mg/L			10/02/24 02:54	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/01/24 00:39	1
Total Organic Carbon (SM 5310C)	0.97	J	1.0	0.47	mg/L			10/09/24 01:31	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	1.1		1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MW-44_20240925-FBLL

Date Collected: 09/25/24 15:20
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-40

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/08/24 19:41	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: DKC-02_20240925

Date Collected: 09/25/24 17:45
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-41

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.049**	**J**	0.050	0.022	ng/L		10/02/24 10:24	10/02/24 21:12	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.045**	**J**	0.050	0.022	ng/L		10/02/24 10:24	10/02/24 23:04	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.87**		0.50	0.20	ng/L			10/08/24 19:45	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.91**		0.50	0.20	ng/L			10/08/24 19:50	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.30**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 20:04	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.29**	**B**	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 21:09	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**30**	**J**	100	25	ug/L		10/03/24 09:00	10/07/24 13:04	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 09:00	10/07/24 13:04	1
Arsenic	**0.36**	**J**	1.0	0.23	ug/L		10/03/24 09:00	10/07/24 13:04	1
Barium	**43**		2.5	0.73	ug/L		10/03/24 09:00	10/07/24 13:04	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 09:00	10/07/24 13:04	1
Boron	**35**	**J B**	50	13	ug/L		10/03/24 09:00	10/07/24 13:04	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 09:00	10/07/24 13:04	1
Calcium	**18000**		200	44	ug/L		10/03/24 09:00	10/07/24 13:04	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 09:00	10/07/24 13:04	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 09:00	10/07/24 13:04	1
Copper	**2.8**		2.0	0.50	ug/L		10/03/24 09:00	10/07/24 13:04	1
Iron	**430**		100	47	ug/L		10/03/24 09:00	10/07/24 13:04	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 09:00	10/07/24 13:04	1
Lithium	<2.5		10	2.5	ug/L		10/03/24 09:00	10/07/24 13:04	1
Magnesium	**5000**		200	49	ug/L		10/03/24 09:00	10/07/24 13:04	1
Manganese	**14**		2.5	0.79	ug/L		10/03/24 09:00	10/07/24 13:04	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 09:00	10/07/24 13:04	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 09:00	10/07/24 13:04	1
Potassium	**1300**		500	110	ug/L		10/03/24 09:00	10/07/24 13:04	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 09:00	10/07/24 13:04	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 09:00	10/07/24 13:04	1
Sodium	**4700**		200	77	ug/L		10/03/24 09:00	10/07/24 13:04	1
Strontium	**78**		4.0	0.64	ug/L		10/03/24 09:00	10/07/24 13:04	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 09:00	10/07/24 13:04	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 09:00	10/07/24 13:04	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 09:00	10/07/24 13:04	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 09:00	10/07/24 13:04	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: DKC-02_20240925

Date Collected: 09/25/24 17:45
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-41

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**32**	**J**	100	25	ug/L		10/03/24 09:00	10/07/24 13:06	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 09:00	10/07/24 13:06	1
Arsenic	**0.37**	**J**	1.0	0.23	ug/L		10/03/24 09:00	10/07/24 13:06	1
Barium	**42**		2.5	0.73	ug/L		10/03/24 09:00	10/07/24 13:06	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 09:00	10/07/24 13:06	1
Boron	**31**	**J B**	50	13	ug/L		10/03/24 09:00	10/07/24 13:06	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 09:00	10/07/24 13:06	1
Calcium	**18000**		200	44	ug/L		10/03/24 09:00	10/07/24 13:06	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 09:00	10/07/24 13:06	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 09:00	10/07/24 13:06	1
Copper	**2.8**		2.0	0.50	ug/L		10/03/24 09:00	10/07/24 13:06	1
Iron	**390**		100	47	ug/L		10/03/24 09:00	10/07/24 13:06	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 09:00	10/07/24 13:06	1
Lithium	<2.5		10	2.5	ug/L		10/03/24 09:00	10/07/24 13:06	1
Magnesium	**5000**		200	49	ug/L		10/03/24 09:00	10/07/24 13:06	1
Manganese	**12**		2.5	0.79	ug/L		10/03/24 09:00	10/07/24 13:06	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 09:00	10/07/24 13:06	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 09:00	10/07/24 13:06	1
Potassium	**1300**		500	110	ug/L		10/03/24 09:00	10/07/24 13:06	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 09:00	10/07/24 13:06	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 09:00	10/07/24 13:06	1
Sodium	**4700**		200	77	ug/L		10/03/24 09:00	10/07/24 13:06	1
Strontium	**78**		4.0	0.64	ug/L		10/03/24 09:00	10/07/24 13:06	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 09:00	10/07/24 13:06	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 09:00	10/07/24 13:06	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 09:00	10/07/24 13:06	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 09:00	10/07/24 13:06	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**67**		0.91	0.46	mg/L		10/03/24 09:00	10/08/24 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			09/27/24 13:52	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			09/27/24 13:52	1
Chloride (EPA 300.0)	**2.6**	**B**	1.0	0.12	mg/L			09/27/24 13:52	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/27/24 13:52	1
Fluoride (EPA 300.0)	**0.48**	**J**	1.0	0.19	mg/L			09/27/24 13:52	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			09/27/24 13:52	1
Sulfate (EPA 300.0)	**0.89**	**J**	1.0	0.21	mg/L			09/27/24 13:52	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/02/24 14:08	10/03/24 08:50	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:16	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:26	1
Alkalinity (SM 2320B)	**74**	**B**	5.0	3.7	mg/L			10/07/24 15:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**74**	**B**	5.0	3.7	mg/L			10/07/24 15:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/07/24 15:16	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/03/24 07:24	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: DKC-02_20240925
Date Collected: 09/25/24 17:45
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-41
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	78		10	4.3	mg/L			09/30/24 01:08	1
Total Suspended Solids (SM 2540D)	2.2	J	5.0	1.9	mg/L			10/02/24 02:57	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/01/24 00:43	1
Total Organic Carbon (SM 5310C)	8.3		1.0	0.47	mg/L			10/09/24 01:59	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	8.4		1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: DKC-02_20240925-FBLL
Date Collected: 09/25/24 17:45
Date Received: 09/27/24 09:00

Lab Sample ID: 500-257245-42
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/08/24 19:54	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Qualifiers

Metals

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 2879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Dissolved	Water	1638	
500-257245-1	PNC-01_20240923	Total Recoverable	Water	1638	
500-257245-3	DUP-01-SW_20240923	Dissolved	Water	1638	
500-257245-3	DUP-01-SW_20240923	Total Recoverable	Water	1638	
500-257245-5	PRC-02_20240923	Dissolved	Water	1638	
500-257245-5	PRC-02_20240923	Total Recoverable	Water	1638	
500-257245-7	MLR-03_20240923	Dissolved	Water	1638	
500-257245-7	MLR-03_20240923	Total Recoverable	Water	1638	
500-257245-9	NTC-01_20240923	Dissolved	Water	1638	
500-257245-9	NTC-01_20240923	Total Recoverable	Water	1638	
500-257245-11	MLR-01_20240923	Dissolved	Water	1638	
500-257245-11	MLR-01_20240923	Total Recoverable	Water	1638	
MB 350-2879/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2879/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2879/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2879/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-257245-1 MS	PNC-01_20240923	Dissolved	Water	1638	
500-257245-1 MSD	PNC-01_20240923	Dissolved	Water	1638	

Prep Batch: 2895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-5	PRC-02_20240923	Dissolved	Water	1630	
500-257245-7	MLR-03_20240923	Dissolved	Water	1630	
500-257245-7	MLR-03_20240923	Total/NA	Water	1630	
500-257245-9	NTC-01_20240923	Dissolved	Water	1630	
500-257245-9	NTC-01_20240923	Total/NA	Water	1630	
500-257245-11	MLR-01_20240923	Dissolved	Water	1630	
500-257245-11	MLR-01_20240923	Total/NA	Water	1630	
500-257245-17	PNC-02_20240924	Dissolved	Water	1630	
500-257245-17	PNC-02_20240924	Total/NA	Water	1630	
500-257245-19	MLR-02_20240924	Dissolved	Water	1630	
500-257245-19	MLR-02_20240924	Total/NA	Water	1630	
500-257245-21	PRC-01_20240924	Dissolved	Water	1630	
500-257245-21	PRC-01_20240924	Total/NA	Water	1630	
500-257245-23	PNC-03_20240924	Dissolved	Water	1630	
500-257245-23	PNC-03_20240924	Total/NA	Water	1630	
MB 350-2895/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2895/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2895/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2895/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2895/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 2897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total Recoverable	Water	1638	2879
500-257245-3	DUP-01-SW_20240923	Dissolved	Water	1638	2879
500-257245-3	DUP-01-SW_20240923	Total Recoverable	Water	1638	2879
500-257245-5	PRC-02_20240923	Dissolved	Water	1638	2879
500-257245-5	PRC-02_20240923	Total Recoverable	Water	1638	2879
500-257245-7	MLR-03_20240923	Dissolved	Water	1638	2879
500-257245-7	MLR-03_20240923	Total Recoverable	Water	1638	2879

Metals (Continued)

Analysis Batch: 2897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-9	NTC-01_20240923	Dissolved	Water	1638	2879
500-257245-9	NTC-01_20240923	Total Recoverable	Water	1638	2879
500-257245-11	MLR-01_20240923	Dissolved	Water	1638	2879
500-257245-11	MLR-01_20240923	Total Recoverable	Water	1638	2879
MB 350-2879/1-A	Method Blank	Total Recoverable	Water	1638	2879
MB 350-2879/2-A	Method Blank	Total Recoverable	Water	1638	2879
LCS 350-2879/3-A	Lab Control Sample	Total Recoverable	Water	1638	2879
LCSD 350-2879/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2879
500-257245-1 MS	PNC-01_20240923	Dissolved	Water	1638	2879
500-257245-1 MSD	PNC-01_20240923	Dissolved	Water	1638	2879

Prep Batch: 2913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-15	SBD-01_20240924	Dissolved	Water	1630	
500-257245-15	SBD-01_20240924	Total/NA	Water	1630	
500-257245-25	ARC-03_20240926	Dissolved	Water	1630	
500-257245-25	ARC-03_20240926	Total/NA	Water	1630	
500-257245-27	CBR-01_20240925	Dissolved	Water	1630	
500-257245-27	CBR-01_20240925	Total/NA	Water	1630	
500-257245-29	DKC-03_20240926	Dissolved	Water	1630	
500-257245-29	DKC-03_20240926	Total/NA	Water	1630	
500-257245-31	ARC-01_20240925	Dissolved	Water	1630	
500-257245-31	ARC-01_20240925	Total/NA	Water	1630	
500-257245-33	PNC-04_20240926	Dissolved	Water	1630	
500-257245-33	PNC-04_20240926	Total/NA	Water	1630	
500-257245-35	ARC-02_20240925	Dissolved	Water	1630	
500-257245-35	ARC-02_20240925	Total/NA	Water	1630	
500-257245-37	MW-43_20240925	Dissolved	Water	1630	
500-257245-37	MW-43_20240925	Total/NA	Water	1630	
500-257245-39	MW-44_20240925	Dissolved	Water	1630	
500-257245-39	MW-44_20240925	Total/NA	Water	1630	
500-257245-41	DKC-02_20240925	Dissolved	Water	1630	
500-257245-41	DKC-02_20240925	Total/NA	Water	1630	
MB 350-2913/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2913/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2913/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2913/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2913/5-A	Lab Control Sample Dup	Total/NA	Water	1630	
500-257245-15 MS	SBD-01_20240924	Dissolved	Water	1630	
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	1630	
500-257245-15 MSD	SBD-01_20240924	Dissolved	Water	1630	
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	1630	

Prep Batch: 2915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-13	SBW-01_20240924	Dissolved	Water	1638	
500-257245-13	SBW-01_20240924	Total Recoverable	Water	1638	
500-257245-15	SBD-01_20240924	Dissolved	Water	1638	
500-257245-15	SBD-01_20240924	Total Recoverable	Water	1638	
500-257245-17	PNC-02_20240924	Dissolved	Water	1638	
500-257245-17	PNC-02_20240924	Total Recoverable	Water	1638	

Metals (Continued)

Prep Batch: 2915 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-19	MLR-02_20240924	Dissolved	Water	1638	
500-257245-19	MLR-02_20240924	Total Recoverable	Water	1638	
500-257245-21	PRC-01_20240924	Dissolved	Water	1638	
500-257245-21	PRC-01_20240924	Total Recoverable	Water	1638	
500-257245-23	PNC-03_20240924	Dissolved	Water	1638	
500-257245-23	PNC-03_20240924	Total Recoverable	Water	1638	
MB 350-2915/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2915/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2915/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2915/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-257245-15 MS	SBD-01_20240924	Dissolved	Water	1638	
500-257245-15 MS	SBD-01_20240924	Total Recoverable	Water	1638	
500-257245-15 MSD	SBD-01_20240924	Dissolved	Water	1638	
500-257245-15 MSD	SBD-01_20240924	Total Recoverable	Water	1638	

Analysis Batch: 2922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total/NA	Water	1631E	
500-257245-15	SBD-01_20240924	Dissolved	Water	1631E	
500-257245-15	SBD-01_20240924	Total/NA	Water	1631E	
500-257245-16	SBD-01_20240924-FBLL	Total/NA	Water	1631E	
MB 350-2922/17	Method Blank	Total/NA	Water	1631E	
MB 350-2922/18	Method Blank	Total/NA	Water	1631E	
MB 350-2922/19	Method Blank	Total/NA	Water	1631E	
MB 350-2922/20	Method Blank	Total/NA	Water	1631E	
MB 350-2922/23	Method Blank	Total/NA	Water	1631E	
MB 350-2922/24	Method Blank	Total/NA	Water	1631E	
LCS 350-2922/28	Lab Control Sample	Total/NA	Water	1631E	
LCS 350-2922/30	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2922/29	Lab Control Sample Dup	Total/NA	Water	1631E	
LCSD 350-2922/31	Lab Control Sample Dup	Total/NA	Water	1631E	
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	1631E	
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	1631E	
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	1631E	
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	1631E	
500-257245-16 MS	SBD-01_20240924-FBLL	Total/NA	Water	1631E	
500-257245-16 MSD	SBD-01_20240924-FBLL	Total/NA	Water	1631E	

Analysis Batch: 2935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-5	PRC-02_20240923	Dissolved	Water	1630	2895
500-257245-7	MLR-03_20240923	Dissolved	Water	1630	2895
500-257245-7	MLR-03_20240923	Total/NA	Water	1630	2895
500-257245-9	NTC-01_20240923	Dissolved	Water	1630	2895
500-257245-9	NTC-01_20240923	Total/NA	Water	1630	2895
500-257245-11	MLR-01_20240923	Dissolved	Water	1630	2895
500-257245-11	MLR-01_20240923	Total/NA	Water	1630	2895
500-257245-17	PNC-02_20240924	Dissolved	Water	1630	2895
500-257245-17	PNC-02_20240924	Total/NA	Water	1630	2895
500-257245-19	MLR-02_20240924	Dissolved	Water	1630	2895
500-257245-19	MLR-02_20240924	Total/NA	Water	1630	2895

Metals (Continued)

Analysis Batch: 2935 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-21	PRC-01_20240924	Dissolved	Water	1630	2895
500-257245-21	PRC-01_20240924	Total/NA	Water	1630	2895
500-257245-23	PNC-03_20240924	Dissolved	Water	1630	2895
500-257245-23	PNC-03_20240924	Total/NA	Water	1630	2895
MB 350-2895/1-A	Method Blank	Total/NA	Water	1630	2895
MB 350-2895/2-A	Method Blank	Total/NA	Water	1630	2895
MB 350-2895/3-A	Method Blank	Total/NA	Water	1630	2895
LCS 350-2895/4-A	Lab Control Sample	Total/NA	Water	1630	2895
LCSD 350-2895/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2895

Analysis Batch: 2937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-15	SBD-01_20240924	Dissolved	Water	1630	2913
500-257245-15	SBD-01_20240924	Total/NA	Water	1630	2913
500-257245-25	ARC-03_20240926	Dissolved	Water	1630	2913
500-257245-25	ARC-03_20240926	Total/NA	Water	1630	2913
500-257245-27	CBR-01_20240925	Dissolved	Water	1630	2913
500-257245-27	CBR-01_20240925	Total/NA	Water	1630	2913
500-257245-29	DKC-03_20240926	Dissolved	Water	1630	2913
500-257245-29	DKC-03_20240926	Total/NA	Water	1630	2913
500-257245-31	ARC-01_20240925	Dissolved	Water	1630	2913
500-257245-31	ARC-01_20240925	Total/NA	Water	1630	2913
500-257245-33	PNC-04_20240926	Dissolved	Water	1630	2913
500-257245-33	PNC-04_20240926	Total/NA	Water	1630	2913
500-257245-35	ARC-02_20240925	Dissolved	Water	1630	2913
500-257245-35	ARC-02_20240925	Total/NA	Water	1630	2913
500-257245-37	MW-43_20240925	Dissolved	Water	1630	2913
500-257245-37	MW-43_20240925	Total/NA	Water	1630	2913
500-257245-39	MW-44_20240925	Dissolved	Water	1630	2913
500-257245-39	MW-44_20240925	Total/NA	Water	1630	2913
500-257245-41	DKC-02_20240925	Dissolved	Water	1630	2913
500-257245-41	DKC-02_20240925	Total/NA	Water	1630	2913
MB 350-2913/1-A	Method Blank	Total/NA	Water	1630	2913
MB 350-2913/2-A	Method Blank	Total/NA	Water	1630	2913
MB 350-2913/3-A	Method Blank	Total/NA	Water	1630	2913
LCS 350-2913/4-A	Lab Control Sample	Total/NA	Water	1630	2913
LCSD 350-2913/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2913
500-257245-15 MS	SBD-01_20240924	Dissolved	Water	1630	2913
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	1630	2913
500-257245-15 MSD	SBD-01_20240924	Dissolved	Water	1630	2913
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	1630	2913

Analysis Batch: 2943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Dissolved	Water	1638	2879
500-257245-13	SBW-01_20240924	Dissolved	Water	1638	2915
500-257245-13	SBW-01_20240924	Total Recoverable	Water	1638	2915
500-257245-15	SBD-01_20240924	Dissolved	Water	1638	2915
500-257245-15	SBD-01_20240924	Total Recoverable	Water	1638	2915
500-257245-17	PNC-02_20240924	Dissolved	Water	1638	2915
500-257245-17	PNC-02_20240924	Total Recoverable	Water	1638	2915

Metals (Continued)

Analysis Batch: 2943 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-19	MLR-02_20240924	Dissolved	Water	1638	2915
500-257245-19	MLR-02_20240924	Total Recoverable	Water	1638	2915
500-257245-21	PRC-01_20240924	Dissolved	Water	1638	2915
500-257245-21	PRC-01_20240924	Total Recoverable	Water	1638	2915
500-257245-23	PNC-03_20240924	Dissolved	Water	1638	2915
500-257245-23	PNC-03_20240924	Total Recoverable	Water	1638	2915
MB 350-2915/1-A	Method Blank	Total Recoverable	Water	1638	2915
MB 350-2915/2-A	Method Blank	Total Recoverable	Water	1638	2915
LCS 350-2915/3-A	Lab Control Sample	Total Recoverable	Water	1638	2915
LCSD 350-2915/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2915
500-257245-15 MS	SBD-01_20240924	Dissolved	Water	1638	2915
500-257245-15 MS	SBD-01_20240924	Total Recoverable	Water	1638	2915
500-257245-15 MSD	SBD-01_20240924	Dissolved	Water	1638	2915
500-257245-15 MSD	SBD-01_20240924	Total Recoverable	Water	1638	2915

Prep Batch: 2953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Dissolved	Water	1630	
500-257245-1	PNC-01_20240923	Total/NA	Water	1630	
500-257245-3	DUP-01-SW_20240923	Dissolved	Water	1630	
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	1630	
500-257245-5	PRC-02_20240923	Total/NA	Water	1630	
500-257245-13	SBW-01_20240924	Dissolved	Water	1630	
500-257245-13	SBW-01_20240924	Total/NA	Water	1630	
MB 350-2953/1-A	Method Blank	Total/NA	Water	1630	
MB 350-2953/2-A	Method Blank	Total/NA	Water	1630	
MB 350-2953/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-2953/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-2953/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 2970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Dissolved	Water	1630	2953
500-257245-1	PNC-01_20240923	Total/NA	Water	1630	2953
500-257245-3	DUP-01-SW_20240923	Dissolved	Water	1630	2953
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	1630	2953
500-257245-5	PRC-02_20240923	Total/NA	Water	1630	2953
500-257245-13	SBW-01_20240924	Dissolved	Water	1630	2953
500-257245-13	SBW-01_20240924	Total/NA	Water	1630	2953
MB 350-2953/1-A	Method Blank	Total/NA	Water	1630	2953
MB 350-2953/2-A	Method Blank	Total/NA	Water	1630	2953
MB 350-2953/3-A	Method Blank	Total/NA	Water	1630	2953
LCS 350-2953/4-A	Lab Control Sample	Total/NA	Water	1630	2953
LCSD 350-2953/5-A	Lab Control Sample Dup	Total/NA	Water	1630	2953

Analysis Batch: 2975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Dissolved	Water	1631E	
500-257245-2	PNC-01_20240923_FBLL	Total/NA	Water	1631E	
500-257245-3	DUP-01-SW_20240923	Dissolved	Water	1631E	
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	1631E	

Metals (Continued)

Analysis Batch: 2975 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-4	DUP-01-SW_20240923_FBLL	Total/NA	Water	1631E	
500-257245-5	PRC-02_20240923	Dissolved	Water	1631E	
500-257245-5	PRC-02_20240923	Total/NA	Water	1631E	
500-257245-6	PRC-02_20240923_FBLL	Total/NA	Water	1631E	
500-257245-7	MLR-03_20240923	Dissolved	Water	1631E	
500-257245-7	MLR-03_20240923	Total/NA	Water	1631E	
500-257245-8	MLR-03_20240923_FBLL	Total/NA	Water	1631E	
500-257245-9	NTC-01_20240923	Dissolved	Water	1631E	
500-257245-9	NTC-01_20240923	Total/NA	Water	1631E	
500-257245-10	NTC-01_20240923_FBLL	Total/NA	Water	1631E	
500-257245-11	MLR-01_20240923	Dissolved	Water	1631E	
500-257245-11	MLR-01_20240923	Total/NA	Water	1631E	
500-257245-12	MLR-01_20240923_FBLL	Total/NA	Water	1631E	
500-257245-13	SBW-01_20240924	Dissolved	Water	1631E	
500-257245-13	SBW-01_20240924	Total/NA	Water	1631E	
500-257245-14	SBW-01_20240924_FBLL	Total/NA	Water	1631E	
500-257245-17	PNC-02_20240924	Dissolved	Water	1631E	
500-257245-17	PNC-02_20240924	Total/NA	Water	1631E	
500-257245-18	PNC-02_20240924-FBLL	Total/NA	Water	1631E	
500-257245-19	MLR-02_20240924	Dissolved	Water	1631E	
500-257245-19	MLR-02_20240924	Total/NA	Water	1631E	
500-257245-20	MLR-02_20240924-FBLL	Total/NA	Water	1631E	
500-257245-21	PRC-01_20240924	Dissolved	Water	1631E	
500-257245-21	PRC-01_20240924	Total/NA	Water	1631E	
500-257245-22	PRC-01_20240924-FBLL	Total/NA	Water	1631E	
500-257245-23	PNC-03_20240924	Dissolved	Water	1631E	
500-257245-23	PNC-03_20240924	Total/NA	Water	1631E	
500-257245-24	PNC-03_20240924-FBLL	Total/NA	Water	1631E	
MB 350-2975/17	Method Blank	Total/NA	Water	1631E	
MB 350-2975/18	Method Blank	Total/NA	Water	1631E	
MB 350-2975/19	Method Blank	Total/NA	Water	1631E	
MB 350-2975/20	Method Blank	Total/NA	Water	1631E	
MB 350-2975/23	Method Blank	Total/NA	Water	1631E	
MB 350-2975/24	Method Blank	Total/NA	Water	1631E	
MB 350-2975/25	Method Blank	Total/NA	Water	1631E	
MB 350-2975/26	Method Blank	Total/NA	Water	1631E	
MB 350-2975/27	Method Blank	Total/NA	Water	1631E	
LCS 350-2975/28	Lab Control Sample	Total/NA	Water	1631E	
LCS 350-2975/30	Lab Control Sample	Total/NA	Water	1631E	
LCS 350-2975/32	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2975/29	Lab Control Sample Dup	Total/NA	Water	1631E	
LCSD 350-2975/31	Lab Control Sample Dup	Total/NA	Water	1631E	
LCSD 350-2975/35	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 2978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-25	ARC-03_20240926	Dissolved	Water	1631E	
500-257245-25	ARC-03_20240926	Total/NA	Water	1631E	
500-257245-26	ARC-03_20240926-FBLL	Total/NA	Water	1631E	
500-257245-27	CBR-01_20240925	Total/NA	Water	1631E	
MB 350-2978/11	Method Blank	Total/NA	Water	1631E	

Metals (Continued)

Analysis Batch: 2978 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 350-2978/12	Method Blank	Total/NA	Water	1631E	
MB 350-2978/13	Method Blank	Total/NA	Water	1631E	
LCS 350-2978/14	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-2978/15	Lab Control Sample Dup	Total/NA	Water	1631E	

Prep Batch: 2981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-25	ARC-03_20240926	Dissolved	Water	1638	
500-257245-25	ARC-03_20240926	Total Recoverable	Water	1638	
500-257245-27	CBR-01_20240925	Dissolved	Water	1638	
500-257245-27	CBR-01_20240925	Total Recoverable	Water	1638	
500-257245-29	DKC-03_20240926	Dissolved	Water	1638	
500-257245-29	DKC-03_20240926	Total Recoverable	Water	1638	
500-257245-31	ARC-01_20240925	Dissolved	Water	1638	
500-257245-31	ARC-01_20240925	Total Recoverable	Water	1638	
500-257245-33	PNC-04_20240926	Dissolved	Water	1638	
500-257245-33	PNC-04_20240926	Total Recoverable	Water	1638	
500-257245-35	ARC-02_20240925	Dissolved	Water	1638	
500-257245-35	ARC-02_20240925	Total Recoverable	Water	1638	
500-257245-37	MW-43_20240925	Dissolved	Water	1638	
500-257245-37	MW-43_20240925	Total Recoverable	Water	1638	
500-257245-39	MW-44_20240925	Dissolved	Water	1638	
500-257245-39	MW-44_20240925	Total Recoverable	Water	1638	
500-257245-41	DKC-02_20240925	Dissolved	Water	1638	
500-257245-41	DKC-02_20240925	Total Recoverable	Water	1638	
MB 350-2981/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-2981/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-2981/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-2981/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-257245-25 MS	ARC-03_20240926	Dissolved	Water	1638	
500-257245-25 MSD	ARC-03_20240926	Dissolved	Water	1638	
500-257245-41 MS	DKC-02_20240925	Total Recoverable	Water	1638	
500-257245-41 MSD	DKC-02_20240925	Total Recoverable	Water	1638	

Analysis Batch: 2993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-25	ARC-03_20240926	Total Recoverable	Water	1638	2981
500-257245-27	CBR-01_20240925	Dissolved	Water	1638	2981
500-257245-27	CBR-01_20240925	Total Recoverable	Water	1638	2981
500-257245-29	DKC-03_20240926	Dissolved	Water	1638	2981
500-257245-29	DKC-03_20240926	Total Recoverable	Water	1638	2981
500-257245-31	ARC-01_20240925	Dissolved	Water	1638	2981
500-257245-31	ARC-01_20240925	Total Recoverable	Water	1638	2981
500-257245-33	PNC-04_20240926	Dissolved	Water	1638	2981
500-257245-33	PNC-04_20240926	Total Recoverable	Water	1638	2981
500-257245-35	ARC-02_20240925	Dissolved	Water	1638	2981
500-257245-35	ARC-02_20240925	Total Recoverable	Water	1638	2981
500-257245-37	MW-43_20240925	Dissolved	Water	1638	2981
500-257245-37	MW-43_20240925	Total Recoverable	Water	1638	2981
500-257245-39	MW-44_20240925	Dissolved	Water	1638	2981
500-257245-39	MW-44_20240925	Total Recoverable	Water	1638	2981

Metals (Continued)

Analysis Batch: 2993 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-41	DKC-02_20240925	Dissolved	Water	1638	2981
500-257245-41	DKC-02_20240925	Total Recoverable	Water	1638	2981
MB 350-2981/1-A	Method Blank	Total Recoverable	Water	1638	2981
MB 350-2981/2-A	Method Blank	Total Recoverable	Water	1638	2981
LCS 350-2981/3-A	Lab Control Sample	Total Recoverable	Water	1638	2981
LCSD 350-2981/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	2981
500-257245-25 MS	ARC-03_20240926	Dissolved	Water	1638	2981
500-257245-25 MSD	ARC-03_20240926	Dissolved	Water	1638	2981
500-257245-41 MS	DKC-02_20240925	Total Recoverable	Water	1638	2981
500-257245-41 MSD	DKC-02_20240925	Total Recoverable	Water	1638	2981

Analysis Batch: 3001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-27	CBR-01_20240925	Dissolved	Water	1631E	
500-257245-28	CBR-01_20240925-FBLL	Total/NA	Water	1631E	
500-257245-29	DKC-03_20240926	Dissolved	Water	1631E	
500-257245-29	DKC-03_20240926	Total/NA	Water	1631E	
500-257245-30	DKC-03_20240926-FBLL	Total/NA	Water	1631E	
500-257245-31	ARC-01_20240925	Dissolved	Water	1631E	
500-257245-31	ARC-01_20240925	Total/NA	Water	1631E	
500-257245-32	ARC-01_20240925-FBLL	Total/NA	Water	1631E	
500-257245-33	PNC-04_20240926	Dissolved	Water	1631E	
500-257245-33	PNC-04_20240926	Total/NA	Water	1631E	
500-257245-34	PNC-04_20240926-FBLL	Total/NA	Water	1631E	
500-257245-35	ARC-02_20240925	Dissolved	Water	1631E	
500-257245-35	ARC-02_20240925	Total/NA	Water	1631E	
500-257245-36	ARC-02_20240925-FBLL	Total/NA	Water	1631E	
500-257245-37	MW-43_20240925	Dissolved	Water	1631E	
500-257245-37	MW-43_20240925	Total/NA	Water	1631E	
500-257245-38	MW-43_20240925-FBLL	Total/NA	Water	1631E	
500-257245-39	MW-44_20240925	Dissolved	Water	1631E	
500-257245-39	MW-44_20240925	Total/NA	Water	1631E	
500-257245-40	MW-44_20240925-FBLL	Total/NA	Water	1631E	
500-257245-41	DKC-02_20240925	Dissolved	Water	1631E	
500-257245-41	DKC-02_20240925	Total/NA	Water	1631E	
500-257245-42	DKC-02_20240925-FBLL	Total/NA	Water	1631E	
MB 350-3001/17	Method Blank	Total/NA	Water	1631E	
MB 350-3001/18	Method Blank	Total/NA	Water	1631E	
MB 350-3001/21	Method Blank	Total/NA	Water	1631E	
MB 350-3001/22	Method Blank	Total/NA	Water	1631E	
MB 350-3001/23	Method Blank	Total/NA	Water	1631E	
MB 350-3001/24	Method Blank	Total/NA	Water	1631E	
LCS 350-3001/28	Lab Control Sample	Total/NA	Water	1631E	
LCS 350-3001/30	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-3001/29	Lab Control Sample Dup	Total/NA	Water	1631E	
LCSD 350-3001/33	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 3003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-25	ARC-03_20240926	Dissolved	Water	1638	2981

Metals

Prep Batch: 788713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total Recoverable	Water	3005A	
500-257245-3	DUP-01-SW_20240923	Total Recoverable	Water	3005A	
500-257245-5	PRC-02_20240923	Total Recoverable	Water	3005A	
500-257245-7	MLR-03_20240923	Total Recoverable	Water	3005A	
500-257245-9	NTC-01_20240923	Total Recoverable	Water	3005A	
500-257245-11	MLR-01_20240923	Total Recoverable	Water	3005A	
500-257245-13	SBW-01_20240924	Total Recoverable	Water	3005A	
500-257245-15	SBD-01_20240924	Total Recoverable	Water	3005A	
500-257245-17	PNC-02_20240924	Total Recoverable	Water	3005A	
500-257245-19	MLR-02_20240924	Total Recoverable	Water	3005A	
500-257245-21	PRC-01_20240924	Total Recoverable	Water	3005A	
500-257245-23	PNC-03_20240924	Total Recoverable	Water	3005A	
500-257245-25	ARC-03_20240926	Total Recoverable	Water	3005A	
500-257245-27	CBR-01_20240925	Total Recoverable	Water	3005A	
500-257245-29	DKC-03_20240926	Total Recoverable	Water	3005A	
500-257245-31	ARC-01_20240925	Total Recoverable	Water	3005A	
500-257245-33	PNC-04_20240926	Total Recoverable	Water	3005A	
500-257245-35	ARC-02_20240925	Total Recoverable	Water	3005A	
500-257245-37	MW-43_20240925	Total Recoverable	Water	3005A	
500-257245-39	MW-44_20240925	Total Recoverable	Water	3005A	
MB 500-788713/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-788713/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-257245-15 MS	SBD-01_20240924	Total Recoverable	Water	3005A	
500-257245-15 MSD	SBD-01_20240924	Total Recoverable	Water	3005A	
500-257245-15 DU	SBD-01_20240924	Total Recoverable	Water	3005A	

Prep Batch: 788879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Dissolved	Water	3005A	
500-257245-3	DUP-01-SW_20240923	Dissolved	Water	3005A	
500-257245-5	PRC-02_20240923	Dissolved	Water	3005A	
500-257245-7	MLR-03_20240923	Dissolved	Water	3005A	
500-257245-9	NTC-01_20240923	Dissolved	Water	3005A	
500-257245-11	MLR-01_20240923	Dissolved	Water	3005A	
500-257245-13	SBW-01_20240924	Dissolved	Water	3005A	
500-257245-15	SBD-01_20240924	Dissolved	Water	3005A	
500-257245-17	PNC-02_20240924	Dissolved	Water	3005A	
500-257245-19	MLR-02_20240924	Dissolved	Water	3005A	
500-257245-21	PRC-01_20240924	Dissolved	Water	3005A	
500-257245-23	PNC-03_20240924	Dissolved	Water	3005A	
500-257245-25	ARC-03_20240926	Dissolved	Water	3005A	
500-257245-27	CBR-01_20240925	Dissolved	Water	3005A	
500-257245-29	DKC-03_20240926	Dissolved	Water	3005A	
500-257245-31	ARC-01_20240925	Dissolved	Water	3005A	
500-257245-33	PNC-04_20240926	Dissolved	Water	3005A	
500-257245-35	ARC-02_20240925	Dissolved	Water	3005A	
500-257245-37	MW-43_20240925	Dissolved	Water	3005A	
500-257245-39	MW-44_20240925	Dissolved	Water	3005A	
MB 500-788879/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-788879/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-257245-15 MS	SBD-01_20240924	Dissolved	Water	3005A	

Metals (Continued)

Prep Batch: 788879 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-15 MSD	SBD-01_20240924	Dissolved	Water	3005A	
500-257245-15 DU	SBD-01_20240924	Dissolved	Water	3005A	

Prep Batch: 788880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-41	DKC-02_20240925	Dissolved	Water	3005A	
500-257245-41	DKC-02_20240925	Total Recoverable	Water	3005A	
MB 500-788880/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-788880/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 789324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Dissolved	Water	6020B	788879
500-257245-1	PNC-01_20240923	Total Recoverable	Water	6020B	788713
500-257245-3	DUP-01-SW_20240923	Dissolved	Water	6020B	788879
500-257245-3	DUP-01-SW_20240923	Total Recoverable	Water	6020B	788713
500-257245-5	PRC-02_20240923	Dissolved	Water	6020B	788879
500-257245-5	PRC-02_20240923	Total Recoverable	Water	6020B	788713
500-257245-7	MLR-03_20240923	Dissolved	Water	6020B	788879
500-257245-7	MLR-03_20240923	Total Recoverable	Water	6020B	788713
500-257245-9	NTC-01_20240923	Dissolved	Water	6020B	788879
500-257245-9	NTC-01_20240923	Total Recoverable	Water	6020B	788713
500-257245-11	MLR-01_20240923	Dissolved	Water	6020B	788879
500-257245-11	MLR-01_20240923	Total Recoverable	Water	6020B	788713
500-257245-13	SBW-01_20240924	Dissolved	Water	6020B	788879
500-257245-13	SBW-01_20240924	Total Recoverable	Water	6020B	788713
500-257245-15	SBD-01_20240924	Dissolved	Water	6020B	788879
500-257245-15	SBD-01_20240924	Total Recoverable	Water	6020B	788713
500-257245-17	PNC-02_20240924	Dissolved	Water	6020B	788879
500-257245-17	PNC-02_20240924	Total Recoverable	Water	6020B	788713
500-257245-19	MLR-02_20240924	Dissolved	Water	6020B	788879
500-257245-19	MLR-02_20240924	Total Recoverable	Water	6020B	788713
500-257245-21	PRC-01_20240924	Dissolved	Water	6020B	788879
500-257245-21	PRC-01_20240924	Total Recoverable	Water	6020B	788713
500-257245-23	PNC-03_20240924	Dissolved	Water	6020B	788879
500-257245-23	PNC-03_20240924	Total Recoverable	Water	6020B	788713
500-257245-25	ARC-03_20240926	Dissolved	Water	6020B	788879
500-257245-25	ARC-03_20240926	Total Recoverable	Water	6020B	788713
500-257245-27	CBR-01_20240925	Dissolved	Water	6020B	788879
500-257245-27	CBR-01_20240925	Total Recoverable	Water	6020B	788713
500-257245-29	DKC-03_20240926	Dissolved	Water	6020B	788879
500-257245-29	DKC-03_20240926	Total Recoverable	Water	6020B	788713
500-257245-31	ARC-01_20240925	Dissolved	Water	6020B	788879
500-257245-31	ARC-01_20240925	Total Recoverable	Water	6020B	788713
500-257245-33	PNC-04_20240926	Dissolved	Water	6020B	788879
500-257245-33	PNC-04_20240926	Total Recoverable	Water	6020B	788713
500-257245-35	ARC-02_20240925	Dissolved	Water	6020B	788879
500-257245-35	ARC-02_20240925	Total Recoverable	Water	6020B	788713
500-257245-37	MW-43_20240925	Dissolved	Water	6020B	788879
500-257245-37	MW-43_20240925	Total Recoverable	Water	6020B	788713
500-257245-39	MW-44_20240925	Dissolved	Water	6020B	788879

Metals (Continued)

Analysis Batch: 789324 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-39	MW-44_20240925	Total Recoverable	Water	6020B	788713
MB 500-788713/1-A	Method Blank	Total Recoverable	Water	6020B	788713
MB 500-788879/1-A	Method Blank	Total Recoverable	Water	6020B	788879
LCS 500-788713/2-A	Lab Control Sample	Total Recoverable	Water	6020B	788713
LCS 500-788879/2-A	Lab Control Sample	Total Recoverable	Water	6020B	788879
500-257245-15 MS	SBD-01_20240924	Dissolved	Water	6020B	788879
500-257245-15 MS	SBD-01_20240924	Total Recoverable	Water	6020B	788713
500-257245-15 MSD	SBD-01_20240924	Dissolved	Water	6020B	788879
500-257245-15 MSD	SBD-01_20240924	Total Recoverable	Water	6020B	788713
500-257245-15 DU	SBD-01_20240924	Dissolved	Water	6020B	788879
500-257245-15 DU	SBD-01_20240924	Total Recoverable	Water	6020B	788713

Analysis Batch: 789379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total Recoverable	Water	SM 2340B	788713
500-257245-3	DUP-01-SW_20240923	Total Recoverable	Water	SM 2340B	788713
500-257245-5	PRC-02_20240923	Total Recoverable	Water	SM 2340B	788713
500-257245-7	MLR-03_20240923	Total Recoverable	Water	SM 2340B	788713
500-257245-9	NTC-01_20240923	Total Recoverable	Water	SM 2340B	788713
500-257245-11	MLR-01_20240923	Total Recoverable	Water	SM 2340B	788713
500-257245-13	SBW-01_20240924	Total Recoverable	Water	SM 2340B	788713
500-257245-15	SBD-01_20240924	Total Recoverable	Water	SM 2340B	788713
500-257245-17	PNC-02_20240924	Total Recoverable	Water	SM 2340B	788713
500-257245-19	MLR-02_20240924	Total Recoverable	Water	SM 2340B	788713
500-257245-21	PRC-01_20240924	Total Recoverable	Water	SM 2340B	788713
500-257245-23	PNC-03_20240924	Total Recoverable	Water	SM 2340B	788713
500-257245-25	ARC-03_20240926	Total Recoverable	Water	SM 2340B	788713
500-257245-27	CBR-01_20240925	Total Recoverable	Water	SM 2340B	788713
500-257245-29	DKC-03_20240926	Total Recoverable	Water	SM 2340B	788713
500-257245-31	ARC-01_20240925	Total Recoverable	Water	SM 2340B	788713
500-257245-33	PNC-04_20240926	Total Recoverable	Water	SM 2340B	788713
500-257245-35	ARC-02_20240925	Total Recoverable	Water	SM 2340B	788713
500-257245-37	MW-43_20240925	Total Recoverable	Water	SM 2340B	788713
500-257245-39	MW-44_20240925	Total Recoverable	Water	SM 2340B	788713

Analysis Batch: 789512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Dissolved	Water	6020B	788879
500-257245-41	DKC-02_20240925	Dissolved	Water	6020B	788880
500-257245-41	DKC-02_20240925	Total Recoverable	Water	6020B	788880
MB 500-788880/1-A	Method Blank	Total Recoverable	Water	6020B	788880
LCS 500-788880/2-A	Lab Control Sample	Total Recoverable	Water	6020B	788880

Analysis Batch: 789555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-41	DKC-02_20240925	Total Recoverable	Water	SM 2340B	788880

Analysis Batch: 789615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-39	MW-44_20240925	Total Recoverable	Water	6020B	788713

General Chemistry

Analysis Batch: 787648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total/NA	Water	300.0	
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	300.0	
500-257245-5	PRC-02_20240923	Total/NA	Water	300.0	
500-257245-7	MLR-03_20240923	Total/NA	Water	300.0	
500-257245-9	NTC-01_20240923	Total/NA	Water	300.0	
500-257245-11	MLR-01_20240923	Total/NA	Water	300.0	
MB 500-787648/3	Method Blank	Total/NA	Water	300.0	
LCS 500-787648/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 787649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total/NA	Water	300.0	
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	300.0	
500-257245-5	PRC-02_20240923	Total/NA	Water	300.0	
500-257245-7	MLR-03_20240923	Total/NA	Water	300.0	
500-257245-9	NTC-01_20240923	Total/NA	Water	300.0	
500-257245-11	MLR-01_20240923	Total/NA	Water	300.0	
MB 500-787649/3	Method Blank	Total/NA	Water	300.0	
LCS 500-787649/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 787797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total/NA	Water	SM 4500 S2 F	
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	SM 4500 S2 F	
500-257245-5	PRC-02_20240923	Total/NA	Water	SM 4500 S2 F	
500-257245-7	MLR-03_20240923	Total/NA	Water	SM 4500 S2 F	
500-257245-9	NTC-01_20240923	Total/NA	Water	SM 4500 S2 F	
500-257245-11	MLR-01_20240923	Total/NA	Water	SM 4500 S2 F	
MB 500-787797/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-787797/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 787799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total/NA	Water	SM 2540C	
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	SM 2540C	
500-257245-5	PRC-02_20240923	Total/NA	Water	SM 2540C	
500-257245-7	MLR-03_20240923	Total/NA	Water	SM 2540C	
500-257245-9	NTC-01_20240923	Total/NA	Water	SM 2540C	
500-257245-11	MLR-01_20240923	Total/NA	Water	SM 2540C	
MB 500-787799/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-787799/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 787874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-13	SBW-01_20240924	Total/NA	Water	300.0	
500-257245-15	SBD-01_20240924	Total/NA	Water	300.0	
500-257245-17	PNC-02_20240924	Total/NA	Water	300.0	
500-257245-19	MLR-02_20240924	Total/NA	Water	300.0	
500-257245-21	PRC-01_20240924	Total/NA	Water	300.0	
500-257245-23	PNC-03_20240924	Total/NA	Water	300.0	
MB 500-787874/3	Method Blank	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 787874 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-787874/4	Lab Control Sample	Total/NA	Water	300.0	
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	300.0	
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	300.0	

Analysis Batch: 787875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-13	SBW-01_20240924	Total/NA	Water	300.0	
500-257245-15	SBD-01_20240924	Total/NA	Water	300.0	
500-257245-17	PNC-02_20240924	Total/NA	Water	300.0	
500-257245-19	MLR-02_20240924	Total/NA	Water	300.0	
500-257245-21	PRC-01_20240924	Total/NA	Water	300.0	
500-257245-23	PNC-03_20240924	Total/NA	Water	300.0	
MB 500-787875/3	Method Blank	Total/NA	Water	300.0	
LCS 500-787875/4	Lab Control Sample	Total/NA	Water	300.0	
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	300.0	
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	300.0	

Analysis Batch: 788071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-25	ARC-03_20240926	Total/NA	Water	300.0	
500-257245-27	CBR-01_20240925	Total/NA	Water	300.0	
500-257245-29	DKC-03_20240926	Total/NA	Water	300.0	
500-257245-31	ARC-01_20240925	Total/NA	Water	300.0	
500-257245-33	PNC-04_20240926	Total/NA	Water	300.0	
500-257245-35	ARC-02_20240925	Total/NA	Water	300.0	
500-257245-37	MW-43_20240925	Total/NA	Water	300.0	
500-257245-39	MW-44_20240925	Total/NA	Water	300.0	
500-257245-41	DKC-02_20240925	Total/NA	Water	300.0	
MB 500-788071/3	Method Blank	Total/NA	Water	300.0	
LCS 500-788071/4	Lab Control Sample	Total/NA	Water	300.0	
500-257245-33 MS	PNC-04_20240926	Total/NA	Water	300.0	
500-257245-33 MSD	PNC-04_20240926	Total/NA	Water	300.0	

Analysis Batch: 788072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-25	ARC-03_20240926	Total/NA	Water	300.0	
500-257245-27	CBR-01_20240925	Total/NA	Water	300.0	
500-257245-29	DKC-03_20240926	Total/NA	Water	300.0	
500-257245-31	ARC-01_20240925	Total/NA	Water	300.0	
500-257245-33	PNC-04_20240926	Total/NA	Water	300.0	
500-257245-35	ARC-02_20240925	Total/NA	Water	300.0	
500-257245-37	MW-43_20240925	Total/NA	Water	300.0	
500-257245-39	MW-44_20240925	Total/NA	Water	300.0	
500-257245-41	DKC-02_20240925	Total/NA	Water	300.0	
MB 500-788072/3	Method Blank	Total/NA	Water	300.0	
LCS 500-788072/4	Lab Control Sample	Total/NA	Water	300.0	
500-257245-33 MS	PNC-04_20240926	Total/NA	Water	300.0	
500-257245-33 MSD	PNC-04_20240926	Total/NA	Water	300.0	

General Chemistry

Prep Batch: 788092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total/NA	Water	365.2/365.3/365	
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	365.2/365.3/365	
500-257245-5	PRC-02_20240923	Total/NA	Water	365.2/365.3/365	
500-257245-7	MLR-03_20240923	Total/NA	Water	365.2/365.3/365	
500-257245-9	NTC-01_20240923	Total/NA	Water	365.2/365.3/365	
500-257245-11	MLR-01_20240923	Total/NA	Water	365.2/365.3/365	
500-257245-13	SBW-01_20240924	Total/NA	Water	365.2/365.3/365	
500-257245-15	SBD-01_20240924	Total/NA	Water	365.2/365.3/365	
500-257245-17	PNC-02_20240924	Total/NA	Water	365.2/365.3/365	
500-257245-19	MLR-02_20240924	Total/NA	Water	365.2/365.3/365	
500-257245-21	PRC-01_20240924	Total/NA	Water	365.2/365.3/365	
500-257245-23	PNC-03_20240924	Total/NA	Water	365.2/365.3/365	
MB 500-788092/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-788092/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	365.2/365.3/365	
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 788113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	SM 2540D	
MB 500-788113/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-788113/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 788138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total/NA	Water	365.1	788092
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	365.1	788092
500-257245-5	PRC-02_20240923	Total/NA	Water	365.1	788092
500-257245-7	MLR-03_20240923	Total/NA	Water	365.1	788092
500-257245-9	NTC-01_20240923	Total/NA	Water	365.1	788092
500-257245-11	MLR-01_20240923	Total/NA	Water	365.1	788092
500-257245-13	SBW-01_20240924	Total/NA	Water	365.1	788092
500-257245-15	SBD-01_20240924	Total/NA	Water	365.1	788092
500-257245-17	PNC-02_20240924	Total/NA	Water	365.1	788092
500-257245-19	MLR-02_20240924	Total/NA	Water	365.1	788092
500-257245-21	PRC-01_20240924	Total/NA	Water	365.1	788092
500-257245-23	PNC-03_20240924	Total/NA	Water	365.1	788092
MB 500-788092/1-A	Method Blank	Total/NA	Water	365.1	788092
LCS 500-788092/2-A	Lab Control Sample	Total/NA	Water	365.1	788092
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	365.1	788092
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	365.1	788092

Prep Batch: 788209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total/NA	Water	Distill/CN	
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	Distill/CN	
500-257245-5	PRC-02_20240923	Total/NA	Water	Distill/CN	
500-257245-7	MLR-03_20240923	Total/NA	Water	Distill/CN	
500-257245-9	NTC-01_20240923	Total/NA	Water	Distill/CN	
500-257245-11	MLR-01_20240923	Total/NA	Water	Distill/CN	
500-257245-13	SBW-01_20240924	Total/NA	Water	Distill/CN	

General Chemistry (Continued)

Prep Batch: 788209 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-15	SBD-01_20240924	Total/NA	Water	Distill/CN	
MB 500-788209/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-788209/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	Distill/CN	
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	Distill/CN	

Analysis Batch: 788236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-13	SBW-01_20240924	Total/NA	Water	SM 2540C	
500-257245-15	SBD-01_20240924	Total/NA	Water	SM 2540C	
500-257245-17	PNC-02_20240924	Total/NA	Water	SM 2540C	
500-257245-19	MLR-02_20240924	Total/NA	Water	SM 2540C	
500-257245-21	PRC-01_20240924	Total/NA	Water	SM 2540C	
500-257245-23	PNC-03_20240924	Total/NA	Water	SM 2540C	
500-257245-25	ARC-03_20240926	Total/NA	Water	SM 2540C	
500-257245-27	CBR-01_20240925	Total/NA	Water	SM 2540C	
500-257245-29	DKC-03_20240926	Total/NA	Water	SM 2540C	
500-257245-31	ARC-01_20240925	Total/NA	Water	SM 2540C	
500-257245-33	PNC-04_20240926	Total/NA	Water	SM 2540C	
500-257245-35	ARC-02_20240925	Total/NA	Water	SM 2540C	
500-257245-37	MW-43_20240925	Total/NA	Water	SM 2540C	
500-257245-39	MW-44_20240925	Total/NA	Water	SM 2540C	
500-257245-41	DKC-02_20240925	Total/NA	Water	SM 2540C	
MB 500-788236/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-788236/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	SM 2540C	
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	SM 2540C	
500-257245-13 DU	SBW-01_20240924	Total/NA	Water	SM 2540C	

Analysis Batch: 788239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-13	SBW-01_20240924	Total/NA	Water	SM 4500 S2 F	
500-257245-17	PNC-02_20240924	Total/NA	Water	SM 4500 S2 F	
500-257245-19	MLR-02_20240924	Total/NA	Water	SM 4500 S2 F	
500-257245-21	PRC-01_20240924	Total/NA	Water	SM 4500 S2 F	
500-257245-23	PNC-03_20240924	Total/NA	Water	SM 4500 S2 F	
500-257245-25	ARC-03_20240926	Total/NA	Water	SM 4500 S2 F	
500-257245-27	CBR-01_20240925	Total/NA	Water	SM 4500 S2 F	
500-257245-29	DKC-03_20240926	Total/NA	Water	SM 4500 S2 F	
500-257245-31	ARC-01_20240925	Total/NA	Water	SM 4500 S2 F	
500-257245-33	PNC-04_20240926	Total/NA	Water	SM 4500 S2 F	
500-257245-35	ARC-02_20240925	Total/NA	Water	SM 4500 S2 F	
MB 500-788239/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-788239/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 788296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total/NA	Water	SM 2520B	
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	SM 2520B	
500-257245-5	PRC-02_20240923	Total/NA	Water	SM 2520B	
500-257245-7	MLR-03_20240923	Total/NA	Water	SM 2520B	

General Chemistry (Continued)

Analysis Batch: 788296 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-9	NTC-01_20240923	Total/NA	Water	SM 2520B	
500-257245-11	MLR-01_20240923	Total/NA	Water	SM 2520B	
500-257245-13	SBW-01_20240924	Total/NA	Water	SM 2520B	
500-257245-15	SBD-01_20240924	Total/NA	Water	SM 2520B	
500-257245-17	PNC-02_20240924	Total/NA	Water	SM 2520B	
500-257245-19	MLR-02_20240924	Total/NA	Water	SM 2520B	
500-257245-21	PRC-01_20240924	Total/NA	Water	SM 2520B	
500-257245-23	PNC-03_20240924	Total/NA	Water	SM 2520B	
500-257245-25	ARC-03_20240926	Total/NA	Water	SM 2520B	
500-257245-27	CBR-01_20240925	Total/NA	Water	SM 2520B	
500-257245-29	DKC-03_20240926	Total/NA	Water	SM 2520B	
500-257245-31	ARC-01_20240925	Total/NA	Water	SM 2520B	
500-257245-33	PNC-04_20240926	Total/NA	Water	SM 2520B	
500-257245-35	ARC-02_20240925	Total/NA	Water	SM 2520B	
500-257245-1 DU	PNC-01_20240923	Total/NA	Water	SM 2520B	
500-257245-19 DU	MLR-02_20240924	Total/NA	Water	SM 2520B	

Analysis Batch: 788297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total/NA	Water	SM 2320B	
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	SM 2320B	
500-257245-5	PRC-02_20240923	Total/NA	Water	SM 2320B	
500-257245-7	MLR-03_20240923	Total/NA	Water	SM 2320B	
500-257245-9	NTC-01_20240923	Total/NA	Water	SM 2320B	
MB 500-788297/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-788297/29	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 788332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total/NA	Water	SM 2540D	
500-257245-5	PRC-02_20240923	Total/NA	Water	SM 2540D	
500-257245-7	MLR-03_20240923	Total/NA	Water	SM 2540D	
500-257245-9	NTC-01_20240923	Total/NA	Water	SM 2540D	
500-257245-11	MLR-01_20240923	Total/NA	Water	SM 2540D	
MB 500-788332/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-788332/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 788411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total/NA	Water	335.4	788209
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	335.4	788209
500-257245-5	PRC-02_20240923	Total/NA	Water	335.4	788209
500-257245-7	MLR-03_20240923	Total/NA	Water	335.4	788209
500-257245-9	NTC-01_20240923	Total/NA	Water	335.4	788209
500-257245-11	MLR-01_20240923	Total/NA	Water	335.4	788209
500-257245-13	SBW-01_20240924	Total/NA	Water	335.4	788209
500-257245-15	SBD-01_20240924	Total/NA	Water	335.4	788209
MB 500-788209/1-A	Method Blank	Total/NA	Water	335.4	788209
LCS 500-788209/2-A	Lab Control Sample	Total/NA	Water	335.4	788209
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	335.4	788209
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	335.4	788209

General Chemistry

Analysis Batch: 788435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-15	SBD-01_20240924	Total/NA	Water	SM 4500 S2 F	
500-257245-37	MW-43_20240925	Total/NA	Water	SM 4500 S2 F	
500-257245-39	MW-44_20240925	Total/NA	Water	SM 4500 S2 F	
500-257245-41	DKC-02_20240925	Total/NA	Water	SM 4500 S2 F	
MB 500-788435/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-788435/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	SM 4500 S2 F	
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	SM 4500 S2 F	

Prep Batch: 788575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total/NA	Water	Distill/Ammonia	
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	Distill/Ammonia	
MB 500-788575/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-788575/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 788620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-13	SBW-01_20240924	Total/NA	Water	SM 2540D	
500-257245-15	SBD-01_20240924	Total/NA	Water	SM 2540D	
500-257245-17	PNC-02_20240924	Total/NA	Water	SM 2540D	
500-257245-19	MLR-02_20240924	Total/NA	Water	SM 2540D	
500-257245-21	PRC-01_20240924	Total/NA	Water	SM 2540D	
500-257245-23	PNC-03_20240924	Total/NA	Water	SM 2540D	
MB 500-788620/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-788620/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	SM 2540D	
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	SM 2540D	

Analysis Batch: 788632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-27	CBR-01_20240925	Total/NA	Water	SM 2540D	
500-257245-31	ARC-01_20240925	Total/NA	Water	SM 2540D	
500-257245-35	ARC-02_20240925	Total/NA	Water	SM 2540D	
500-257245-37	MW-43_20240925	Total/NA	Water	SM 2540D	
500-257245-39	MW-44_20240925	Total/NA	Water	SM 2540D	
500-257245-41	DKC-02_20240925	Total/NA	Water	SM 2540D	
MB 500-788632/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-788632/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-257245-37 MS	MW-43_20240925	Total/NA	Water	SM 2540D	
500-257245-27 DU	CBR-01_20240925	Total/NA	Water	SM 2540D	
500-257245-35 DU	ARC-02_20240925	Total/NA	Water	SM 2540D	

Prep Batch: 788753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-5	PRC-02_20240923	Total/NA	Water	Distill/Ammonia	
500-257245-7	MLR-03_20240923	Total/NA	Water	Distill/Ammonia	
500-257245-9	NTC-01_20240923	Total/NA	Water	Distill/Ammonia	
500-257245-11	MLR-01_20240923	Total/NA	Water	Distill/Ammonia	
500-257245-13	SBW-01_20240924	Total/NA	Water	Distill/Ammonia	
500-257245-15	SBD-01_20240924	Total/NA	Water	Distill/Ammonia	

General Chemistry (Continued)

Prep Batch: 788753 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-17	PNC-02_20240924	Total/NA	Water	Distill/Ammonia	
500-257245-19	MLR-02_20240924	Total/NA	Water	Distill/Ammonia	
500-257245-21	PRC-01_20240924	Total/NA	Water	Distill/Ammonia	
500-257245-23	PNC-03_20240924	Total/NA	Water	Distill/Ammonia	
500-257245-25	ARC-03_20240926	Total/NA	Water	Distill/Ammonia	
500-257245-27	CBR-01_20240925	Total/NA	Water	Distill/Ammonia	
500-257245-29	DKC-03_20240926	Total/NA	Water	Distill/Ammonia	
500-257245-31	ARC-01_20240925	Total/NA	Water	Distill/Ammonia	
500-257245-33	PNC-04_20240926	Total/NA	Water	Distill/Ammonia	
500-257245-35	ARC-02_20240925	Total/NA	Water	Distill/Ammonia	
500-257245-37	MW-43_20240925	Total/NA	Water	Distill/Ammonia	
500-257245-39	MW-44_20240925	Total/NA	Water	Distill/Ammonia	
500-257245-41	DKC-02_20240925	Total/NA	Water	Distill/Ammonia	
MB 500-788753/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-788753/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	Distill/Ammonia	
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	Distill/Ammonia	

Prep Batch: 788770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-17	PNC-02_20240924	Total/NA	Water	Distill/CN	
500-257245-19	MLR-02_20240924	Total/NA	Water	Distill/CN	
500-257245-21	PRC-01_20240924	Total/NA	Water	Distill/CN	
500-257245-23	PNC-03_20240924	Total/NA	Water	Distill/CN	
500-257245-25	ARC-03_20240926	Total/NA	Water	Distill/CN	
500-257245-27	CBR-01_20240925	Total/NA	Water	Distill/CN	
500-257245-29	DKC-03_20240926	Total/NA	Water	Distill/CN	
500-257245-31	ARC-01_20240925	Total/NA	Water	Distill/CN	
500-257245-35	ARC-02_20240925	Total/NA	Water	Distill/CN	
500-257245-37	MW-43_20240925	Total/NA	Water	Distill/CN	
500-257245-39	MW-44_20240925	Total/NA	Water	Distill/CN	
500-257245-41	DKC-02_20240925	Total/NA	Water	Distill/CN	
MB 500-788770/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-788770/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
500-257245-21 MS	PRC-01_20240924	Total/NA	Water	Distill/CN	
500-257245-21 MSD	PRC-01_20240924	Total/NA	Water	Distill/CN	

Analysis Batch: 788821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-37	MW-43_20240925	Total/NA	Water	SM 2520B	
500-257245-39	MW-44_20240925	Total/NA	Water	SM 2520B	
500-257245-41	DKC-02_20240925	Total/NA	Water	SM 2520B	
500-257245-37 DU	MW-43_20240925	Total/NA	Water	SM 2520B	

Analysis Batch: 788852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-5	PRC-02_20240923	Total/NA	Water	300.0	
500-257245-21	PRC-01_20240924	Total/NA	Water	300.0	
500-257245-33	PNC-04_20240926	Total/NA	Water	300.0	
500-257245-39	MW-44_20240925	Total/NA	Water	300.0	
MB 500-788852/28	Method Blank	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 788852 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-788852/31	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 788884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-17	PNC-02_20240924	Total/NA	Water	335.4	788770
500-257245-19	MLR-02_20240924	Total/NA	Water	335.4	788770
500-257245-21	PRC-01_20240924	Total/NA	Water	335.4	788770
500-257245-23	PNC-03_20240924	Total/NA	Water	335.4	788770
500-257245-25	ARC-03_20240926	Total/NA	Water	335.4	788770
500-257245-27	CBR-01_20240925	Total/NA	Water	335.4	788770
500-257245-29	DKC-03_20240926	Total/NA	Water	335.4	788770
500-257245-31	ARC-01_20240925	Total/NA	Water	335.4	788770
500-257245-35	ARC-02_20240925	Total/NA	Water	335.4	788770
500-257245-37	MW-43_20240925	Total/NA	Water	335.4	788770
500-257245-39	MW-44_20240925	Total/NA	Water	335.4	788770
500-257245-41	DKC-02_20240925	Total/NA	Water	335.4	788770
MB 500-788770/1-A	Method Blank	Total/NA	Water	335.4	788770
LCS 500-788770/2-A	Lab Control Sample	Total/NA	Water	335.4	788770
500-257245-21 MS	PRC-01_20240924	Total/NA	Water	335.4	788770
500-257245-21 MSD	PRC-01_20240924	Total/NA	Water	335.4	788770

Analysis Batch: 788918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total/NA	Water	350.1	788575
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	350.1	788575
500-257245-5	PRC-02_20240923	Total/NA	Water	350.1	788753
500-257245-7	MLR-03_20240923	Total/NA	Water	350.1	788753
500-257245-9	NTC-01_20240923	Total/NA	Water	350.1	788753
500-257245-11	MLR-01_20240923	Total/NA	Water	350.1	788753
500-257245-13	SBW-01_20240924	Total/NA	Water	350.1	788753
500-257245-15	SBD-01_20240924	Total/NA	Water	350.1	788753
500-257245-17	PNC-02_20240924	Total/NA	Water	350.1	788753
500-257245-19	MLR-02_20240924	Total/NA	Water	350.1	788753
500-257245-21	PRC-01_20240924	Total/NA	Water	350.1	788753
500-257245-23	PNC-03_20240924	Total/NA	Water	350.1	788753
500-257245-25	ARC-03_20240926	Total/NA	Water	350.1	788753
500-257245-27	CBR-01_20240925	Total/NA	Water	350.1	788753
500-257245-29	DKC-03_20240926	Total/NA	Water	350.1	788753
500-257245-31	ARC-01_20240925	Total/NA	Water	350.1	788753
500-257245-33	PNC-04_20240926	Total/NA	Water	350.1	788753
500-257245-35	ARC-02_20240925	Total/NA	Water	350.1	788753
500-257245-37	MW-43_20240925	Total/NA	Water	350.1	788753
500-257245-39	MW-44_20240925	Total/NA	Water	350.1	788753
500-257245-41	DKC-02_20240925	Total/NA	Water	350.1	788753
MB 500-788575/1-A	Method Blank	Total/NA	Water	350.1	788575
MB 500-788753/1-A	Method Blank	Total/NA	Water	350.1	788753
LCS 500-788575/2-A	Lab Control Sample	Total/NA	Water	350.1	788575
LCS 500-788753/2-A	Lab Control Sample	Total/NA	Water	350.1	788753
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	350.1	788753
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	350.1	788753

General Chemistry

Analysis Batch: 789017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-25	ARC-03_20240926	Total/NA	Water	SM 2540D	
500-257245-29	DKC-03_20240926	Total/NA	Water	SM 2540D	
500-257245-33	PNC-04_20240926	Total/NA	Water	SM 2540D	
MB 500-789017/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-789017/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-257245-29 MS	DKC-03_20240926	Total/NA	Water	SM 2540D	
500-257245-25 DU	ARC-03_20240926	Total/NA	Water	SM 2540D	

Prep Batch: 789241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-33	PNC-04_20240926	Total/NA	Water	Distill/CN	
MB 500-789241/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-789241/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Prep Batch: 789343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-25	ARC-03_20240926	Total/NA	Water	365.2/365.3/365	
500-257245-27	CBR-01_20240925	Total/NA	Water	365.2/365.3/365	
500-257245-29	DKC-03_20240926	Total/NA	Water	365.2/365.3/365	
500-257245-31	ARC-01_20240925	Total/NA	Water	365.2/365.3/365	
500-257245-33	PNC-04_20240926	Total/NA	Water	365.2/365.3/365	
500-257245-35	ARC-02_20240925	Total/NA	Water	365.2/365.3/365	
500-257245-37	MW-43_20240925	Total/NA	Water	365.2/365.3/365	
500-257245-39	MW-44_20240925	Total/NA	Water	365.2/365.3/365	
500-257245-41	DKC-02_20240925	Total/NA	Water	365.2/365.3/365	
MB 500-789343/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-789343/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 789387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-33	PNC-04_20240926	Total/NA	Water	335.4	789241
MB 500-789241/1-A	Method Blank	Total/NA	Water	335.4	789241
LCS 500-789241/2-A	Lab Control Sample	Total/NA	Water	335.4	789241

Analysis Batch: 789442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-11	MLR-01_20240923	Total/NA	Water	SM 2320B	
500-257245-13	SBW-01_20240924	Total/NA	Water	SM 2320B	
500-257245-15	SBD-01_20240924	Total/NA	Water	SM 2320B	
500-257245-17	PNC-02_20240924	Total/NA	Water	SM 2320B	
500-257245-19	MLR-02_20240924	Total/NA	Water	SM 2320B	
500-257245-21	PRC-01_20240924	Total/NA	Water	SM 2320B	
500-257245-23	PNC-03_20240924	Total/NA	Water	SM 2320B	
500-257245-25	ARC-03_20240926	Total/NA	Water	SM 2320B	
500-257245-27	CBR-01_20240925	Total/NA	Water	SM 2320B	
500-257245-29	DKC-03_20240926	Total/NA	Water	SM 2320B	
500-257245-31	ARC-01_20240925	Total/NA	Water	SM 2320B	
500-257245-33	PNC-04_20240926	Total/NA	Water	SM 2320B	
500-257245-35	ARC-02_20240925	Total/NA	Water	SM 2320B	
500-257245-37	MW-43_20240925	Total/NA	Water	SM 2320B	
500-257245-39	MW-44_20240925	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 789442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-41	DKC-02_20240925	Total/NA	Water	SM 2320B	
MB 500-789442/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-789442/4	Lab Control Sample	Total/NA	Water	SM 2320B	
500-257245-37 DU	MW-43_20240925	Total/NA	Water	SM 2320B	

Analysis Batch: 789527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Total/NA	Water	SM 5310C	
500-257245-3	DUP-01-SW_20240923	Total/NA	Water	SM 5310C	
500-257245-5	PRC-02_20240923	Total/NA	Water	SM 5310C	
500-257245-7	MLR-03_20240923	Total/NA	Water	SM 5310C	
500-257245-9	NTC-01_20240923	Total/NA	Water	SM 5310C	
500-257245-11	MLR-01_20240923	Total/NA	Water	SM 5310C	
500-257245-13	SBW-01_20240924	Total/NA	Water	SM 5310C	
500-257245-15	SBD-01_20240924	Total/NA	Water	SM 5310C	
500-257245-17	PNC-02_20240924	Total/NA	Water	SM 5310C	
500-257245-15 MS	SBD-01_20240924	Total/NA	Water	SM 5310C	
500-257245-15 MSD	SBD-01_20240924	Total/NA	Water	SM 5310C	

Analysis Batch: 789532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-1	PNC-01_20240923	Dissolved	Water	SM 5310C	
500-257245-3	DUP-01-SW_20240923	Dissolved	Water	SM 5310C	
500-257245-5	PRC-02_20240923	Dissolved	Water	SM 5310C	
500-257245-7	MLR-03_20240923	Dissolved	Water	SM 5310C	
500-257245-9	NTC-01_20240923	Dissolved	Water	SM 5310C	
500-257245-11	MLR-01_20240923	Dissolved	Water	SM 5310C	
500-257245-13	SBW-01_20240924	Dissolved	Water	SM 5310C	
500-257245-15	SBD-01_20240924	Dissolved	Water	SM 5310C	
500-257245-17	PNC-02_20240924	Dissolved	Water	SM 5310C	
500-257245-19	MLR-02_20240924	Dissolved	Water	SM 5310C	
500-257245-21	PRC-01_20240924	Dissolved	Water	SM 5310C	
500-257245-23	PNC-03_20240924	Dissolved	Water	SM 5310C	
500-257245-25	ARC-03_20240926	Dissolved	Water	SM 5310C	
MB 500-789532/31	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-789532/32	Lab Control Sample	Dissolved	Water	SM 5310C	
500-257245-15 MS	SBD-01_20240924	Dissolved	Water	SM 5310C	
500-257245-15 MSD	SBD-01_20240924	Dissolved	Water	SM 5310C	

Analysis Batch: 789847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-25	ARC-03_20240926	Total/NA	Water	365.1	789343
500-257245-27	CBR-01_20240925	Total/NA	Water	365.1	789343
500-257245-29	DKC-03_20240926	Total/NA	Water	365.1	789343
500-257245-31	ARC-01_20240925	Total/NA	Water	365.1	789343
500-257245-33	PNC-04_20240926	Total/NA	Water	365.1	789343
500-257245-35	ARC-02_20240925	Total/NA	Water	365.1	789343
500-257245-37	MW-43_20240925	Total/NA	Water	365.1	789343
500-257245-39	MW-44_20240925	Total/NA	Water	365.1	789343
500-257245-41	DKC-02_20240925	Total/NA	Water	365.1	789343
MB 500-789343/1-A	Method Blank	Total/NA	Water	365.1	789343

General Chemistry (Continued)

Analysis Batch: 789847 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-789343/2-A	Lab Control Sample	Total/NA	Water	365.1	789343

Analysis Batch: 789903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-19	MLR-02_20240924	Total/NA	Water	SM 5310C	
500-257245-21	PRC-01_20240924	Total/NA	Water	SM 5310C	
500-257245-23	PNC-03_20240924	Total/NA	Water	SM 5310C	
500-257245-25	ARC-03_20240926	Total/NA	Water	SM 5310C	
500-257245-27	CBR-01_20240925	Total/NA	Water	SM 5310C	
500-257245-29	DKC-03_20240926	Total/NA	Water	SM 5310C	
500-257245-31	ARC-01_20240925	Total/NA	Water	SM 5310C	
500-257245-33	PNC-04_20240926	Total/NA	Water	SM 5310C	
500-257245-35	ARC-02_20240925	Total/NA	Water	SM 5310C	
500-257245-37	MW-43_20240925	Total/NA	Water	SM 5310C	
500-257245-39	MW-44_20240925	Total/NA	Water	SM 5310C	
500-257245-41	DKC-02_20240925	Total/NA	Water	SM 5310C	
MB 500-789903/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-789903/8	Lab Control Sample	Total/NA	Water	SM 5310C	
500-257245-27 MS	CBR-01_20240925	Total/NA	Water	SM 5310C	
500-257245-27 MSD	CBR-01_20240925	Total/NA	Water	SM 5310C	

Analysis Batch: 790642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257245-27	CBR-01_20240925	Dissolved	Water	SM 5310C	
500-257245-29	DKC-03_20240926	Dissolved	Water	SM 5310C	
500-257245-31	ARC-01_20240925	Dissolved	Water	SM 5310C	
500-257245-33	PNC-04_20240926	Dissolved	Water	SM 5310C	
500-257245-35	ARC-02_20240925	Dissolved	Water	SM 5310C	
500-257245-37	MW-43_20240925	Dissolved	Water	SM 5310C	
500-257245-39	MW-44_20240925	Dissolved	Water	SM 5310C	
500-257245-41	DKC-02_20240925	Dissolved	Water	SM 5310C	
MB 500-790642/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-790642/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-2895/1-A
Matrix: Water
Analysis Batch: 2935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	0.0233	J	0.050	0.022	ng/L		09/30/24 12:00	10/01/24 15:14	1

Lab Sample ID: MB 350-2895/2-A
Matrix: Water
Analysis Batch: 2935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		09/30/24 12:00	10/01/24 15:24	1

Lab Sample ID: MB 350-2895/3-A
Matrix: Water
Analysis Batch: 2935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		09/30/24 12:00	10/01/24 15:34	1

Lab Sample ID: LCS 350-2895/4-A
Matrix: Water
Analysis Batch: 2935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.826		ng/L		83	65 - 135

Lab Sample ID: LCSD 350-2895/5-A
Matrix: Water
Analysis Batch: 2935

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2895

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.891		ng/L		89	65 - 135	8	35

Lab Sample ID: MB 350-2913/1-A
Matrix: Water
Analysis Batch: 2937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2913

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 16:06	1

Lab Sample ID: MB 350-2913/2-A
Matrix: Water
Analysis Batch: 2937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2913

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 16:16	1

Lab Sample ID: MB 350-2913/3-A
Matrix: Water
Analysis Batch: 2937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2913

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/02/24 10:24	10/02/24 16:26	1

Method: 1630 - Methyl Mercury

Lab Sample ID: LCS 350-2913/4-A
Matrix: Water
Analysis Batch: 2937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2913

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.791		ng/L		79	65 - 135

Lab Sample ID: LCSD 350-2913/5-A
Matrix: Water
Analysis Batch: 2937

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2913

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.961		ng/L		96	65 - 135	20	35

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 2937

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA
Prep Batch: 2913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	<0.022		1.00	0.847		ng/L		85	65 - 135

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 2937

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA
Prep Batch: 2913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	<0.022		1.00	0.846		ng/L		85	65 - 135	0	35

Lab Sample ID: MB 350-2953/1-A
Matrix: Water
Analysis Batch: 2970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/04/24 12:34	10/04/24 18:49	1

Lab Sample ID: MB 350-2953/2-A
Matrix: Water
Analysis Batch: 2970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/04/24 12:34	10/04/24 18:59	1

Lab Sample ID: MB 350-2953/3-A
Matrix: Water
Analysis Batch: 2970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/04/24 12:34	10/04/24 19:10	1

Lab Sample ID: LCS 350-2953/4-A
Matrix: Water
Analysis Batch: 2970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	1.05		ng/L		105	65 - 135

Method: 1630 - Methyl Mercury

Lab Sample ID: LCSD 350-2953/5-A
Matrix: Water
Analysis Batch: 2970

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2953

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury			1.00	0.992		ng/L		99	65 - 135	6	35

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 2937

Client Sample ID: SBD-01_20240924
Prep Type: Dissolved
Prep Batch: 2913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl Mercury	<0.022		1.00	0.961		ng/L		96	65 - 135		

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 2937

Client Sample ID: SBD-01_20240924
Prep Type: Dissolved
Prep Batch: 2913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	<0.022		1.00	0.879		ng/L		88	65 - 135	9	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2922/17
Matrix: Water
Analysis Batch: 2922

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/01/24 13:52	1

Lab Sample ID: MB 350-2922/18
Matrix: Water
Analysis Batch: 2922

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/01/24 13:56	1

Lab Sample ID: MB 350-2922/19
Matrix: Water
Analysis Batch: 2922

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/01/24 14:00	1

Lab Sample ID: MB 350-2922/20
Matrix: Water
Analysis Batch: 2922

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/01/24 14:04	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-2922/23
Matrix: Water
Analysis Batch: 2922

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/01/24 14:17	1

Lab Sample ID: MB 350-2922/24
Matrix: Water
Analysis Batch: 2922

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/01/24 14:21	1

Lab Sample ID: LCS 350-2922/28
Matrix: Water
Analysis Batch: 2922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.42		ng/L		88	77 - 123

Lab Sample ID: LCS 350-2922/30
Matrix: Water
Analysis Batch: 2922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.37		ng/L		87	77 - 123

Lab Sample ID: LCSD 350-2922/29
Matrix: Water
Analysis Batch: 2922

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.31		ng/L		86	77 - 123	3	24

Lab Sample ID: LCSD 350-2922/31
Matrix: Water
Analysis Batch: 2922

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.36		ng/L		87	77 - 123	0	24

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 2922

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	3.4	F1	5.00	4.88	F1	ng/L		30	71 - 125

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 2922

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	3.4	F1	5.00	4.67	F1	ng/L		26	71 - 125

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 2922

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	3.4	F1	5.00	4.90	F1	ng/L		30	71 - 125	0	24

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 2922

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	3.4	F1	5.00	4.61	F1	ng/L		24	71 - 125	6	24

Lab Sample ID: 500-257245-16 MS
Matrix: Water
Analysis Batch: 2922

Client Sample ID: SBD-01_20240924-FBLL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.20		5.00	4.45		ng/L		89	71 - 125

Lab Sample ID: 500-257245-16 MSD
Matrix: Water
Analysis Batch: 2922

Client Sample ID: SBD-01_20240924-FBLL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.20		5.00	4.50		ng/L		90	71 - 125	1	24

Lab Sample ID: MB 350-2975/17
Matrix: Water
Analysis Batch: 2975

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 14:26	1

Lab Sample ID: MB 350-2975/18
Matrix: Water
Analysis Batch: 2975

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 14:30	1

Lab Sample ID: MB 350-2975/19
Matrix: Water
Analysis Batch: 2975

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 14:34	1

Lab Sample ID: MB 350-2975/20
Matrix: Water
Analysis Batch: 2975

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 14:38	1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-2975/23
Matrix: Water
Analysis Batch: 2975

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 14:51	1

Lab Sample ID: MB 350-2975/24
Matrix: Water
Analysis Batch: 2975

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 14:55	1

Lab Sample ID: MB 350-2975/25
Matrix: Water
Analysis Batch: 2975

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 14:59	1

Lab Sample ID: MB 350-2975/26
Matrix: Water
Analysis Batch: 2975

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 15:03	1

Lab Sample ID: MB 350-2975/27
Matrix: Water
Analysis Batch: 2975

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/04/24 15:07	1

Lab Sample ID: LCS 350-2975/28
Matrix: Water
Analysis Batch: 2975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.30		ng/L		86	77 - 123

Lab Sample ID: LCS 350-2975/30
Matrix: Water
Analysis Batch: 2975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.43		ng/L		89	77 - 123

Lab Sample ID: LCS 350-2975/32
Matrix: Water
Analysis Batch: 2975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.40		ng/L		88	77 - 123

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: LCSD 350-2975/29
Matrix: Water
Analysis Batch: 2975

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			5.00	4.43		ng/L		89	77 - 123	3	24

Lab Sample ID: LCSD 350-2975/31
Matrix: Water
Analysis Batch: 2975

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			5.00	4.45		ng/L		89	77 - 123	0	24

Lab Sample ID: LCSD 350-2975/35
Matrix: Water
Analysis Batch: 2975

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			5.00	4.45		ng/L		89	77 - 123	1	24

Lab Sample ID: MB 350-2978/11
Matrix: Water
Analysis Batch: 2978

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/07/24 13:41	1

Lab Sample ID: MB 350-2978/12
Matrix: Water
Analysis Batch: 2978

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/07/24 13:45	1

Lab Sample ID: MB 350-2978/13
Matrix: Water
Analysis Batch: 2978

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/07/24 13:49	1

Lab Sample ID: LCS 350-2978/14
Matrix: Water
Analysis Batch: 2978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			5.00	4.79		ng/L		96	77 - 123

Lab Sample ID: LCSD 350-2978/15
Matrix: Water
Analysis Batch: 2978

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			5.00	5.05		ng/L		101	77 - 123	5	24

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-3001/17
Matrix: Water
Analysis Batch: 3001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/08/24 15:11	1

Lab Sample ID: MB 350-3001/18
Matrix: Water
Analysis Batch: 3001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/08/24 15:16	1

Lab Sample ID: MB 350-3001/21
Matrix: Water
Analysis Batch: 3001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/08/24 15:28	1

Lab Sample ID: MB 350-3001/22
Matrix: Water
Analysis Batch: 3001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/08/24 15:32	1

Lab Sample ID: MB 350-3001/23
Matrix: Water
Analysis Batch: 3001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/08/24 15:36	1

Lab Sample ID: MB 350-3001/24
Matrix: Water
Analysis Batch: 3001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/08/24 15:41	1

Lab Sample ID: LCS 350-3001/28
Matrix: Water
Analysis Batch: 3001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.66		ng/L		93	77 - 123

Lab Sample ID: LCS 350-3001/30
Matrix: Water
Analysis Batch: 3001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.79		ng/L		96	77 - 123

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: LCSD 350-3001/29
Matrix: Water
Analysis Batch: 3001

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			5.00	4.69		ng/L		94	77 - 123	1	24

Lab Sample ID: LCSD 350-3001/33
Matrix: Water
Analysis Batch: 3001

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			5.00	4.77		ng/L		95	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-2879/1-A
Matrix: Water
Analysis Batch: 2897

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		09/27/24 10:40	09/27/24 17:12	1

Lab Sample ID: MB 350-2879/2-A
Matrix: Water
Analysis Batch: 2897

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		09/27/24 10:40	09/27/24 17:16	1

Lab Sample ID: LCS 350-2879/3-A
Matrix: Water
Analysis Batch: 2897

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2879

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium			25.0	24.2		ug/L		97	85 - 115		

Lab Sample ID: LCSD 350-2879/4-A
Matrix: Water
Analysis Batch: 2897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2879

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium			25.0	23.5		ug/L		94	85 - 115	3	20

Lab Sample ID: MB 350-2915/1-A
Matrix: Water
Analysis Batch: 2943

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/02/24 10:55	10/02/24 18:23	1

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 350-2915/2-A
Matrix: Water
Analysis Batch: 2943

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/02/24 10:55	10/02/24 18:27	1

Lab Sample ID: LCS 350-2915/3-A
Matrix: Water
Analysis Batch: 2943

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	24.4		ug/L		98	85 - 115

Lab Sample ID: LCSD 350-2915/4-A
Matrix: Water
Analysis Batch: 2943

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2915

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	26.4		ug/L		105	85 - 115	8	20

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 2943

Client Sample ID: SBD-01_20240924
Prep Type: Total Recoverable
Prep Batch: 2915

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	0.064		25.0	26.2		ug/L		104	70 - 130

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 2943

Client Sample ID: SBD-01_20240924
Prep Type: Total Recoverable
Prep Batch: 2915

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	0.064		25.0	26.0		ug/L		104	70 - 130	1	20

Lab Sample ID: MB 350-2981/1-A
Matrix: Water
Analysis Batch: 2993

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0224	J	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 19:17	1

Lab Sample ID: MB 350-2981/2-A
Matrix: Water
Analysis Batch: 2993

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 2981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0124	J	0.050	0.0098	ug/L		10/08/24 12:42	10/08/24 19:20	1

Lab Sample ID: LCS 350-2981/3-A
Matrix: Water
Analysis Batch: 2993

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 2981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	24.0		ug/L		96	85 - 115

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: LCSD 350-2981/4-A
Matrix: Water
Analysis Batch: 2993

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 2981

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium			25.0	24.1		ug/L		97	85 - 115	1	20

Lab Sample ID: 500-257245-41 MS
Matrix: Water
Analysis Batch: 2993

Client Sample ID: DKC-02_20240925
Prep Type: Total Recoverable
Prep Batch: 2981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	0.30	B	25.0	24.8		ug/L		98	70 - 130

Lab Sample ID: 500-257245-41 MSD
Matrix: Water
Analysis Batch: 2993

Client Sample ID: DKC-02_20240925
Prep Type: Total Recoverable
Prep Batch: 2981

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	0.30	B	25.0	24.8		ug/L		98	70 - 130	0	20

Lab Sample ID: 500-257245-1 MS
Matrix: Water
Analysis Batch: 2897

Client Sample ID: PNC-01_20240923
Prep Type: Dissolved
Prep Batch: 2879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	0.083		25.0	23.5		ug/L		94	70 - 130

Lab Sample ID: 500-257245-1 MSD
Matrix: Water
Analysis Batch: 2897

Client Sample ID: PNC-01_20240923
Prep Type: Dissolved
Prep Batch: 2879

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	0.083		25.0	23.3		ug/L		93	70 - 130	1	20

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 2943

Client Sample ID: SBD-01_20240924
Prep Type: Dissolved
Prep Batch: 2915

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	0.050		25.0	26.6		ug/L		106	70 - 130

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 2943

Client Sample ID: SBD-01_20240924
Prep Type: Dissolved
Prep Batch: 2915

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	0.050		25.0	26.7		ug/L		107	70 - 130	0	20

Lab Sample ID: 500-257245-25 MS
Matrix: Water
Analysis Batch: 2993

Client Sample ID: ARC-03_20240926
Prep Type: Dissolved
Prep Batch: 2981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	0.42	B	25.0	25.2		ug/L		99	70 - 130

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: 500-257245-25 MSD
Matrix: Water
Analysis Batch: 2993

Client Sample ID: ARC-03_20240926
Prep Type: Dissolved
Prep Batch: 2981

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	0.42	B	25.0	24.9		ug/L		98	70 - 130	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-788713/1-A
Matrix: Water
Analysis Batch: 789324

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 788713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/02/24 09:17	10/04/24 20:07	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:07	1
Arsenic	<0.23		1.0	0.23	ug/L		10/02/24 09:17	10/04/24 20:07	1
Barium	<0.73		2.5	0.73	ug/L		10/02/24 09:17	10/04/24 20:07	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/02/24 09:17	10/04/24 20:07	1
Boron	26.5	J	50	13	ug/L		10/02/24 09:17	10/04/24 20:07	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/24 09:17	10/04/24 20:07	1
Calcium	<44		200	44	ug/L		10/02/24 09:17	10/04/24 20:07	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/24 09:17	10/04/24 20:07	1
Cobalt	<0.40		1.0	0.40	ug/L		10/02/24 09:17	10/04/24 20:07	1
Copper	<0.50		2.0	0.50	ug/L		10/02/24 09:17	10/04/24 20:07	1
Iron	<47		100	47	ug/L		10/02/24 09:17	10/04/24 20:07	1
Lead	<0.19		0.50	0.19	ug/L		10/02/24 09:17	10/04/24 20:07	1
Lithium	<2.5		10	2.5	ug/L		10/02/24 09:17	10/04/24 20:07	1
Magnesium	<49		200	49	ug/L		10/02/24 09:17	10/04/24 20:07	1
Manganese	0.981	J	2.5	0.79	ug/L		10/02/24 09:17	10/04/24 20:07	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/02/24 09:17	10/04/24 20:07	1
Nickel	<0.63		2.0	0.63	ug/L		10/02/24 09:17	10/04/24 20:07	1
Potassium	<110		500	110	ug/L		10/02/24 09:17	10/04/24 20:07	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/24 09:17	10/04/24 20:07	1
Silver	<0.12		0.50	0.12	ug/L		10/02/24 09:17	10/04/24 20:07	1
Sodium	<77		200	77	ug/L		10/02/24 09:17	10/04/24 20:07	1
Strontium	<0.64		4.0	0.64	ug/L		10/02/24 09:17	10/04/24 20:07	1
Thallium	<0.57		2.0	0.57	ug/L		10/02/24 09:17	10/04/24 20:07	1
Tin	<1.3		5.0	1.3	ug/L		10/02/24 09:17	10/04/24 20:07	1
Vanadium	<2.2		5.0	2.2	ug/L		10/02/24 09:17	10/04/24 20:07	1
Zinc	<6.9		20	6.9	ug/L		10/02/24 09:17	10/04/24 20:07	1

Lab Sample ID: LCS 500-788713/2-A
Matrix: Water
Analysis Batch: 789324

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 788713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2050		ug/L		102	80 - 120
Antimony	500	531	^1+	ug/L		106	80 - 120
Arsenic	100	100		ug/L		100	80 - 120
Barium	500	520		ug/L		104	80 - 120
Beryllium	50.0	54.7	^1+	ug/L		109	80 - 120
Boron	1000	1070		ug/L		107	80 - 120
Cadmium	50.0	52.6		ug/L		105	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-788713/2-A
Matrix: Water
Analysis Batch: 789324

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 788713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	10000	9810		ug/L		98	80 - 120
Chromium	200	213		ug/L		107	80 - 120
Cobalt	500	550		ug/L		110	80 - 120
Copper	250	262		ug/L		105	80 - 120
Iron	1000	1080		ug/L		108	80 - 120
Lead	100	104		ug/L		104	80 - 120
Lithium	100	111		ug/L		111	80 - 120
Magnesium	10000	10800		ug/L		108	80 - 120
Manganese	500	530		ug/L		106	80 - 120
Molybdenum	1000	1030		ug/L		103	80 - 120
Nickel	500	522		ug/L		104	80 - 120
Potassium	10000	10800		ug/L		108	80 - 120
Selenium	100	99.6		ug/L		100	80 - 120
Silver	50.0	52.7		ug/L		105	80 - 120
Sodium	10000	10700		ug/L		107	80 - 120
Strontium	1000	1010		ug/L		101	80 - 120
Thallium	100	102		ug/L		102	80 - 120
Tin	1000	1040		ug/L		104	80 - 120
Vanadium	500	524		ug/L		105	80 - 120
Zinc	500	519		ug/L		104	80 - 120

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 789324

Client Sample ID: SBD-01_20240924
Prep Type: Total Recoverable
Prep Batch: 788713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	280		2000	2420		ug/L		107	75 - 125
Antimony	<1.3	^1+	500	528	^1+	ug/L		106	75 - 125
Arsenic	0.54	J	100	101		ug/L		101	75 - 125
Barium	39		500	554		ug/L		103	75 - 125
Beryllium	<0.53	^1+	50.0	54.2	^1+	ug/L		108	75 - 125
Boron	52	B	1000	1130		ug/L		108	75 - 125
Cadmium	<0.17		50.0	52.1		ug/L		104	75 - 125
Calcium	35000		10000	44000		ug/L		90	75 - 125
Chromium	<1.1		200	211		ug/L		106	75 - 125
Cobalt	<0.40		500	546		ug/L		109	75 - 125
Copper	1.0	J	250	263		ug/L		105	75 - 125
Iron	960		1000	1950		ug/L		98	75 - 125
Lead	<0.19		100	104		ug/L		104	75 - 125
Lithium	7.2	J	100	121		ug/L		114	75 - 125
Magnesium	6600		10000	17000		ug/L		104	75 - 125
Manganese	72	B	500	605		ug/L		107	75 - 125
Molybdenum	<2.5		1000	1030		ug/L		103	75 - 125
Nickel	<0.63		500	523		ug/L		105	75 - 125
Potassium	1100		10000	11800		ug/L		108	75 - 125
Selenium	<0.98		100	102		ug/L		102	75 - 125
Silver	<0.12		50.0	52.7		ug/L		105	75 - 125
Sodium	5300		10000	15800		ug/L		105	75 - 125
Strontium	170		1000	1170		ug/L		100	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 789324

Client Sample ID: SBD-01_20240924
Prep Type: Total Recoverable
Prep Batch: 788713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	<0.57		100	102		ug/L		102	75 - 125
Tin	<1.3		1000	1050		ug/L		105	75 - 125
Vanadium	<2.2		500	527		ug/L		105	75 - 125
Zinc	<6.9		500	515		ug/L		103	75 - 125

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 789324

Client Sample ID: SBD-01_20240924
Prep Type: Total Recoverable
Prep Batch: 788713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	280		2000	2400		ug/L		106	75 - 125	1	20
Antimony	<1.3	^1+	500	528	^1+	ug/L		106	75 - 125	0	20
Arsenic	0.54	J	100	99.9		ug/L		99	75 - 125	1	20
Barium	39		500	552		ug/L		103	75 - 125	0	20
Beryllium	<0.53	^1+	50.0	55.4	^1+	ug/L		111	75 - 125	2	20
Boron	52	B	1000	1140		ug/L		109	75 - 125	1	20
Cadmium	<0.17		50.0	52.0		ug/L		104	75 - 125	0	20
Calcium	35000		10000	44300		ug/L		93	75 - 125	1	20
Chromium	<1.1		200	214		ug/L		107	75 - 125	1	20
Cobalt	<0.40		500	547		ug/L		109	75 - 125	0	20
Copper	1.0	J	250	260		ug/L		104	75 - 125	1	20
Iron	960		1000	1940		ug/L		98	75 - 125	0	20
Lead	<0.19		100	104		ug/L		104	75 - 125	1	20
Lithium	7.2	J	100	122		ug/L		115	75 - 125	1	20
Magnesium	6600		10000	17100		ug/L		105	75 - 125	0	20
Manganese	72	B	500	595		ug/L		105	75 - 125	2	20
Molybdenum	<2.5		1000	1020		ug/L		102	75 - 125	1	20
Nickel	<0.63		500	517		ug/L		103	75 - 125	1	20
Potassium	1100		10000	11800		ug/L		107	75 - 125	0	20
Selenium	<0.98		100	102		ug/L		102	75 - 125	0	20
Silver	<0.12		50.0	52.4		ug/L		105	75 - 125	1	20
Sodium	5300		10000	15700		ug/L		104	75 - 125	0	20
Strontium	170		1000	1170		ug/L		100	75 - 125	0	20
Thallium	<0.57		100	102		ug/L		102	75 - 125	0	20
Tin	<1.3		1000	1040		ug/L		104	75 - 125	1	20
Vanadium	<2.2		500	527		ug/L		105	75 - 125	0	20
Zinc	<6.9		500	512		ug/L		102	75 - 125	1	20

Lab Sample ID: 500-257245-15 DU
Matrix: Water
Analysis Batch: 789324

Client Sample ID: SBD-01_20240924
Prep Type: Total Recoverable
Prep Batch: 788713

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	280		290		ug/L		2	20
Antimony	<1.3	^1+	<1.3	^1+	ug/L		NC	20
Arsenic	0.54	J	0.524	J	ug/L		2	20
Barium	39		38.0		ug/L		2	20
Beryllium	<0.53	^1+	<0.53	^1+	ug/L		NC	20
Boron	52	B	51.7		ug/L		0.1	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-257245-15 DU
Matrix: Water
Analysis Batch: 789324

Client Sample ID: SBD-01_20240924
Prep Type: Total Recoverable
Prep Batch: 788713

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	<0.17		<0.17		ug/L		NC	20
Calcium	35000		34000		ug/L		3	20
Chromium	<1.1		<1.1		ug/L		NC	20
Cobalt	<0.40		<0.40		ug/L		NC	20
Copper	1.0	J	0.887	J	ug/L		14	20
Iron	960		934		ug/L		3	20
Lead	<0.19		<0.19		ug/L		NC	20
Lithium	7.2	J	7.19	J	ug/L		0.6	20
Magnesium	6600		6360		ug/L		4	20
Manganese	72	B	69.6		ug/L		3	20
Molybdenum	<2.5		<2.5		ug/L		NC	20
Nickel	<0.63		<0.63		ug/L		NC	20
Potassium	1100		1010		ug/L		4	20
Selenium	<0.98		<0.98		ug/L		NC	20
Silver	<0.12		<0.12		ug/L		NC	20
Sodium	5300		5110		ug/L		3	20
Strontium	170		166		ug/L		3	20
Thallium	<0.57		<0.57		ug/L		NC	20
Tin	<1.3		<1.3		ug/L		NC	20
Vanadium	<2.2		<2.2		ug/L		NC	20
Zinc	<6.9		<6.9		ug/L		NC	20

Lab Sample ID: MB 500-788879/1-A
Matrix: Water
Analysis Batch: 789324

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 788879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 08:59	10/04/24 18:55	1
Antimony	1.55	J ^1+	3.0	1.3	ug/L		10/03/24 08:59	10/04/24 18:55	1
Arsenic	<0.23		1.0	0.23	ug/L		10/03/24 08:59	10/04/24 18:55	1
Barium	<0.73		2.5	0.73	ug/L		10/03/24 08:59	10/04/24 18:55	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 08:59	10/04/24 18:55	1
Boron	27.5	J	50	13	ug/L		10/03/24 08:59	10/04/24 18:55	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 08:59	10/04/24 18:55	1
Calcium	<44		200	44	ug/L		10/03/24 08:59	10/04/24 18:55	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 08:59	10/04/24 18:55	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 08:59	10/04/24 18:55	1
Copper	<0.50		2.0	0.50	ug/L		10/03/24 08:59	10/04/24 18:55	1
Iron	<47		100	47	ug/L		10/03/24 08:59	10/04/24 18:55	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 08:59	10/04/24 18:55	1
Lithium	<2.5		10	2.5	ug/L		10/03/24 08:59	10/04/24 18:55	1
Magnesium	<49		200	49	ug/L		10/03/24 08:59	10/04/24 18:55	1
Manganese	<0.79		2.5	0.79	ug/L		10/03/24 08:59	10/04/24 18:55	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 08:59	10/04/24 18:55	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 08:59	10/04/24 18:55	1
Potassium	<110		500	110	ug/L		10/03/24 08:59	10/04/24 18:55	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 08:59	10/04/24 18:55	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 08:59	10/04/24 18:55	1
Sodium	<77		200	77	ug/L		10/03/24 08:59	10/04/24 18:55	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-788879/1-A
Matrix: Water
Analysis Batch: 789324

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 788879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Strontium	<0.64		4.0	0.64	ug/L		10/03/24 08:59	10/04/24 18:55	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 08:59	10/04/24 18:55	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 08:59	10/04/24 18:55	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 08:59	10/04/24 18:55	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 08:59	10/04/24 18:55	1

Lab Sample ID: LCS 500-788879/2-A
Matrix: Water
Analysis Batch: 789324

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 788879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2040		ug/L		102	80 - 120
Antimony	500	514	^1+	ug/L		103	80 - 120
Arsenic	100	98.2		ug/L		98	80 - 120
Barium	500	512		ug/L		102	80 - 120
Beryllium	50.0	52.9	^1+	ug/L		106	80 - 120
Boron	1000	1060		ug/L		106	80 - 120
Cadmium	50.0	51.1		ug/L		102	80 - 120
Calcium	10000	9730		ug/L		97	80 - 120
Chromium	200	210		ug/L		105	80 - 120
Cobalt	500	543		ug/L		109	80 - 120
Copper	250	256		ug/L		102	80 - 120
Iron	1000	1060		ug/L		106	80 - 120
Lead	100	103		ug/L		103	80 - 120
Lithium	100	112		ug/L		112	80 - 120
Magnesium	10000	10800		ug/L		108	80 - 120
Manganese	500	522		ug/L		104	80 - 120
Molybdenum	1000	1010		ug/L		101	80 - 120
Nickel	500	516		ug/L		103	80 - 120
Potassium	10000	10600		ug/L		106	80 - 120
Selenium	100	99.3		ug/L		99	80 - 120
Silver	50.0	52.0		ug/L		104	80 - 120
Sodium	10000	10700		ug/L		107	80 - 120
Strontium	1000	985		ug/L		99	80 - 120
Thallium	100	101		ug/L		101	80 - 120
Tin	1000	1010		ug/L		101	80 - 120
Vanadium	500	517		ug/L		103	80 - 120
Zinc	500	507		ug/L		101	80 - 120

Lab Sample ID: MB 500-788880/1-A
Matrix: Water
Analysis Batch: 789512

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 788880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/03/24 09:00	10/07/24 12:39	1
Antimony	<1.3	^1+	3.0	1.3	ug/L		10/03/24 09:00	10/07/24 12:39	1
Arsenic	<0.23		1.0	0.23	ug/L		10/03/24 09:00	10/07/24 12:39	1
Barium	<0.73		2.5	0.73	ug/L		10/03/24 09:00	10/07/24 12:39	1
Beryllium	<0.53	^1+	1.0	0.53	ug/L		10/03/24 09:00	10/07/24 12:39	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-788880/1-A
Matrix: Water
Analysis Batch: 789512

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 788880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	28.2	J	50	13	ug/L		10/03/24 09:00	10/07/24 12:39	1
Cadmium	<0.17		0.50	0.17	ug/L		10/03/24 09:00	10/07/24 12:39	1
Calcium	<44		200	44	ug/L		10/03/24 09:00	10/07/24 12:39	1
Chromium	<1.1		5.0	1.1	ug/L		10/03/24 09:00	10/07/24 12:39	1
Cobalt	<0.40		1.0	0.40	ug/L		10/03/24 09:00	10/07/24 12:39	1
Copper	<0.50		2.0	0.50	ug/L		10/03/24 09:00	10/07/24 12:39	1
Iron	<47		100	47	ug/L		10/03/24 09:00	10/07/24 12:39	1
Lead	<0.19		0.50	0.19	ug/L		10/03/24 09:00	10/07/24 12:39	1
Lithium	<2.5		10	2.5	ug/L		10/03/24 09:00	10/07/24 12:39	1
Magnesium	<49		200	49	ug/L		10/03/24 09:00	10/07/24 12:39	1
Manganese	<0.79		2.5	0.79	ug/L		10/03/24 09:00	10/07/24 12:39	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/03/24 09:00	10/07/24 12:39	1
Nickel	<0.63		2.0	0.63	ug/L		10/03/24 09:00	10/07/24 12:39	1
Potassium	<110		500	110	ug/L		10/03/24 09:00	10/07/24 12:39	1
Selenium	<0.98		2.5	0.98	ug/L		10/03/24 09:00	10/07/24 12:39	1
Silver	<0.12		0.50	0.12	ug/L		10/03/24 09:00	10/07/24 12:39	1
Sodium	<77		200	77	ug/L		10/03/24 09:00	10/07/24 12:39	1
Strontium	<0.64		4.0	0.64	ug/L		10/03/24 09:00	10/07/24 12:39	1
Thallium	<0.57		2.0	0.57	ug/L		10/03/24 09:00	10/07/24 12:39	1
Tin	<1.3		5.0	1.3	ug/L		10/03/24 09:00	10/07/24 12:39	1
Vanadium	<2.2		5.0	2.2	ug/L		10/03/24 09:00	10/07/24 12:39	1
Zinc	<6.9		20	6.9	ug/L		10/03/24 09:00	10/07/24 12:39	1

Lab Sample ID: LCS 500-788880/2-A
Matrix: Water
Analysis Batch: 789512

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 788880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1990		ug/L		99	80 - 120
Antimony	500	498	^1+	ug/L		100	80 - 120
Arsenic	100	97.7		ug/L		98	80 - 120
Barium	500	510		ug/L		102	80 - 120
Beryllium	50.0	51.5	^1+	ug/L		103	80 - 120
Boron	1000	1000		ug/L		100	80 - 120
Cadmium	50.0	50.1		ug/L		100	80 - 120
Calcium	10000	9470		ug/L		95	80 - 120
Chromium	200	209		ug/L		105	80 - 120
Cobalt	500	545		ug/L		109	80 - 120
Copper	250	258		ug/L		103	80 - 120
Iron	1000	1070		ug/L		107	80 - 120
Lead	100	101		ug/L		101	80 - 120
Lithium	100	109		ug/L		109	80 - 120
Magnesium	10000	10700		ug/L		107	80 - 120
Manganese	500	523		ug/L		105	80 - 120
Molybdenum	1000	983		ug/L		98	80 - 120
Nickel	500	514		ug/L		103	80 - 120
Potassium	10000	10700		ug/L		107	80 - 120
Selenium	100	97.8		ug/L		98	80 - 120
Silver	50.0	51.4		ug/L		103	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-788880/2-A
Matrix: Water
Analysis Batch: 789512

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 788880

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sodium			10000	10700		ug/L		107	80 - 120		
Strontium			1000	967		ug/L		97	80 - 120		
Thallium			100	98.8		ug/L		99	80 - 120		
Tin			1000	984		ug/L		98	80 - 120		
Vanadium			500	524		ug/L		105	80 - 120		
Zinc			500	507		ug/L		101	80 - 120		

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 789324

Client Sample ID: SBD-01_20240924
Prep Type: Dissolved
Prep Batch: 788879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum	<25		2000	2010		ug/L		101	75 - 125		
Antimony	<1.3	^1+	500	512	^1+	ug/L		102	75 - 125		
Arsenic	0.43	J	100	98.8		ug/L		98	75 - 125		
Barium	35		500	541		ug/L		101	75 - 125		
Beryllium	<0.53	^1+	50.0	52.4	^1+	ug/L		105	75 - 125		
Boron	54	B	1000	1090		ug/L		103	75 - 125		
Cadmium	<0.17		50.0	50.7		ug/L		101	75 - 125		
Calcium	35000		10000	43800		ug/L		92	75 - 125		
Chromium	<1.1		200	206		ug/L		103	75 - 125		
Cobalt	<0.40		500	534		ug/L		107	75 - 125		
Copper	<0.50		250	256		ug/L		102	75 - 125		
Iron	78	J	1000	1140		ug/L		106	75 - 125		
Lead	<0.19		100	102		ug/L		102	75 - 125		
Lithium	7.3	J	100	116		ug/L		109	75 - 125		
Magnesium	6300		10000	16600		ug/L		103	75 - 125		
Manganese	32		500	547		ug/L		103	75 - 125		
Molybdenum	<2.5		1000	1010		ug/L		101	75 - 125		
Nickel	<0.63		500	509		ug/L		102	75 - 125		
Potassium	960		10000	11500		ug/L		105	75 - 125		
Selenium	<0.98		100	101		ug/L		101	75 - 125		
Silver	<0.12		50.0	51.3		ug/L		103	75 - 125		
Sodium	5100		10000	15400		ug/L		103	75 - 125		
Strontium	170		1000	1150		ug/L		98	75 - 125		
Thallium	<0.57		100	100		ug/L		100	75 - 125		
Tin	<1.3		1000	1010		ug/L		101	75 - 125		
Vanadium	<2.2		500	514		ug/L		103	75 - 125		
Zinc	<6.9		500	502		ug/L		100	75 - 125		

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 789324

Client Sample ID: SBD-01_20240924
Prep Type: Dissolved
Prep Batch: 788879

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	<25		2000	2040		ug/L		102	75 - 125	1	20
Antimony	<1.3	^1+	500	532	^1+	ug/L		106	75 - 125	4	20
Arsenic	0.43	J	100	102		ug/L		101	75 - 125	3	20
Barium	35		500	550		ug/L		103	75 - 125	2	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 789324

Client Sample ID: SBD-01_20240924
Prep Type: Dissolved
Prep Batch: 788879

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.53	^1+	50.0	53.4	^1+	ug/L		107	75 - 125	2	20
Boron	54	B	1000	1120		ug/L		107	75 - 125	3	20
Cadmium	<0.17		50.0	52.7		ug/L		105	75 - 125	4	20
Calcium	35000		10000	43800		ug/L		93	75 - 125	0	20
Chromium	<1.1		200	211		ug/L		106	75 - 125	2	20
Cobalt	<0.40		500	546		ug/L		109	75 - 125	2	20
Copper	<0.50		250	264		ug/L		106	75 - 125	3	20
Iron	78	J	1000	1170		ug/L		109	75 - 125	2	20
Lead	<0.19		100	104		ug/L		104	75 - 125	2	20
Lithium	7.3	J	100	122		ug/L		114	75 - 125	5	20
Magnesium	6300		10000	17000		ug/L		106	75 - 125	2	20
Manganese	32		500	561		ug/L		106	75 - 125	2	20
Molybdenum	<2.5		1000	1030		ug/L		103	75 - 125	2	20
Nickel	<0.63		500	523		ug/L		105	75 - 125	3	20
Potassium	960		10000	11800		ug/L		108	75 - 125	3	20
Selenium	<0.98		100	103		ug/L		103	75 - 125	1	20
Silver	<0.12		50.0	53.3		ug/L		107	75 - 125	4	20
Sodium	5100		10000	15700		ug/L		105	75 - 125	1	20
Strontium	170		1000	1180		ug/L		101	75 - 125	3	20
Thallium	<0.57		100	102		ug/L		102	75 - 125	2	20
Tin	<1.3		1000	1050		ug/L		105	75 - 125	4	20
Vanadium	<2.2		500	528		ug/L		106	75 - 125	3	20
Zinc	<6.9		500	519		ug/L		104	75 - 125	3	20

Lab Sample ID: 500-257245-15 DU
Matrix: Water
Analysis Batch: 789324

Client Sample ID: SBD-01_20240924
Prep Type: Dissolved
Prep Batch: 788879

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	<25		<25		ug/L		NC	20
Antimony	<1.3	^1+	<1.3	^1+	ug/L		NC	20
Arsenic	0.43	J	0.461	J	ug/L		6	20
Barium	35		34.4		ug/L		0.3	20
Beryllium	<0.53	^1+	<0.53	^1+	ug/L		NC	20
Boron	54	B	51.9		ug/L		4	20
Cadmium	<0.17		<0.17		ug/L		NC	20
Calcium	35000		34500		ug/L		0.08	20
Chromium	<1.1		<1.1		ug/L		NC	20
Cobalt	<0.40		<0.40		ug/L		NC	20
Copper	<0.50		<0.50		ug/L		NC	20
Iron	78	J	83.2	J	ug/L		7	20
Lead	<0.19		<0.19		ug/L		NC	20
Lithium	7.3	J	7.59	J	ug/L		3	20
Magnesium	6300		6270		ug/L		1	20
Manganese	32		31.8		ug/L		0.9	20
Molybdenum	<2.5		<2.5		ug/L		NC	20
Nickel	<0.63		<0.63		ug/L		NC	20
Potassium	960		963		ug/L		0.2	20
Selenium	<0.98		<0.98		ug/L		NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-257245-15 DU
Matrix: Water
Analysis Batch: 789324

Client Sample ID: SBD-01_20240924
Prep Type: Dissolved
Prep Batch: 788879

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	<0.12		<0.12		ug/L		NC	20
Sodium	5100		5120		ug/L		0.4	20
Strontium	170		169		ug/L		0.1	20
Thallium	<0.57		<0.57		ug/L		NC	20
Tin	<1.3		<1.3		ug/L		NC	20
Vanadium	<2.2		<2.2		ug/L		NC	20
Zinc	<6.9		<6.9		ug/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-787648/3
Matrix: Water
Analysis Batch: 787648

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			09/25/24 09:15	1
Chloride	0.230	J	1.0	0.12	mg/L			09/25/24 09:15	1
Fluoride	<0.19		1.0	0.19	mg/L			09/25/24 09:15	1
Sulfate	<0.21		1.0	0.21	mg/L			09/25/24 09:15	1

Lab Sample ID: LCS 500-787648/4
Matrix: Water
Analysis Batch: 787648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.2		mg/L		96	90 - 110
Chloride	20.0	19.3		mg/L		96	90 - 110
Fluoride	20.0	20.4		mg/L		102	90 - 110
Sulfate	20.0	20.5		mg/L		102	90 - 110

Lab Sample ID: MB 500-787649/3
Matrix: Water
Analysis Batch: 787649

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			09/25/24 09:15	1
Nitrite as N	<0.070		1.0	0.070	mg/L			09/25/24 09:15	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			09/25/24 09:15	1

Lab Sample ID: LCS 500-787649/4
Matrix: Water
Analysis Batch: 787649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	18.8		mg/L		94	90 - 110
Nitrite as N	20.0	20.9		mg/L		104	90 - 110
Nitrate Nitrite as N	40.0	39.7		mg/L		99	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-787874/3
Matrix: Water
Analysis Batch: 787874

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			09/26/24 09:56	1
Chloride	0.233	J	1.0	0.12	mg/L			09/26/24 09:56	1
Fluoride	<0.19		1.0	0.19	mg/L			09/26/24 09:56	1
Sulfate	<0.21		1.0	0.21	mg/L			09/26/24 09:56	1

Lab Sample ID: LCS 500-787874/4
Matrix: Water
Analysis Batch: 787874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			20.0	19.1		mg/L		96	90 - 110		
Chloride			20.0	19.2		mg/L		96	90 - 110		
Fluoride			20.0	21.3		mg/L		106	90 - 110		
Sulfate			20.0	20.6		mg/L		103	90 - 110		

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 787874

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide	<0.18		10.0	9.57		mg/L		96	80 - 120		
Chloride	5.4	B	10.0	14.6		mg/L		92	80 - 120		
Fluoride	0.51	J	10.0	10.5		mg/L		100	80 - 120		
Sulfate	0.25	J	10.0	10.4		mg/L		101	80 - 120		

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 787874

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	<0.18		10.0	9.49		mg/L		95	80 - 120	1	20
Chloride	5.4	B	10.0	14.5		mg/L		91	80 - 120	0	20
Fluoride	0.51	J	10.0	10.5		mg/L		100	80 - 120	0	20
Sulfate	0.25	J	10.0	10.4		mg/L		101	80 - 120	0	20

Lab Sample ID: MB 500-787875/3
Matrix: Water
Analysis Batch: 787875

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			09/26/24 09:56	1
Nitrite as N	<0.070		1.0	0.070	mg/L			09/26/24 09:56	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			09/26/24 09:56	1

Lab Sample ID: LCS 500-787875/4
Matrix: Water
Analysis Batch: 787875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			20.0	19.0		mg/L		95	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-787875/4
Matrix: Water
Analysis Batch: 787875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	20.0	21.1		mg/L		105	90 - 110
Nitrate Nitrite as N	40.0	40.1		mg/L		100	90 - 110

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 787875

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	<0.043	H3	10.0	9.02	H3	mg/L		90	80 - 120
Nitrite as N	<0.070	H3	10.0	9.92	H3	mg/L		99	80 - 120
Nitrate Nitrite as N	<0.070	H3	20.0	18.9	H3	mg/L		95	80 - 120

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 787875

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.043	H3	10.0	8.97	H3	mg/L		90	80 - 120	0	20
Nitrite as N	<0.070	H3	10.0	9.91	H3	mg/L		99	80 - 120	0	20
Nitrate Nitrite as N	<0.070	H3	20.0	18.9	H3	mg/L		94	80 - 120	0	20

Lab Sample ID: MB 500-788071/3
Matrix: Water
Analysis Batch: 788071

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			09/27/24 10:35	1
Chloride	0.227	J	1.0	0.12	mg/L			09/27/24 10:35	1
Fluoride	<0.19		1.0	0.19	mg/L			09/27/24 10:35	1
Sulfate	<0.21		1.0	0.21	mg/L			09/27/24 10:35	1

Lab Sample ID: LCS 500-788071/4
Matrix: Water
Analysis Batch: 788071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.2		mg/L		96	90 - 110
Chloride	20.0	19.2		mg/L		96	90 - 110
Fluoride	20.0	21.6		mg/L		108	90 - 110
Sulfate	20.0	20.7		mg/L		104	90 - 110

Lab Sample ID: 500-257245-33 MS
Matrix: Water
Analysis Batch: 788071

Client Sample ID: PNC-04_20240926
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.63	J	10.0	10.5		mg/L		98	80 - 120
Fluoride	<0.19		10.0	10.9		mg/L		109	80 - 120
Sulfate	0.87	J	10.0	11.3		mg/L		104	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-257245-33 MSD
Matrix: Water
Analysis Batch: 788071

Client Sample ID: PNC-04_20240926
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.63	J	10.0	10.1		mg/L		95	80 - 120	3	20
Fluoride	<0.19		10.0	10.6		mg/L		106	80 - 120	2	20
Sulfate	0.87	J	10.0	11.0		mg/L		101	80 - 120	3	20

Lab Sample ID: MB 500-788072/3
Matrix: Water
Analysis Batch: 788072

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			09/27/24 10:35	1
Nitrite as N	<0.070		1.0	0.070	mg/L			09/27/24 10:35	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			09/27/24 10:35	1

Lab Sample ID: LCS 500-788072/4
Matrix: Water
Analysis Batch: 788072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.0		mg/L		95	90 - 110
Nitrite as N	20.0	21.1		mg/L		106	90 - 110
Nitrate Nitrite as N	40.0	40.1		mg/L		100	90 - 110

Lab Sample ID: 500-257245-33 MS
Matrix: Water
Analysis Batch: 788072

Client Sample ID: PNC-04_20240926
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.44	J	10.0	9.39		mg/L		90	80 - 120
Nitrite as N	<0.070		10.0	10.2		mg/L		102	80 - 120
Nitrate Nitrite as N	0.44	J	20.0	19.6		mg/L		96	80 - 120

Lab Sample ID: 500-257245-33 MSD
Matrix: Water
Analysis Batch: 788072

Client Sample ID: PNC-04_20240926
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.44	J	10.0	9.16		mg/L		87	80 - 120	3	20
Nitrite as N	<0.070		10.0	9.93		mg/L		99	80 - 120	3	20
Nitrate Nitrite as N	0.44	J	20.0	19.1		mg/L		93	80 - 120	3	20

Lab Sample ID: MB 500-788852/28
Matrix: Water
Analysis Batch: 788852

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			10/03/24 15:15	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-788852/31
Matrix: Water
Analysis Batch: 788852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.7		mg/L		98	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-788209/1-A
Matrix: Water
Analysis Batch: 788411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		09/29/24 08:52	09/30/24 10:57	1

Lab Sample ID: LCS 500-788209/2-A
Matrix: Water
Analysis Batch: 788411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0990		mg/L		99	90 - 110

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 788411

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA
Prep Batch: 788209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.0036		0.100	0.109		mg/L		109	90 - 110

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 788411

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA
Prep Batch: 788209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.0036		0.100	0.105		mg/L		105	90 - 110	4	20

Lab Sample ID: MB 500-788770/1-A
Matrix: Water
Analysis Batch: 788884

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788770

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		10/02/24 14:08	10/03/24 08:37	1

Lab Sample ID: LCS 500-788770/2-A
Matrix: Water
Analysis Batch: 788884

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788770

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.101		mg/L		101	90 - 110

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: 500-257245-21 MS
Matrix: Water
Analysis Batch: 788884

Client Sample ID: PRC-01_20240924
Prep Type: Total/NA
Prep Batch: 788770

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.0036		0.100	0.0990		mg/L		99	90 - 110

Lab Sample ID: 500-257245-21 MSD
Matrix: Water
Analysis Batch: 788884

Client Sample ID: PRC-01_20240924
Prep Type: Total/NA
Prep Batch: 788770

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.0036		0.100	0.105		mg/L		105	90 - 110	6	20

Lab Sample ID: MB 500-789241/1-A
Matrix: Water
Analysis Batch: 789387

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 789241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00800		0.0050	0.0036	mg/L		10/06/24 11:29	10/07/24 11:23	1

Lab Sample ID: LCS 500-789241/2-A
Matrix: Water
Analysis Batch: 789387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 789241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.101		mg/L		101	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-788575/1-A
Matrix: Water
Analysis Batch: 788918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		10/01/24 15:09	10/03/24 10:53	1

Lab Sample ID: LCS 500-788575/2-A
Matrix: Water
Analysis Batch: 788918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.88		mg/L		94	90 - 110

Lab Sample ID: MB 500-788753/1-A
Matrix: Water
Analysis Batch: 788918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788753

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		10/02/24 14:54	10/03/24 11:05	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 500-788753/2-A
Matrix: Water
Analysis Batch: 788918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788753

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia			2.00	1.93		mg/L		97	90 - 110		

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 788918

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA
Prep Batch: 788753

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia	<0.10	F1	2.00	1.82		mg/L		91	90 - 110		

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 788918

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA
Prep Batch: 788753

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	<0.10	F1	2.00	1.76	F1	mg/L		88	90 - 110	3	20

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-788092/1-A
Matrix: Water
Analysis Batch: 788138

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 788092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		09/27/24 11:00	09/27/24 16:59	1

Lab Sample ID: LCS 500-788092/2-A
Matrix: Water
Analysis Batch: 788138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 788092

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phosphorus as P			1.00	0.905		mg/L		91	88 - 123		

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 788138

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA
Prep Batch: 788092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Phosphorus as P	0.027	J	1.00	0.932		mg/L		91	75 - 125		

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 788138

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA
Prep Batch: 788092

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phosphorus as P	0.027	J	1.00	0.937		mg/L		91	75 - 125	1	20

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: MB 500-789343/1-A
Matrix: Water
Analysis Batch: 789847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 789343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:21	1

Lab Sample ID: LCS 500-789343/2-A
Matrix: Water
Analysis Batch: 789847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 789343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.928		mg/L		93	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-788297/28
Matrix: Water
Analysis Batch: 788297

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			09/27/24 14:39	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			09/27/24 14:39	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			09/27/24 14:39	1

Lab Sample ID: LCS 500-788297/29
Matrix: Water
Analysis Batch: 788297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	104		mg/L		104	95 - 121

Lab Sample ID: MB 500-789442/3
Matrix: Water
Analysis Batch: 789442

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.17		5.0	3.7	mg/L			10/07/24 12:41	1
Bicarbonate Alkalinity as CaCO3	5.17		5.0	3.7	mg/L			10/07/24 12:41	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/07/24 12:41	1

Lab Sample ID: LCS 500-789442/4
Matrix: Water
Analysis Batch: 789442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	100		mg/L		100	95 - 121

Lab Sample ID: 500-257245-37 DU
Matrix: Water
Analysis Batch: 789442

Client Sample ID: MW-43_20240925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	250	B	252		mg/L		0.3	20
Bicarbonate Alkalinity as CaCO3	250	B	252		mg/L		0.3	20

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 500-257245-37 DU
Matrix: Water
Analysis Batch: 789442

Client Sample ID: MW-43_20240925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Carbonate Alkalinity as CaCO3	<3.7		<3.7		mg/L		NC	20

Method: SM 2520B - Salinity

Lab Sample ID: 500-257245-1 DU
Matrix: Water
Analysis Batch: 788296

Client Sample ID: PNC-01_20240923
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Salinity	<0.33		<0.33		psu		NC	

Lab Sample ID: 500-257245-19 DU
Matrix: Water
Analysis Batch: 788296

Client Sample ID: MLR-02_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Salinity	<0.33		<0.33		psu		NC	

Lab Sample ID: 500-257245-37 DU
Matrix: Water
Analysis Batch: 788821

Client Sample ID: MW-43_20240925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Salinity	<0.33		<0.33		psu		NC	

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-787799/1
Matrix: Water
Analysis Batch: 787799

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			09/26/24 02:54	1

Lab Sample ID: LCS 500-787799/2
Matrix: Water
Analysis Batch: 787799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	272		mg/L		109	80 - 120

Lab Sample ID: MB 500-788236/1
Matrix: Water
Analysis Batch: 788236

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			09/30/24 00:19	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 500-788236/2
Matrix: Water
Analysis Batch: 788236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			250	240		mg/L		96	80 - 120		

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 788236

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	130		250	388		mg/L		102	75 - 125		

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 788236

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	130		250	400		mg/L		107	75 - 125	3	20

Lab Sample ID: 500-257245-13 DU
Matrix: Water
Analysis Batch: 788236

Client Sample ID: SBW-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	86		90.0		mg/L		5	5

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-788113/1
Matrix: Water
Analysis Batch: 788113

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			09/27/24 13:54	1

Lab Sample ID: LCS 500-788113/2
Matrix: Water
Analysis Batch: 788113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			200	174		mg/L		87	80 - 120		

Lab Sample ID: MB 500-788332/1
Matrix: Water
Analysis Batch: 788332

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			09/30/24 11:07	1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 500-788332/2
Matrix: Water
Analysis Batch: 788332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	184		mg/L		92	80 - 120

Lab Sample ID: MB 500-788620/1
Matrix: Water
Analysis Batch: 788620

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			10/01/24 22:06	1

Lab Sample ID: LCS 500-788620/2
Matrix: Water
Analysis Batch: 788620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	181		mg/L		91	80 - 120

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 788620

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	9.4		100	110		mg/L		101	75 - 125

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 788620

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids	9.4		100	102		mg/L		93	75 - 125	8	20

Lab Sample ID: MB 500-788632/1
Matrix: Water
Analysis Batch: 788632

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			10/02/24 02:35	1

Lab Sample ID: LCS 500-788632/2
Matrix: Water
Analysis Batch: 788632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	216		mg/L		108	80 - 120

Lab Sample ID: 500-257245-37 MS
Matrix: Water
Analysis Batch: 788632

Client Sample ID: MW-43_20240925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	<1.9		100	110		mg/L		110	75 - 125

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: 500-257245-27 DU
Matrix: Water
Analysis Batch: 788632

Client Sample ID: CBR-01_20240925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	<1.9			<1.9		mg/L				NC	5

Lab Sample ID: 500-257245-35 DU
Matrix: Water
Analysis Batch: 788632

Client Sample ID: ARC-02_20240925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	3.8	J		3.60	J	mg/L				5	5

Lab Sample ID: MB 500-789017/1
Matrix: Water
Analysis Batch: 789017

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			10/03/24 22:58	1

Lab Sample ID: LCS 500-789017/2
Matrix: Water
Analysis Batch: 789017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			200	194		mg/L		97	80 - 120		

Lab Sample ID: 500-257245-29 MS
Matrix: Water
Analysis Batch: 789017

Client Sample ID: DKC-03_20240926
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids	<1.9		100	82.0		mg/L		82	75 - 125		

Lab Sample ID: 500-257245-25 DU
Matrix: Water
Analysis Batch: 789017

Client Sample ID: ARC-03_20240926
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	11			10.8		mg/L				5	5

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-787797/1
Matrix: Water
Analysis Batch: 787797

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			09/25/24 22:01	1

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: LCS 500-787797/2
Matrix: Water
Analysis Batch: 787797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.42		mg/L		94	85 - 115

Lab Sample ID: MB 500-788239/1
Matrix: Water
Analysis Batch: 788239

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			09/30/24 01:40	1

Lab Sample ID: LCS 500-788239/2
Matrix: Water
Analysis Batch: 788239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.66		mg/L		101	85 - 115

Lab Sample ID: MB 500-788435/1
Matrix: Water
Analysis Batch: 788435

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			10/01/24 00:14	1

Lab Sample ID: LCS 500-788435/2
Matrix: Water
Analysis Batch: 788435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.76	3.74		mg/L		100	85 - 115

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 788435

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.23		3.76	3.65		mg/L		97	75 - 125

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 788435

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.23		3.76	3.36		mg/L		89	75 - 125	8	20

Method: SM 5310C - TOC

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 789527

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	12		10.0	21.7		mg/L		98	75 - 125

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 789527

Client Sample ID: SBD-01_20240924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	12		10.0	21.8		mg/L		99	75 - 125	0	20

Lab Sample ID: MB 500-789903/7
Matrix: Water
Analysis Batch: 789903

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			10/08/24 18:01	1

Lab Sample ID: LCS 500-789903/8
Matrix: Water
Analysis Batch: 789903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.6		mg/L		106	86 - 116

Lab Sample ID: 500-257245-27 MS
Matrix: Water
Analysis Batch: 789903

Client Sample ID: CBR-01_20240925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	6.8		10.0	19.2		mg/L		124	75 - 125

Lab Sample ID: 500-257245-27 MSD
Matrix: Water
Analysis Batch: 789903

Client Sample ID: CBR-01_20240925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	6.8		10.0	19.2		mg/L		124	75 - 125	0	20

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-789532/31
Matrix: Water
Analysis Batch: 789532

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			10/08/24 09:08	1

Method: SM 5310C - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: LCS 500-789532/32
Matrix: Water
Analysis Batch: 789532

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Dissolved Organic Carbon			10.0	10.8		mg/L		108	86 - 116		

Lab Sample ID: 500-257245-15 MS
Matrix: Water
Analysis Batch: 789532

Client Sample ID: SBD-01_20240924
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Dissolved Organic Carbon	12		10.0	21.4		mg/L		93	75 - 125		

Lab Sample ID: 500-257245-15 MSD
Matrix: Water
Analysis Batch: 789532

Client Sample ID: SBD-01_20240924
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dissolved Organic Carbon	12		10.0	21.2		mg/L		92	75 - 125	1	20

Lab Sample ID: MB 500-790642/7
Matrix: Water
Analysis Batch: 790642

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			10/15/24 07:59	1

Lab Sample ID: LCS 500-790642/8
Matrix: Water
Analysis Batch: 790642

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Dissolved Organic Carbon			10.0	10.0		mg/L		100	86 - 116		

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-01_20240923

Lab Sample ID: 500-257245-1

Date Collected: 09/23/24 17:50

Matrix: Water

Date Received: 09/25/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2953	JS	EET SSM	10/04/24 12:34
Dissolved	Analysis	1630		1	2970	COW	EET SSM	10/04/24 21:12
Total/NA	Prep	1630			2953	JS	EET SSM	10/04/24 12:34
Total/NA	Analysis	1630		1	2970	COW	EET SSM	10/04/24 21:02
Dissolved	Analysis	1631E		10	2975	AJD	EET SSM	10/04/24 16:43
Total/NA	Analysis	1631E		1	2922	AJD	EET SSM	10/01/24 18:13
Dissolved	Prep	1638			2879	V1R	EET SSM	09/27/24 10:40
Dissolved	Analysis	1638		1	2943	V1R	EET SSM	10/02/24 22:05
Total Recoverable	Prep	1638			2879	V1R	EET SSM	09/27/24 10:40
Total Recoverable	Analysis	1638		1	2897	V1R	EET SSM	09/28/24 03:42
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:00
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789512	RN	EET CHI	10/07/24 12:37
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 20:12
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	787648	W1T	EET CHI	09/25/24 11:39
Total/NA	Analysis	300.0		1	787649	W1T	EET CHI	09/25/24 11:39
Total/NA	Prep	Distill/CN			788209	AC	EET CHI	09/29/24 08:52 - 09/29/24 09:22 [1]
Total/NA	Analysis	335.4		1	788411	AC	EET CHI	09/30/24 11:10
Total/NA	Prep	Distill/Ammonia			788575	EB	EET CHI	10/01/24 15:09 - 10/01/24 16:09 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 10:59
Total/NA	Prep	365.2/365.3/365			788092	ER	EET CHI	09/27/24 11:00 - 09/27/24 15:00 [1]
Total/NA	Analysis	365.1		1	788138	KF	EET CHI	09/27/24 17:03
Total/NA	Analysis	SM 2320B		1	788297	SO	EET CHI	09/27/24 16:57
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	787799	CLB	EET CHI	09/26/24 03:30
Total/NA	Analysis	SM 2540D		1	788332	SO	EET CHI	09/30/24 11:21 - 09/30/24 11:24 [1]
Total/NA	Analysis	SM 4500 S2 F		1	787797	CLB	EET CHI	09/25/24 22:56 - 09/25/24 23:00 [1]
Dissolved	Analysis	SM 5310C		1	789532	TR	EET CHI	10/08/24 09:08
Total/NA	Analysis	SM 5310C		1	789527	TR	EET CHI	10/07/24 15:52

Client Sample ID: PNC-01_20240923_FBLL

Lab Sample ID: 500-257245-2

Date Collected: 09/23/24 17:50

Matrix: Water

Date Received: 09/25/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 16:47

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: DUP-01-SW_20240923

Lab Sample ID: 500-257245-3

Date Collected: 09/23/24 23:59

Matrix: Water

Date Received: 09/25/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2953	JS	EET SSM	10/04/24 12:34
Dissolved	Analysis	1630		1	2970	COW	EET SSM	10/04/24 21:32
Total/NA	Prep	1630			2953	JS	EET SSM	10/04/24 12:34
Total/NA	Analysis	1630		1	2970	COW	EET SSM	10/04/24 21:22
Dissolved	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 16:55
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 16:51
Dissolved	Prep	1638			2879	V1R	EET SSM	09/27/24 10:40
Dissolved	Analysis	1638		1	2897	V1R	EET SSM	09/28/24 03:24
Total Recoverable	Prep	1638			2879	V1R	EET SSM	09/27/24 10:40
Total Recoverable	Analysis	1638		1	2897	V1R	EET SSM	09/28/24 03:46
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:02
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 20:14
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	787648	W1T	EET CHI	09/25/24 12:09
Total/NA	Analysis	300.0		1	787649	W1T	EET CHI	09/25/24 12:09
Total/NA	Prep	Distill/CN			788209	AC	EET CHI	09/29/24 08:52 - 09/29/24 09:22 [1]
Total/NA	Analysis	335.4		1	788411	AC	EET CHI	09/30/24 11:10
Total/NA	Prep	Distill/Ammonia			788575	EB	EET CHI	10/01/24 15:09 - 10/01/24 16:09 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:00
Total/NA	Prep	365.2/365.3/365			788092	ER	EET CHI	09/27/24 11:00 - 09/27/24 15:00 [1]
Total/NA	Analysis	365.1		1	788138	KF	EET CHI	09/27/24 17:04
Total/NA	Analysis	SM 2320B		1	788297	SO	EET CHI	09/27/24 17:08
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	787799	CLB	EET CHI	09/26/24 03:32
Total/NA	Analysis	SM 2540D		1	788113	SO	EET CHI	09/27/24 15:27 - 09/27/24 15:33 [1]
Total/NA	Analysis	SM 4500 S2 F		1	787797	CLB	EET CHI	09/25/24 23:00 - 09/25/24 23:04 [1]
Dissolved	Analysis	SM 5310C		1	789532	TR	EET CHI	10/08/24 09:08
Total/NA	Analysis	SM 5310C		1	789527	TR	EET CHI	10/07/24 17:16

Client Sample ID: DUP-01-SW_20240923_FBLL

Lab Sample ID: 500-257245-4

Date Collected: 09/23/24 23:59

Matrix: Water

Date Received: 09/25/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 16:59

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PRC-02_20240923

Lab Sample ID: 500-257245-5

Date Collected: 09/23/24 13:55

Matrix: Water

Date Received: 09/25/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2895	AJD	EET SSM	09/30/24 12:00
Dissolved	Analysis	1630		1	2935	COW	EET SSM	10/01/24 17:37
Total/NA	Prep	1630			2953	JS	EET SSM	10/04/24 12:34
Total/NA	Analysis	1630		1	2970	COW	EET SSM	10/04/24 21:43
Dissolved	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 17:07
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 17:03
Dissolved	Prep	1638			2879	V1R	EET SSM	09/27/24 10:40
Dissolved	Analysis	1638		1	2897	V1R	EET SSM	09/28/24 03:28
Total Recoverable	Prep	1638			2879	V1R	EET SSM	09/27/24 10:40
Total Recoverable	Analysis	1638		1	2897	V1R	EET SSM	09/28/24 03:49
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:04
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 20:16
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	787648	W1T	EET CHI	09/25/24 11:09
Total/NA	Analysis	300.0		1	787649	W1T	EET CHI	09/25/24 11:09
Total/NA	Analysis	300.0		10	788852	W1T	EET CHI	10/03/24 17:20
Total/NA	Prep	Distill/CN			788209	AC	EET CHI	09/29/24 08:52 - 09/29/24 09:22 [1]
Total/NA	Analysis	335.4		1	788411	AC	EET CHI	09/30/24 11:13
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:06
Total/NA	Prep	365.2/365.3/365			788092	ER	EET CHI	09/27/24 11:00 - 09/27/24 15:00 [1]
Total/NA	Analysis	365.1		1	788138	KF	EET CHI	09/27/24 17:04
Total/NA	Analysis	SM 2320B		1	788297	SO	EET CHI	09/27/24 17:17
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	787799	CLB	EET CHI	09/26/24 03:35
Total/NA	Analysis	SM 2540D		1	788332	SO	EET CHI	09/30/24 11:24 - 09/30/24 11:27 [1]
Total/NA	Analysis	SM 4500 S2 F		1	787797	CLB	EET CHI	09/25/24 23:04 - 09/25/24 23:08 [1]
Dissolved	Analysis	SM 5310C		1	789532	TR	EET CHI	10/08/24 09:08
Total/NA	Analysis	SM 5310C		1	789527	TR	EET CHI	10/07/24 17:44

Client Sample ID: PRC-02_20240923_FBLL

Lab Sample ID: 500-257245-6

Date Collected: 09/23/24 13:55

Matrix: Water

Date Received: 09/25/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 17:20

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MLR-03_20240923

Lab Sample ID: 500-257245-7

Date Collected: 09/23/24 12:50

Matrix: Water

Date Received: 09/25/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2895	AJD	EET SSM	09/30/24 12:00
Dissolved	Analysis	1630		1	2935	COW	EET SSM	10/01/24 17:57
Total/NA	Prep	1630			2895	AJD	EET SSM	09/30/24 12:00
Total/NA	Analysis	1630		1	2935	COW	EET SSM	10/01/24 17:47
Dissolved	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 17:28
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 17:24
Dissolved	Prep	1638			2879	V1R	EET SSM	09/27/24 10:40
Dissolved	Analysis	1638		1	2897	V1R	EET SSM	09/28/24 03:31
Total Recoverable	Prep	1638			2879	V1R	EET SSM	09/27/24 10:40
Total Recoverable	Analysis	1638		1	2897	V1R	EET SSM	09/28/24 03:53
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:06
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 20:19
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	787648	W1T	EET CHI	09/25/24 10:53
Total/NA	Analysis	300.0		1	787649	W1T	EET CHI	09/25/24 10:53
Total/NA	Prep	Distill/CN			788209	AC	EET CHI	09/29/24 08:52 - 09/29/24 09:22 [1]
Total/NA	Analysis	335.4		1	788411	AC	EET CHI	09/30/24 11:13
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:07
Total/NA	Prep	365.2/365.3/365			788092	ER	EET CHI	09/27/24 11:00 - 09/27/24 15:00 [1]
Total/NA	Analysis	365.1		1	788138	KF	EET CHI	09/27/24 17:05
Total/NA	Analysis	SM 2320B		1	788297	SO	EET CHI	09/27/24 17:26
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	787799	CLB	EET CHI	09/26/24 03:37
Total/NA	Analysis	SM 2540D		1	788332	SO	EET CHI	09/30/24 11:27 - 09/30/24 11:30 [1]
Total/NA	Analysis	SM 4500 S2 F		1	787797	CLB	EET CHI	09/25/24 23:08 - 09/25/24 23:12 [1]
Dissolved	Analysis	SM 5310C		1	789532	TR	EET CHI	10/08/24 09:08
Total/NA	Analysis	SM 5310C		1	789527	TR	EET CHI	10/07/24 18:12

Client Sample ID: MLR-03_20240923_FBLL

Lab Sample ID: 500-257245-8

Date Collected: 09/23/24 12:50

Matrix: Water

Date Received: 09/25/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 17:32

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: NTC-01_20240923

Lab Sample ID: 500-257245-9

Date Collected: 09/23/24 15:10

Matrix: Water

Date Received: 09/25/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2895	AJD	EET SSM	09/30/24 12:00
Dissolved	Analysis	1630		1	2935	COW	EET SSM	10/01/24 18:17
Total/NA	Prep	1630			2895	AJD	EET SSM	09/30/24 12:00
Total/NA	Analysis	1630		1	2935	COW	EET SSM	10/01/24 18:07
Dissolved	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 17:41
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 17:36
Dissolved	Prep	1638			2879	V1R	EET SSM	09/27/24 10:40
Dissolved	Analysis	1638		1	2897	V1R	EET SSM	09/28/24 03:35
Total Recoverable	Prep	1638			2879	V1R	EET SSM	09/27/24 10:40
Total Recoverable	Analysis	1638		1	2897	V1R	EET SSM	09/28/24 04:04
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:13
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 20:21
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	787648	W1T	EET CHI	09/25/24 11:24
Total/NA	Analysis	300.0		1	787649	W1T	EET CHI	09/25/24 11:24
Total/NA	Prep	Distill/CN			788209	AC	EET CHI	09/29/24 08:52 - 09/29/24 09:22 [1]
Total/NA	Analysis	335.4		1	788411	AC	EET CHI	09/30/24 11:13
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:07
Total/NA	Prep	365.2/365.3/365			788092	ER	EET CHI	09/27/24 11:00 - 09/27/24 15:00 [1]
Total/NA	Analysis	365.1		1	788138	KF	EET CHI	09/27/24 17:05
Total/NA	Analysis	SM 2320B		1	788297	SO	EET CHI	09/27/24 17:34
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	787799	CLB	EET CHI	09/26/24 03:40
Total/NA	Analysis	SM 2540D		1	788332	SO	EET CHI	09/30/24 11:30 - 09/30/24 11:33 [1]
Total/NA	Analysis	SM 4500 S2 F		1	787797	CLB	EET CHI	09/25/24 23:12 - 09/25/24 23:16 [1]
Dissolved	Analysis	SM 5310C		1	789532	TR	EET CHI	10/08/24 09:08
Total/NA	Analysis	SM 5310C		1	789527	TR	EET CHI	10/07/24 18:41

Client Sample ID: NTC-01_20240923_FBLL

Lab Sample ID: 500-257245-10

Date Collected: 09/23/24 15:10

Matrix: Water

Date Received: 09/25/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 17:45

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MLR-01_20240923

Lab Sample ID: 500-257245-11

Date Collected: 09/23/24 17:00

Matrix: Water

Date Received: 09/25/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2895	AJD	EET SSM	09/30/24 12:00
Dissolved	Analysis	1630		1	2935	COW	EET SSM	10/01/24 18:58
Total/NA	Prep	1630			2895	AJD	EET SSM	09/30/24 12:00
Total/NA	Analysis	1630		1	2935	COW	EET SSM	10/01/24 18:28
Dissolved	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 17:53
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 17:49
Dissolved	Prep	1638			2879	V1R	EET SSM	09/27/24 10:40
Dissolved	Analysis	1638		1	2897	V1R	EET SSM	09/28/24 03:39
Total Recoverable	Prep	1638			2879	V1R	EET SSM	09/27/24 10:40
Total Recoverable	Analysis	1638		1	2897	V1R	EET SSM	09/28/24 04:08
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:15
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 20:23
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	787648	W1T	EET CHI	09/25/24 11:54
Total/NA	Analysis	300.0		1	787649	W1T	EET CHI	09/25/24 11:54
Total/NA	Prep	Distill/CN			788209	AC	EET CHI	09/29/24 08:52 - 09/29/24 09:22 [1]
Total/NA	Analysis	335.4		1	788411	AC	EET CHI	09/30/24 11:14
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:08
Total/NA	Prep	365.2/365.3/365			788092	ER	EET CHI	09/27/24 11:00 - 09/27/24 15:00 [1]
Total/NA	Analysis	365.1		1	788138	KF	EET CHI	09/27/24 17:05
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 12:54
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	787799	CLB	EET CHI	09/26/24 03:43
Total/NA	Analysis	SM 2540D		1	788332	SO	EET CHI	09/30/24 11:33 - 09/30/24 11:36 [1]
Total/NA	Analysis	SM 4500 S2 F		1	787797	CLB	EET CHI	09/25/24 23:16 - 09/25/24 23:20 [1]
Dissolved	Analysis	SM 5310C		1	789532	TR	EET CHI	10/08/24 09:08
Total/NA	Analysis	SM 5310C		1	789527	TR	EET CHI	10/07/24 19:09

Client Sample ID: MLR-01_20240923_FBLL

Lab Sample ID: 500-257245-12

Date Collected: 09/23/24 17:00

Matrix: Water

Date Received: 09/25/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 17:57

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: SBW-01_20240924

Lab Sample ID: 500-257245-13

Date Collected: 09/24/24 09:30

Matrix: Water

Date Received: 09/26/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2953	JS	EET SSM	10/04/24 12:34
Dissolved	Analysis	1630		1	2970	COW	EET SSM	10/04/24 22:03
Total/NA	Prep	1630			2953	JS	EET SSM	10/04/24 12:34
Total/NA	Analysis	1630		1	2970	COW	EET SSM	10/04/24 21:53
Dissolved	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 18:14
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 18:10
Dissolved	Prep	1638			2915	V1R	EET SSM	10/02/24 10:55
Dissolved	Analysis	1638		1	2943	V1R	EET SSM	10/02/24 20:41
Total Recoverable	Prep	1638			2915	V1R	EET SSM	10/02/24 10:55
Total Recoverable	Analysis	1638		1	2943	V1R	EET SSM	10/02/24 21:07
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:18
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 20:25
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	787874	MM	EET CHI	09/26/24 12:07
Total/NA	Analysis	300.0		1	787875	W1T	EET CHI	09/26/24 12:07
Total/NA	Prep	Distill/CN			788209	AC	EET CHI	09/29/24 08:52 - 09/29/24 09:22 [1]
Total/NA	Analysis	335.4		1	788411	AC	EET CHI	09/30/24 11:17
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:08
Total/NA	Prep	365.2/365.3/365			788092	ER	EET CHI	09/27/24 11:00 - 09/27/24 15:00 [1]
Total/NA	Analysis	365.1		1	788138	KF	EET CHI	09/27/24 17:06
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 13:03
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	788236	CLB	EET CHI	09/30/24 00:24
Total/NA	Analysis	SM 2540D		1	788620	CLB	EET CHI	10/01/24 22:44 - 10/01/24 22:46 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788239	CLB	EET CHI	09/30/24 02:07 - 09/30/24 02:12 [1]
Dissolved	Analysis	SM 5310C		1	789532	TR	EET CHI	10/08/24 09:08
Total/NA	Analysis	SM 5310C		1	789527	TR	EET CHI	10/07/24 19:37

Client Sample ID: SBW-01_20240924_FBLL

Lab Sample ID: 500-257245-14

Date Collected: 09/24/24 09:30

Matrix: Water

Date Received: 09/26/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 18:18

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: SBD-01_20240924

Lab Sample ID: 500-257245-15

Date Collected: 09/24/24 11:00

Matrix: Water

Date Received: 09/26/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Dissolved	Analysis	1630		1	2937	COW	EET SSM	10/02/24 18:59
Total/NA	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Total/NA	Analysis	1630		1	2937	COW	EET SSM	10/02/24 18:28
Dissolved	Analysis	1631E		1	2922	AJD	EET SSM	10/01/24 13:31
Total/NA	Analysis	1631E		1	2922	AJD	EET SSM	10/01/24 13:27
Dissolved	Prep	1638			2915	V1R	EET SSM	10/02/24 10:55
Dissolved	Analysis	1638		1	2943	V1R	EET SSM	10/02/24 19:00
Total Recoverable	Prep	1638			2915	V1R	EET SSM	10/02/24 10:55
Total Recoverable	Analysis	1638		1	2943	V1R	EET SSM	10/02/24 19:10
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:20
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 20:32
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	787874	MM	EET CHI	09/26/24 12:23
Total/NA	Analysis	300.0		1	787875	W1T	EET CHI	09/26/24 12:23
Total/NA	Prep	Distill/CN			788209	AC	EET CHI	09/29/24 08:52 - 09/29/24 09:22 [1]
Total/NA	Analysis	335.4		1	788411	AC	EET CHI	09/30/24 11:17
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:08
Total/NA	Prep	365.2/365.3/365			788092	ER	EET CHI	09/27/24 11:00 - 09/27/24 15:00 [1]
Total/NA	Analysis	365.1		1	788138	KF	EET CHI	09/27/24 17:06
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 13:12
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	788236	CLB	EET CHI	09/30/24 00:29
Total/NA	Analysis	SM 2540D		1	788620	CLB	EET CHI	10/01/24 22:46 - 10/01/24 22:48 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788435	CLB	EET CHI	10/01/24 00:22 - 10/01/24 00:26 [1]
Dissolved	Analysis	SM 5310C		1	789532	TR	EET CHI	10/08/24 09:08
Total/NA	Analysis	SM 5310C		1	789527	TR	EET CHI	10/07/24 20:05

Client Sample ID: SBD-01_20240924-FBLL

Lab Sample ID: 500-257245-16

Date Collected: 09/24/24 11:00

Matrix: Water

Date Received: 09/26/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2922	AJD	EET SSM	10/01/24 13:35

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-02_20240924

Lab Sample ID: 500-257245-17

Date Collected: 09/24/24 12:50

Matrix: Water

Date Received: 09/26/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2895	AJD	EET SSM	09/30/24 12:00
Dissolved	Analysis	1630		1	2935	COW	EET SSM	10/01/24 19:19
Total/NA	Prep	1630			2895	AJD	EET SSM	09/30/24 12:00
Total/NA	Analysis	1630		1	2935	COW	EET SSM	10/01/24 19:08
Dissolved	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 18:26
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 18:22
Dissolved	Prep	1638			2915	V1R	EET SSM	10/02/24 10:55
Dissolved	Analysis	1638		1	2943	V1R	EET SSM	10/02/24 20:45
Total Recoverable	Prep	1638			2915	V1R	EET SSM	10/02/24 10:55
Total Recoverable	Analysis	1638		1	2943	V1R	EET SSM	10/02/24 21:10
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:31
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 20:44
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	787874	MM	EET CHI	09/26/24 11:07
Total/NA	Analysis	300.0		1	787875	W1T	EET CHI	09/26/24 11:07
Total/NA	Prep	Distill/CN			788770	AC	EET CHI	10/02/24 14:08 - 10/02/24 14:38 [1]
Total/NA	Analysis	335.4		1	788884	AC	EET CHI	10/03/24 08:38
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:10
Total/NA	Prep	365.2/365.3/365			788092	ER	EET CHI	09/27/24 11:00 - 09/27/24 15:00 [1]
Total/NA	Analysis	365.1		1	788138	KF	EET CHI	09/27/24 17:08
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 13:20
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	788236	CLB	EET CHI	09/30/24 00:37
Total/NA	Analysis	SM 2540D		1	788620	CLB	EET CHI	10/01/24 22:53 - 10/01/24 22:55 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788239	CLB	EET CHI	09/30/24 02:12 - 09/30/24 02:16 [1]
Dissolved	Analysis	SM 5310C		1	789532	TR	EET CHI	10/08/24 09:08
Total/NA	Analysis	SM 5310C		1	789527	TR	EET CHI	10/07/24 21:29

Client Sample ID: PNC-02_20240924-FBLL

Lab Sample ID: 500-257245-18

Date Collected: 09/24/24 12:50

Matrix: Water

Date Received: 09/26/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 18:30

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MLR-02_20240924

Lab Sample ID: 500-257245-19

Date Collected: 09/24/24 14:50

Matrix: Water

Date Received: 09/26/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2895	AJD	EET SSM	09/30/24 12:00
Dissolved	Analysis	1630		1	2935	COW	EET SSM	10/01/24 19:39
Total/NA	Prep	1630			2895	AJD	EET SSM	09/30/24 12:00
Total/NA	Analysis	1630		1	2935	COW	EET SSM	10/01/24 19:29
Dissolved	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 18:39
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 18:35
Dissolved	Prep	1638			2915	V1R	EET SSM	10/02/24 10:55
Dissolved	Analysis	1638		1	2943	V1R	EET SSM	10/02/24 20:56
Total Recoverable	Prep	1638			2915	V1R	EET SSM	10/02/24 10:55
Total Recoverable	Analysis	1638		1	2943	V1R	EET SSM	10/02/24 21:14
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:34
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 20:46
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	787874	MM	EET CHI	09/26/24 11:22
Total/NA	Analysis	300.0		1	787875	W1T	EET CHI	09/26/24 11:22
Total/NA	Prep	Distill/CN			788770	AC	EET CHI	10/02/24 14:08 - 10/02/24 14:38 [1]
Total/NA	Analysis	335.4		1	788884	AC	EET CHI	10/03/24 08:40
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:10
Total/NA	Prep	365.2/365.3/365			788092	ER	EET CHI	09/27/24 11:00 - 09/27/24 15:00 [1]
Total/NA	Analysis	365.1		1	788138	KF	EET CHI	09/27/24 17:09
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 13:29
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	788236	CLB	EET CHI	09/30/24 00:39
Total/NA	Analysis	SM 2540D		1	788620	CLB	EET CHI	10/01/24 22:55 - 10/01/24 22:57 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788239	CLB	EET CHI	09/30/24 02:16 - 09/30/24 02:21 [1]
Dissolved	Analysis	SM 5310C		1	789532	TR	EET CHI	10/08/24 09:08
Total/NA	Analysis	SM 5310C		1	789903	TR	EET CHI	10/08/24 18:57

Client Sample ID: MLR-02_20240924-FBLL

Lab Sample ID: 500-257245-20

Date Collected: 09/24/24 14:50

Matrix: Water

Date Received: 09/26/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 18:43

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PRC-01_20240924

Lab Sample ID: 500-257245-21

Date Collected: 09/24/24 15:40

Matrix: Water

Date Received: 09/26/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2895	AJD	EET SSM	09/30/24 12:00
Dissolved	Analysis	1630		1	2935	COW	EET SSM	10/01/24 19:59
Total/NA	Prep	1630			2895	AJD	EET SSM	09/30/24 12:00
Total/NA	Analysis	1630		1	2935	COW	EET SSM	10/01/24 19:49
Dissolved	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 18:59
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 18:47
Dissolved	Prep	1638			2915	V1R	EET SSM	10/02/24 10:55
Dissolved	Analysis	1638		1	2943	V1R	EET SSM	10/02/24 21:00
Total Recoverable	Prep	1638			2915	V1R	EET SSM	10/02/24 10:55
Total Recoverable	Analysis	1638		1	2943	V1R	EET SSM	10/02/24 21:18
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:40
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 20:48
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	787874	MM	EET CHI	09/26/24 11:37
Total/NA	Analysis	300.0		1	787875	W1T	EET CHI	09/26/24 11:37
Total/NA	Analysis	300.0		10	788852	W1T	EET CHI	10/03/24 17:36
Total/NA	Prep	Distill/CN			788770	AC	EET CHI	10/02/24 14:08 - 10/02/24 14:38 [1]
Total/NA	Analysis	335.4		1	788884	AC	EET CHI	10/03/24 08:41
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:11
Total/NA	Prep	365.2/365.3/365			788092	ER	EET CHI	09/27/24 11:00 - 09/27/24 15:00 [1]
Total/NA	Analysis	365.1		1	788138	KF	EET CHI	09/27/24 17:09
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 13:38
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	788236	CLB	EET CHI	09/30/24 00:42
Total/NA	Analysis	SM 2540D		1	788620	CLB	EET CHI	10/01/24 22:57 - 10/01/24 22:59 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788239	CLB	EET CHI	09/30/24 02:21 - 09/30/24 02:25 [1]
Dissolved	Analysis	SM 5310C		1	789532	TR	EET CHI	10/08/24 09:08
Total/NA	Analysis	SM 5310C		1	789903	TR	EET CHI	10/08/24 19:25

Client Sample ID: PRC-01_20240924-FBLL

Lab Sample ID: 500-257245-22

Date Collected: 09/24/24 15:40

Matrix: Water

Date Received: 09/26/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 19:04

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-03_20240924

Lab Sample ID: 500-257245-23

Date Collected: 09/24/24 16:30

Matrix: Water

Date Received: 09/26/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2895	AJD	EET SSM	09/30/24 12:00
Dissolved	Analysis	1630		1	2935	COW	EET SSM	10/01/24 20:20
Total/NA	Prep	1630			2895	AJD	EET SSM	09/30/24 12:00
Total/NA	Analysis	1630		1	2935	COW	EET SSM	10/01/24 20:10
Dissolved	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 19:12
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 19:08
Dissolved	Prep	1638			2915	V1R	EET SSM	10/02/24 10:55
Dissolved	Analysis	1638		1	2943	V1R	EET SSM	10/02/24 21:03
Total Recoverable	Prep	1638			2915	V1R	EET SSM	10/02/24 10:55
Total Recoverable	Analysis	1638		1	2943	V1R	EET SSM	10/02/24 21:21
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:43
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 20:50
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	787874	MM	EET CHI	09/26/24 11:52
Total/NA	Analysis	300.0		1	787875	W1T	EET CHI	09/26/24 11:52
Total/NA	Prep	Distill/CN			788770	AC	EET CHI	10/02/24 14:08 - 10/02/24 14:38 [1]
Total/NA	Analysis	335.4		1	788884	AC	EET CHI	10/03/24 08:42
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:12
Total/NA	Prep	365.2/365.3/365			788092	ER	EET CHI	09/27/24 11:00 - 09/27/24 15:00 [1]
Total/NA	Analysis	365.1		1	788138	KF	EET CHI	09/27/24 17:10
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 13:47
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	788236	CLB	EET CHI	09/30/24 00:44
Total/NA	Analysis	SM 2540D		1	788620	CLB	EET CHI	10/01/24 22:59 - 10/01/24 23:02 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788239	CLB	EET CHI	09/30/24 02:25 - 09/30/24 02:30 [1]
Dissolved	Analysis	SM 5310C		1	789532	TR	EET CHI	10/08/24 09:08
Total/NA	Analysis	SM 5310C		1	789903	TR	EET CHI	10/08/24 19:53

Client Sample ID: PNC-03_20240924-FBLL

Lab Sample ID: 500-257245-24

Date Collected: 09/24/24 16:30

Matrix: Water

Date Received: 09/26/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2975	AJD	EET SSM	10/04/24 19:16

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: ARC-03_20240926

Lab Sample ID: 500-257245-25

Date Collected: 09/26/24 08:15

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Dissolved	Analysis	1630		1	2937	COW	EET SSM	10/02/24 21:22
Total/NA	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Total/NA	Analysis	1630		1	2937	COW	EET SSM	10/02/24 19:30
Dissolved	Analysis	1631E		1	2978	AJD	EET SSM	10/07/24 15:54
Total/NA	Analysis	1631E		1	2978	AJD	EET SSM	10/07/24 15:49
Dissolved	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Dissolved	Analysis	1638		1	3003	V1R	EET SSM	10/09/24 12:15
Total Recoverable	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Total Recoverable	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 21:13
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:45
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 20:53
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	788071	MB	EET CHI	09/27/24 14:07
Total/NA	Analysis	300.0		1	788072	MB	EET CHI	09/27/24 14:07
Total/NA	Prep	Distill/CN			788770	AC	EET CHI	10/02/24 14:08 - 10/02/24 14:38 [1]
Total/NA	Analysis	335.4		1	788884	AC	EET CHI	10/03/24 08:44
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:12
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:22
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 13:56
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	788236	CLB	EET CHI	09/30/24 00:47
Total/NA	Analysis	SM 2540D		1	789017	CLB	EET CHI	10/03/24 23:02 - 10/03/24 23:04 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788239	CLB	EET CHI	09/30/24 02:30 - 09/30/24 02:35 [1]
Dissolved	Analysis	SM 5310C		1	789532	TR	EET CHI	10/08/24 09:08
Total/NA	Analysis	SM 5310C		1	789903	TR	EET CHI	10/09/24 00:34

Client Sample ID: ARC-03_20240926-FBLL

Lab Sample ID: 500-257245-26

Date Collected: 09/26/24 08:15

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	2978	AJD	EET SSM	10/07/24 15:58

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: CBR-01_20240925

Lab Sample ID: 500-257245-27

Date Collected: 09/25/24 09:00
Matrix: Water
Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Dissolved	Analysis	1630		1	2937	COW	EET SSM	10/02/24 21:32
Total/NA	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Total/NA	Analysis	1630		1	2937	COW	EET SSM	10/02/24 19:40
Dissolved	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 18:06
Total/NA	Analysis	1631E		1	2978	AJD	EET SSM	10/07/24 16:10
Dissolved	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Dissolved	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 20:44
Total Recoverable	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Total Recoverable	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 21:16
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:47
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 20:59
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	788071	MB	EET CHI	09/27/24 15:23
Total/NA	Analysis	300.0		1	788072	MB	EET CHI	09/27/24 15:23
Total/NA	Prep	Distill/CN			788770	AC	EET CHI	10/02/24 14:08 - 10/02/24 14:38 [1]
Total/NA	Analysis	335.4		1	788884	AC	EET CHI	10/03/24 08:45
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:13
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:22
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 14:07
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	788236	CLB	EET CHI	09/30/24 00:50
Total/NA	Analysis	SM 2540D		1	788632	CLB	EET CHI	10/02/24 02:39 - 10/02/24 02:41 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788239	CLB	EET CHI	09/30/24 02:35 - 09/30/24 02:39 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	789903	TR	EET CHI	10/08/24 20:21

Client Sample ID: CBR-01_20240925-FBLL

Lab Sample ID: 500-257245-28

Date Collected: 09/25/24 09:00
Matrix: Water
Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 18:10

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: DKC-03_20240926

Lab Sample ID: 500-257245-29

Date Collected: 09/26/24 09:45

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Dissolved	Analysis	1630		1	2937	COW	EET SSM	10/02/24 21:42
Total/NA	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Total/NA	Analysis	1630		1	2937	COW	EET SSM	10/02/24 20:11
Dissolved	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 18:18
Total/NA	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 18:14
Dissolved	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Dissolved	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 20:47
Total Recoverable	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Total Recoverable	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 21:27
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:49
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 21:02
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	788071	MB	EET CHI	09/27/24 14:23
Total/NA	Analysis	300.0		1	788072	MB	EET CHI	09/27/24 14:23
Total/NA	Prep	Distill/CN			788770	AC	EET CHI	10/02/24 14:08 - 10/02/24 14:38 [1]
Total/NA	Analysis	335.4		1	788884	AC	EET CHI	10/03/24 08:46
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:13
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:22
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 14:16
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	788236	CLB	EET CHI	09/30/24 00:52
Total/NA	Analysis	SM 2540D		1	789017	CLB	EET CHI	10/03/24 23:07 - 10/03/24 23:09 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788239	CLB	EET CHI	09/30/24 02:39 - 09/30/24 02:44 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	789903	TR	EET CHI	10/08/24 21:46

Client Sample ID: DKC-03_20240926-FBLL

Lab Sample ID: 500-257245-30

Date Collected: 09/26/24 09:45

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 18:22

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: ARC-01_20240925

Lab Sample ID: 500-257245-31

Date Collected: 09/25/24 10:00

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Dissolved	Analysis	1630		1	2937	COW	EET SSM	10/02/24 22:13
Total/NA	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Total/NA	Analysis	1630		1	2937	COW	EET SSM	10/02/24 20:21
Dissolved	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 18:31
Total/NA	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 18:27
Dissolved	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Dissolved	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 20:51
Total Recoverable	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Total Recoverable	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 21:31
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:52
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 21:04
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	788071	MB	EET CHI	09/27/24 15:39
Total/NA	Analysis	300.0		1	788072	MB	EET CHI	09/27/24 15:39
Total/NA	Prep	Distill/CN			788770	AC	EET CHI	10/02/24 14:08 - 10/02/24 14:38 [1]
Total/NA	Analysis	335.4		1	788884	AC	EET CHI	10/03/24 08:48
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:13
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:23
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 14:24
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	788236	CLB	EET CHI	09/30/24 00:55
Total/NA	Analysis	SM 2540D		1	788632	CLB	EET CHI	10/02/24 02:43 - 10/02/24 02:46 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788239	CLB	EET CHI	09/30/24 02:44 - 09/30/24 02:48 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	789903	TR	EET CHI	10/08/24 22:14

Client Sample ID: ARC-01_20240925-FBLL

Lab Sample ID: 500-257245-32

Date Collected: 09/25/24 10:00

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 18:35

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: PNC-04_20240926

Lab Sample ID: 500-257245-33

Date Collected: 09/26/24 10:45

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Dissolved	Analysis	1630		1	2937	COW	EET SSM	10/02/24 22:23
Total/NA	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Total/NA	Analysis	1630		1	2937	COW	EET SSM	10/02/24 20:31
Dissolved	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 18:51
Total/NA	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 18:47
Dissolved	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Dissolved	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 20:55
Total Recoverable	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Total Recoverable	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 21:34
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:54
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 21:06
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	788071	MB	EET CHI	09/27/24 14:38
Total/NA	Analysis	300.0		1	788072	MB	EET CHI	09/27/24 14:38
Total/NA	Analysis	300.0		5	788852	W1T	EET CHI	10/03/24 17:51
Total/NA	Prep	Distill/CN			789241	AC	EET CHI	10/06/24 11:29 - 10/06/24 11:59 [1]
Total/NA	Analysis	335.4		1	789387	AC	EET CHI	10/07/24 11:27
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:14
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:23
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 14:32
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	788236	CLB	EET CHI	09/30/24 00:57
Total/NA	Analysis	SM 2540D		1	789017	CLB	EET CHI	10/03/24 23:11 - 10/03/24 23:13 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788239	CLB	EET CHI	09/30/24 02:48 - 09/30/24 02:53 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	789903	TR	EET CHI	10/08/24 23:38

Client Sample ID: PNC-04_20240926-FBLL

Lab Sample ID: 500-257245-34

Date Collected: 09/26/24 10:45

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 18:56

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: ARC-02_20240925

Lab Sample ID: 500-257245-35

Date Collected: 09/25/24 11:30

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Dissolved	Analysis	1630		1	2937	COW	EET SSM	10/02/24 22:33
Total/NA	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Total/NA	Analysis	1630		1	2937	COW	EET SSM	10/02/24 20:41
Dissolved	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 19:04
Total/NA	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 19:00
Dissolved	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Dissolved	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 20:58
Total Recoverable	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Total Recoverable	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 21:38
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:56
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 21:08
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	788071	MB	EET CHI	09/27/24 15:54
Total/NA	Analysis	300.0		1	788072	MB	EET CHI	09/27/24 15:54
Total/NA	Prep	Distill/CN			788770	AC	EET CHI	10/02/24 14:08 - 10/02/24 14:38 [1]
Total/NA	Analysis	335.4		1	788884	AC	EET CHI	10/03/24 08:49
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:14
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:24
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 14:41
Total/NA	Analysis	SM 2520B		1	788296	TR	EET CHI	09/30/24 08:42
Total/NA	Analysis	SM 2540C		1	788236	CLB	EET CHI	09/30/24 01:00
Total/NA	Analysis	SM 2540D		1	788632	CLB	EET CHI	10/02/24 02:46 - 10/02/24 02:48 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788239	CLB	EET CHI	09/30/24 02:53 - 09/30/24 02:58 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	789903	TR	EET CHI	10/09/24 00:06

Client Sample ID: ARC-02_20240925-FBLL

Lab Sample ID: 500-257245-36

Date Collected: 09/25/24 11:30

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 19:08

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MW-43_20240925

Lab Sample ID: 500-257245-37

Date Collected: 09/25/24 14:00

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Dissolved	Analysis	1630		1	2937	COW	EET SSM	10/02/24 22:44
Total/NA	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Total/NA	Analysis	1630		1	2937	COW	EET SSM	10/02/24 20:51
Dissolved	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 19:16
Total/NA	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 19:12
Dissolved	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Dissolved	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 21:02
Total Recoverable	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Total Recoverable	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 21:42
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 19:58
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 21:11
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	788071	MB	EET CHI	09/27/24 12:36
Total/NA	Analysis	300.0		1	788072	MB	EET CHI	09/27/24 12:36
Total/NA	Prep	Distill/CN			788770	AC	EET CHI	10/02/24 14:08 - 10/02/24 14:38 [1]
Total/NA	Analysis	335.4		1	788884	AC	EET CHI	10/03/24 08:49
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:15
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:25
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 14:49
Total/NA	Analysis	SM 2520B		1	788821	TR	EET CHI	10/03/24 07:24
Total/NA	Analysis	SM 2540C		1	788236	CLB	EET CHI	09/30/24 01:02
Total/NA	Analysis	SM 2540D		1	788632	CLB	EET CHI	10/02/24 02:50 - 10/02/24 02:52 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788435	CLB	EET CHI	10/01/24 00:34 - 10/01/24 00:39 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	789903	TR	EET CHI	10/09/24 01:03

Client Sample ID: MW-43_20240925-FBLL

Lab Sample ID: 500-257245-38

Date Collected: 09/25/24 14:00

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 19:20

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: MW-44_20240925

Lab Sample ID: 500-257245-39

Date Collected: 09/25/24 15:20

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Dissolved	Analysis	1630		1	2937	COW	EET SSM	10/02/24 22:54
Total/NA	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Total/NA	Analysis	1630		1	2937	COW	EET SSM	10/02/24 21:02
Dissolved	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 19:37
Total/NA	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 19:25
Dissolved	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Dissolved	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 21:05
Total Recoverable	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Total Recoverable	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 21:45
Dissolved	Prep	3005A			788879	BDE	EET CHI	10/03/24 08:59 - 10/03/24 14:59 [1]
Dissolved	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 20:01
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789324	RN	EET CHI	10/04/24 21:13
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	6020B		1	789615	RN	EET CHI	10/08/24 12:58
Total Recoverable	Prep	3005A			788713	BDE	EET CHI	10/02/24 09:17 - 10/02/24 15:17 [1]
Total Recoverable	Analysis	SM 2340B		1	789379	DAJ	EET CHI	10/07/24 11:49
Total/NA	Analysis	300.0		1	788071	MB	EET CHI	09/27/24 13:37
Total/NA	Analysis	300.0		1	788072	MB	EET CHI	09/27/24 13:37
Total/NA	Analysis	300.0		5	788852	W1T	EET CHI	10/03/24 18:07
Total/NA	Prep	Distill/CN			788770	AC	EET CHI	10/02/24 14:08 - 10/02/24 14:38 [1]
Total/NA	Analysis	335.4		1	788884	AC	EET CHI	10/03/24 08:50
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:15
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:25
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 15:07
Total/NA	Analysis	SM 2520B		1	788821	TR	EET CHI	10/03/24 07:24
Total/NA	Analysis	SM 2540C		1	788236	CLB	EET CHI	09/30/24 01:05
Total/NA	Analysis	SM 2540D		1	788632	CLB	EET CHI	10/02/24 02:54 - 10/02/24 02:57 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788435	CLB	EET CHI	10/01/24 00:39 - 10/01/24 00:43 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	789903	TR	EET CHI	10/09/24 01:31

Client Sample ID: MW-44_20240925-FBLL

Lab Sample ID: 500-257245-40

Date Collected: 09/25/24 15:20

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 19:41

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Client Sample ID: DKC-02_20240925

Lab Sample ID: 500-257245-41

Date Collected: 09/25/24 17:45

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Dissolved	Analysis	1630		1	2937	COW	EET SSM	10/02/24 23:04
Total/NA	Prep	1630			2913	CL	EET SSM	10/02/24 10:24
Total/NA	Analysis	1630		1	2937	COW	EET SSM	10/02/24 21:12
Dissolved	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 19:50
Total/NA	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 19:45
Dissolved	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Dissolved	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 21:09
Total Recoverable	Prep	1638			2981	V1R	EET SSM	10/08/24 12:42
Total Recoverable	Analysis	1638		1	2993	V1R	EET SSM	10/08/24 20:04
Dissolved	Prep	3005A			788880	BDE	EET CHI	10/03/24 09:00 - 10/03/24 15:00 [1]
Dissolved	Analysis	6020B		1	789512	RN	EET CHI	10/07/24 13:06
Total Recoverable	Prep	3005A			788880	BDE	EET CHI	10/03/24 09:00 - 10/03/24 15:00 [1]
Total Recoverable	Analysis	6020B		1	789512	RN	EET CHI	10/07/24 13:04
Total Recoverable	Prep	3005A			788880	BDE	EET CHI	10/03/24 09:00 - 10/03/24 15:00 [1]
Total Recoverable	Analysis	SM 2340B		1	789555	TJW	EET CHI	10/08/24 11:29
Total/NA	Analysis	300.0		1	788071	MB	EET CHI	09/27/24 13:52
Total/NA	Analysis	300.0		1	788072	MB	EET CHI	09/27/24 13:52
Total/NA	Prep	Distill/CN			788770	AC	EET CHI	10/02/24 14:08 - 10/02/24 14:38 [1]
Total/NA	Analysis	335.4		1	788884	AC	EET CHI	10/03/24 08:50
Total/NA	Prep	Distill/Ammonia			788753	EB	EET CHI	10/02/24 14:54 - 10/02/24 15:54 [1]
Total/NA	Analysis	350.1		1	788918	KF	EET CHI	10/03/24 11:16
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:26
Total/NA	Analysis	SM 2320B		1	789442	ER	EET CHI	10/07/24 15:16
Total/NA	Analysis	SM 2520B		1	788821	TR	EET CHI	10/03/24 07:24
Total/NA	Analysis	SM 2540C		1	788236	CLB	EET CHI	09/30/24 01:08
Total/NA	Analysis	SM 2540D		1	788632	CLB	EET CHI	10/02/24 02:57 - 10/02/24 02:59 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788435	CLB	EET CHI	10/01/24 00:43 - 10/01/24 00:47 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	789903	TR	EET CHI	10/09/24 01:59

Client Sample ID: DKC-02_20240925-FBLL

Lab Sample ID: 500-257245-42

Date Collected: 09/25/24 17:45

Matrix: Water

Date Received: 09/27/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3001	CL	EET SSM	10/08/24 19:54

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257245-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24 *
South Carolina	State	77001003	05-31-25
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-25
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-25
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2673	COC No: 500-127995-50241.14
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257245

Address: 35503 Mall Circle Drive	Due Date Requested:	
City: White Pine	TAT Requested (days): 10 days	
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No	
Phone: 906-204-6500	PO #: Purchase Order not required	
Email: AZeidler@whitepinecu.com	WO #:	
Project Name: White Pine, MI	Project #: 50023455	
Site:	SSOW#:	

500-257245 COC

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
1 PNC-01_20240923	09-23-24	1750	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22	
2 PNC-01_20240923_FBLL	09-23-24	1760	G	Water										✓						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Preservation Codes:
S - H2SO4
N - None
CB - ZnAcetate/NaOH
B - NaOH
D - HNO3
A - HCL

Other:

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment: Fedex Priority overnight	
Relinquished by: Ellen	Date/Time: 09/23/24 - 1750	Company: MSG	Received by:	Date/Time: 9-23-24 1750	Company: MSG
Relinquished by:	Date/Time: 9-24-24 1200	Company: MSG	Received by: 4145 7025 2673	Date/Time: 9-24-24 1200	Company: Fedex
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/25/24 0945	Company: EEN

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.5-7.4, 2.0.9-2.0.8, 2.3-2.2, 4.5-7.4, 4.2, 6.7, 2.5, 2.1-2.0

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2684	COC No: 500-127995-50241.48
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu.com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
S - H2SO4
N - None
CB - ZnAcetate/NaOH
B - NaOH
D - HNO3
A - HCL
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
DUP-01-SW-20240923	9-23-24	~	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
DUP-01-SW-20240923_FBLL	9-23-24	—	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex Priority overnight

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Elliott	9-23-24 1600	MSG	[illegible]	9-23-24 1600	MSG
[illegible]	9-24-24 1200	MSG	4145 7025 2684	9-24-24 1200	Fedex
			[illegible]	9/25/24 0945	EBTT

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2695	COC No: 500-127995-50241.5
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu.com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
S - H2SO4
N - None
CB - ZnAcetate/NaOH
B - NaOH
D - HNO3
A - HCL

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
PRC-02_20240923	09-23-24	1355	G	Water			V	V	V	V	V	V	V	V	V	V	V	V	V	19	
PRC-02_20240923_FBLL	09-23-24	1355	G	Water										V						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex Priority overnight

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	09-23-24 1355	MSG	[signature]	9-23-24 1355	MSG
2	[signature]	9-24-24 1200	MSG	4145 7025 2695	9-24-24 1200	Fedex
3				[signature]	9/25/24 0945	EBTH

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Copperno11	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 8710	COC No: 500-127995-50241.2
Client Contact: Amanda Zeidler	Phone: 517-613-2249	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257285
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu.com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
S - H2SO4
N - None
CB - ZnAcetate/NaOH
B - NaOH
D - HNO3
A - HCL

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
7 MLR-03_20240923	09-23-24	1250	G	Water			V	V	V	V	V	V	V	V	V	V	V	V	V	22	
8 MLR-03_20240923_FBLL	09-23-24	1250	G	Water										V						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex Priority Overnight

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Ellen	09-23-24 / 1250	MSG		9-23-24 1250	MSG
2		9-24-24 1200	MSG	4145 7025 8710	9-24-24 1200	Fedex
3					9/25/24 0945	EET

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2700	COC No: 500-127995-50241.37
Client Contact: Amanda Zeidler	Phone: 517-613-2249	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu.com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
S - H2SO4
N - None
CB - ZnAcetate/NaOH
B - NaOH
D - HNO3
A - HCL

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
9 NTC-01_20240923	09-23-24	1510	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22	
10 NTC-01_20240923_FBLL	09-23-24	1510	G	Water										✓						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fedex Priority overnight

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ellen Coppernoll	09-23-24 / 1510	MSG	Mn Bay	9-23-24 1510	MSG
Mn Bay	9-24-24 1200	MSG	4145 7025 2700	9-24-24 1200	Fedex
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			Ellen Coppernoll	9/25/24 0945	EET

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2721	COC No: 500-127995-50241.3
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257265
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu.com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
S - H2SO4
N - None
CB - ZnAcetate/NaOH
B - NaOH
D - HNO3
A - HCL

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of Containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
MLR-01_20240923	09-23-24	1700	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22	
MLR-01_20240923_FBLL	09-23-24	1700	G	Water										✓						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex Priority overnight

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Elliott	09-23-24/1700	MSG	[signature]	9-23-24 1700	MSG
2	[signature]	9-24-24 1200	MSG	4145 7025 2721	9-24-24 1200	Fedex
3				[signature]	9/25/24 0945	ERT

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Copperndl	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2802	COC No: 500-127995-50241 11
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			Other:

500-257245 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
13 SBW-01-20240924	09-24-24	0930	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
14 SBW-01-20240924-FBLL	09-24-24	0930	G	Water										✓						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	09-24-24 / 0930	MSG		9-25-24 0500	MSG
2		9-25-24 1400	MSG	4145 7025 2802	9-25-24 1400	Fedex
3					9/26/24 1030	BETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 4.1→4.0, 2.8→2.7, 4.1→4.0, 2.9→2.8, 3.3→3.2, 1.4→1.3, 2.5→2.4

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2743	COC No: 500-127995-50241 28
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
15/16 SBD-01_20240924	09-24-24	1100	G	Water		X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	63	MS/MSD collected
SBD-01_20240924_FBLL	09-24-24	1100	G	Water		X								✓						6	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	09-24-24 / 1100	MSG		9-24-24 1100	MSG
2		9-25-24 1400	MSG	4145 7025 2743	9-25-24 1400	Fedex
3					9/26/24 1030	EBH

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2765	COC No: 500-127995-50241 6
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL; Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
17 PNC-02_20240924	09-24-24	12:50	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22	
18 PNC-02_20240924_FBLL	09-24-24	12:50	G	Water										✓						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	09-24-24 / 12:50	MSG	[signature]	9-24-24 1250	MSG
2	[signature]	9-25-24 1400	MSG	4145 7025 2765	9-25-24 1400	Fedex
3				[signature]	9/26/24 1030	BBTA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2787	COC No.: 500-127995-50241 45
Client Contact.: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 570-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project. Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N - None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
19 MLR-02-20240924	09-24-24	14:50	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22	
20 MLR-02-20240924_FBLL	09-24-24	14:50	G	Water										✓						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	09-24-24 / 14:60	MSG		9-25-24 0500	MSG
2		9-25-24 1400	MSG	4145 7025 2787	9-25-24 1400	MSG Fedex
3		Date/Time	Company	Received by	Date/Time: 9/26/24 1030	Company

Custody Seals Intact Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Loppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2798	COC No: 500-127995-50241 10
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
21	PRC-01_20240924	09-24-24	15:40	G	Water			V	V	V	V	V	V	V	V	V	V	V	V	V	22	
22	PRC-01_20240924_FBLL	09-24-24	15:40	G	Water										V						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen Loppernoll	09-24-24 / 15:40	MSG		9-25-24 0500	MSG
2		9-25-24 1400	MSG	4145 7025 2798	9-25-24 1400	Fedex
3		Date/Time	Company	Received by	9/26/24 1030	ETTP

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2776	COC No: 500-127995-50241 8
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
23 PNC-03_20240924	09-24-24	1630	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22	
24 PNC-03_20240924_FBLL	09-24-24	1630	G	Water										✓						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	09-24-24 / 1630	MSG	[signature]	9-25-24 0500	MSG
2	[signature]	9-25-24 1400	MSG	4145 7025 2776	9-25-24 1400	Fedex
3				[signature]	9/26/24 1030	EET

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Copperwoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 7629	COC No: 500-127995-50241 29
Client Contact: Amanda Zeidler	Phone: 517-513-7249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

500-257245 COC

Analysis Requested

Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL; Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
ARC-03_20240926	09-26-24	0815	G	Water			V	V	V	V	V	V	V	V	V	V	V	V	V	22	
ARC-03_20240926_FBLL	09-26-24	0815	G	Water										V						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	09-26-24 / 1200	MSG	[signature]	9-26-24 1200	MSG
2	[signature]	9-26-24 1600	MSG	4145 7025 7629	9-26-24 1600	Fedex
3				[signature]	9/27/24 0900	EBDL

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 1.7→1.6, 1.8→1.3, 1.7→1.6, 1.8→1.7, 1.7→1.6, 0.9→0.8, 1.0→0.9, 0.8→0.7, 1.4→1.3

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2640	COC No: 500-127995-50241 47
Client Contact: Amanda Zeidler	Phone: 517-613-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
27 CBR-01_20240925	09-25-24	0900	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22	
28 CBR-01_20240925_FBLL	09-25-24	0900	G	Water										✓						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Elliot	09-25-24 / 0900	MSG		9-26-24 1000	MSG
2		9-26-24 1600	MSG	4145 7025 2640	9-26-24 1600	Fedex
3		Date/Time	Company	Received by	Date/Time: 9/27/24 0900	Company EPA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2581	COC No: 500-127995-50241 40
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
29	DKC-03_20240926	09-26-24	0945	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22	
30	DKC-03_20240926_FBLL	09-26-24	0945	G	Water										✓						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		09-26-24/1200	MSG		9-26-24 1200	MSG
2		9-26-24 1400	MSG	414570252581	9-26-24 1600	Fedex
3		Date/Time	Company		9/27/24 0900	EPA

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

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Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2630	COC No: 500-127995-50241 36
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
31 ARC-01_20240925	09-25-24	1000	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22	
32 ARC-01_20240925_FBLL	09-25-24	1000	G	Water										✓						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	09-25-24 1000	MSG	[signature]	9-26-24 1000	MSG
2	[signature]	9-26-24 1600	MSG	4145 7025 2630	9-26-24 1600	Fedex
3				[signature]	9/27/24 0900	EAT

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2592	COC No: 500-127995-50241 38
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu.com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
33 34 PNC-04_20240926	09-26-24	1045	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22	
PNC-04_20240926_FBLL	09-26-24	1045	G	Water										✓						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	09-26-24 / 1200	MSG		9-26-24 1200	MSG
2		9-26-24 1400	MSG	4145 7025 2592	9-26-24 1600	Fedex
3		Date/Time	Company	Received by:	9/27/24 0900	EAA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll 517-513-2749	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-127995-50241 32
Client Contact: Amanda Zeidler	Phone:	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other:
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
35 ARC-02-20240925	09-25-24	1130	G	Water			V	V	V	V	V	V	V	V	V	V	V	V	V	12	
36 ARC-02-20240925-FBLL	09-25-24	1130	G	Water										V						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	09-25-24 / 1130	MSG	[signature]	9-26-24 1000	MSG
2	[signature]	9-26-24 1600	MSG	414570229 2607	9-26-24 1600	Fedex
3	Relinquished by	Date/Time	Company	Received by [signature]	9/27/24 0900	EBTA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2662	COC No: 500-127995-50241 9
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
37 MW-43_20240925	09-25-24	14:00	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
38 MW-43_20240925_FBLL	09-25-24	14:00	G	Water										✓						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	09/25/24/17:00	MSG		9-26-24 1600	MSG
2		9-26-24 1600	MSG	4145 7025 2662	9-26-24 1600	Fedex
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
					9/27/24 0900	EBTA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2651	COC No: 500-127995-50241 24
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
39 MW-44_20240925	09-25-24	1520	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
40 MW-44_20240925_FBLL	09-25-24	1520	G	Water										✓						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Elliott	09/25/24 - 1700	MSG	[illegible]	9-26-24 1000	MSG
2	[illegible]	9-26-24 1600	MSG	4145 7025 2651	9-26-24 1600	MSG
3				[illegible]	9/27/24 0900	DETA

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Loppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2618	COC No: 500-127995-50241 35
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257245
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
1 DKC-02_20240925	09-25-24	1745	G	Water			V	V	V	V	V	V	V	V	V	V	V	V	V	22	
~~DKC-02~~ EC			G	Water																	
2 DKC-02_20240925-FBLL	09-25-24	1745	G	Water										J						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Feder Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	09/25/24 18:30	MSG	Mr Fredrick	9-26-24 0900	MSG
2	Mr Fredrick	9-26-24 1600	MSG	4145 7025 2618	9-26-24 1600	Feder
3	Relinquished by	Date/Time	Company	Received by: Shri Koots	9/27/24 0900	BETA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks


J CHRESTENSEN
HE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
REF:
DEPT:
500-257245 Waybi
RMA.
FedEx Express
THU - 26 SEP AA
PRIORITY OVERNIGHT
TRK# 0221 4145 7025 2765
XP JOTA
48QT
60484
IL-US
ORD


JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808
SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
534-5200
REF:
DEPT
FedEx Express
THU - 26 SEP AA
PRIORITY OVERNIGHT
TRK# 0221 4145 7025 2743
XP JOTA
48QT
60484
IL-US
ORD

JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-6200 REF:
INV:
PO: DEPT

RMA

FedEx Express

FedEx
TRK# 0221 4145 7025 2754

THU - 26 SEP AA
PRIORITY OVERNIGHT

XP JOTA 48QT

60484
IL-US
ORD

JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-6200 REF:
INV:
PO: DEPT

RMA

FedEx Express

TRK# 0221 4145 7025 2802

RETURNS MON-SAT
PRIORITY OVERNIGHT

60484

FedEx
TRK# 0221 4145 7025 2802

THU - 26 SEP A
PRIORITY OVERNIGH

XP JOTA 48QT

JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

ACTWGT: 25.0 LB MAN
CAD: 0780307/CAFE3808

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:

RMA.

FedEx Express

J241023112201uv

TRK# 0221 4145 7025 2798

THU - 26 SEP AA
PRIORITY OVERNIGHT

XP JOTA 48QT

60484
IL-US
ORD

5025547 25Sep2024

JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:

RMA

FedEx Express

J241023112201uv

FedEx
TRK# 0221 4145 7025 2776

THU - 26 SEP AA
PRIORITY OVERNIGHT

XP JOTA 48QT

60484
IL-US
ORD

JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200 REF
INV:
PO: DEPT:

RMA

FedEx Express

FedEx
TRK# 0221 4145 7025 2787

THU - 26 SEP AA
PRIORITY OVERNIGHT

XP JOTA 48QT

60484
IL-US
ORD

5025547 25Sep2024 CMXA 581G2/4EF9/C0B8

JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200 REF
INV:
PO: DEPT:

RMA

FedEx Express

FedEx
TRK# 0221 4145 7025 2732

RETURNS MON-SAT
THU - 26 SEP AA
PRIORITY OVERNIGHT

XP JOTA 48QT

60484
IL-US
ORD


THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
CAD: 0780307/CAFE3808
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
REF:
INV:
PO:
DEPT:
500-257245 Waybi
RMA:
FedEx Express
J24102311220 1uv
TRK# 0221 4145 7025 2581
RETURNS MON-SAT
PRIORITY OVERNIGHT
FRI - 27 SEP AA
PRIORITY OVERNIGHT
FedEx
TRK# 0221 4145 7025 2581
XP JOTA
60484
IL-US
ORD
5878720 26Sep2024 CMXA 581G2/4EF9/C0B8


THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
CAD: 0780307/CAFE3808
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
REF:
INV:
PO:
DEPT:
RMA:
FedEx Express
J24102311220 1uv
FRI - 27 SEP AA
PRIORITY OVERNIGHT
FedEx
TRK# 0221 4145 7025 2592
XP JOTA
60484
IL-US
ORD
5878720 26Sep2024 CMXA 581G2/4EF9/C0B8

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/15/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193070.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257245-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/8/2024	Analysis Requested		Preservation Codes:
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Therm. ID: SC02 Cust. Seal: Y / N
Uncorr./Corr. Temp: 0.1 / 0.1 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: L Packing: B

Therm. ID: SC04 Cust. Seal: Y / N
Uncorr./Corr. Temp: 0.5 / 0.6 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: VL Packing: B

4g Blue
4g Green

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered							
Preservation Code:																			
PNC-01_20240923 (500-257245-1)	9/23/24	17:50 Eastern	G	Water			X	X	X	X	X	X							7
PNC-01_20240923_FBLL (500-257245-2)	9/23/24	17:50 Eastern	G	Water				X											2
DUP-01-SW_20240923 (500-257245-3)	9/23/24	Eastern	G	Water			X	X	X	X	X	X							8
DUP-01-SW_20240923_FBLL (500-257245-4)	9/23/24	Eastern	G	Water				X											2
PRC-02_20240923 (500-257245-5)	9/23/24	13:55 Eastern	G	Water			X	X	X	X	X	X							8
PRC-02_20240923_FBLL (500-257245-6)	9/23/24	13:55 Eastern	G	Water				X											2
MLR-03_20240923 (500-257245-7)	9/23/24	12:50 Eastern	G	Water			X	X	X	X	X	X							8
MLR-03_20240923_FBLL (500-257245-8)	9/23/24	12:50 Eastern	G	Water				X											2
NTC-01_20240923 (500-257245-9)	9/23/24	15:10 Eastern	G	Water			X	X	X	X	X	X							8

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification Unconfirmed 7051 7620 9583	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 9/25/24 1545	Company	Received by:	Date/Time: 9/26/24 9:45	Company ET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/15/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193070.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257245-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/8/2024	Analysis Requested		Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
NTC-01_20240923_FBLL (500-257245-10)	9/23/24	15:10 Eastern	G	Water				X					2	
MLR-01_20240923 (500-257245-11)	9/23/24	17:00 Eastern	G	Water			X	X	X	X	X	X	8	
MLR-01_20240923_FBLL (500-257245-12)	9/23/24	17:00 Eastern	G	Water				X					2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/25/24 1545		[signature]	9/26/24 9:45	ETN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/15/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193128.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257245-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/8/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
SBW-01_20240924 (500-257245-13)	9/24/24	09:30 Eastern	G	Water			X	X	X	X	X	X	8	
SBW-01_20240924_FBLL (500-257245-14)	9/24/24	09:30 Eastern	G	Water				X					2	
SBD-01_20240924 (500-257245-15)	9/24/24	11:00 Eastern	G	Water			X	X	X	X	X	X	8	
SBD-01_20240924 (500-257245-15MS)	9/24/24	11:00 Eastern	G	Water			X	X	X	X	X	X	8	
SBD-01_20240924 (500-257245-15MSD)	9/24/24	11:00 Eastern	G	Water			X	X	X	X	X	X	8	
SBD-01_20240924-FBLL (500-257245-16)	9/24/24	11:00 Eastern	G	Water				X					2	
SBD-01_20240924-FBLL (500-257245-16MS)	9/24/24	11:00 Eastern	G	Water				X					2	
SBD-01_20240924-FBLL (500-257245-16MSD)	9/24/24	11:00 Eastern	G	Water				X					2	
PNC-02_20240924 (500-257245-17)	9/24/24	12:50 Eastern	G	Water			X	X	X	X	X	X	8	Ly Ble

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded u accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accredi immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 1.1 /1.3 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: 1 Packing: B

Possible Hazard Identification Unconfirmed 7051 7621 0141	*Sample Disposal (A fee may be assessed if sampl* ☐ *Return To Client* ☐ *Disposal By Lab*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 9/26/24 1545	Company	Received by:	Date/Time: 9/27/24 10:10	Company EEN
Relinquished by:	Date/Time:	Company		Date/Time:	Company
Relinquished by:	Date/Time:	Company		Date/Time:	Company

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 1.3 /1.5 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: 1 Packing: B

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: Ly Ble

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/15/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193128.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257245-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/8/2024			Preservation Codes:
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			Other:
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
PNC-02_20240924-FBLL (500-257245-18)	9/24/24	12:50 Eastern	G	Water				X					2	
MLR-02_20240924 (500-257245-19)	9/24/24	14:50 Eastern	G	Water			X	X	X	X	X	X	8	
MLR-02_20240924-FBLL (500-257245-20)	9/24/24	14:50 Eastern	G	Water				X					2	
PRC-01_20240924 (500-257245-21)	9/24/24	15:40 Eastern	G	Water			X	X	X	X	X	X	8	
PRC-01_20240924-FBLL (500-257245-22)	9/24/24	15:40 Eastern	G	Water				X					2	
PNC-03_20240924 (500-257245-23)	9/24/24	16:30 Eastern	G	Water			X	X	X	X	X	X	8	
PNC-03_20240924-FBLL (500-257245-24)	9/24/24	16:30 Eastern	G	Water				X					2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed* 7051 7621 0141	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 9/26/24 1545	Company	Received by:	Date/Time: 9/27/24 1010	Company	EET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/15/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193182.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257245-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/8/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			Other:
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
Preservation Code:														
ARC-03_20240926 (500-257245-25)	9/26/24	08:15 Eastern	G	Water			X	X	X	X	X	X	8	
ARC-03_20240926-FBLL (500-257245-26)	9/26/24	08:15 Eastern	G	Water				X					2	
CBR-01_20240925 (500-257245-27)	9/25/24	09:00 Eastern	G	Water			X	X	X	X	X	X	8	
CBR-01_20240925-FBLL (500-257245-28)	9/25/24	09:00 Eastern	G	Water				X					2	
DKC-03_20240926 (500-257245-29)	9/26/24	09:45 Eastern	G	Water			X	X	X	X	X	X	8	
DKC-03_20240926-FBLL (500-257245-30)	9/26/24	09:45 Eastern	G	Water				X					2	
ARC-01_20240925 (500-257245-31)	9/25/24	10:00 Eastern	G	Water			X	X	X	X	X	X	8	
ARC-01_20240925-FBLL (500-257245-32)	9/25/24	10:00 Eastern	G	Water				X					2	
PNC-04_20240926 (500-257245-33)	9/26/24	10:45 Eastern	G	Water			X	X	X	X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9/27/24 1530			9/28/24 0920	EETN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.3/3.9, 1.4/2.4, 2.0/2.6 IR11 +1.2 w/ice

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193182.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257245-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/8/2024	Analysis Requested		Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
PNC-04_20240926-FBLL (500-257245-34)	9/26/24	10:45 Eastern	G	Water				X					2	
ARC-02_20240925 (500-257245-35)	9/25/24	11:30 Eastern	G	Water			X	X	X	X	X	X	8	
ARC-02_20240925-FBLL (500-257245-36)	9/25/24	11:30 Eastern	G	Water				X					2	
MW-43_20240925 (500-257245-37)	9/25/24	14:00 Eastern	G	Water			X	X	X	X	X	X	7	
MW-43_20240925-FBLL (500-257245-38)	9/25/24	14:00 Eastern	G	Water				X					2	
MW-44_20240925 (500-257245-39)	9/25/24	15:20 Eastern	G	Water			X	X	X	X	X	X	8	
MW-44_20240925-FBLL (500-257245-40)	9/25/24	15:20 Eastern	G	Water				X					2	
DKC-02_20240925 (500-257245-41)	9/25/24	17:45 Eastern	G	Water			X	X	X	X	X	X	8	
DKC-02_20240925-FBLL (500-257245-42)	9/25/24	17:45 Eastern	G	Water				X					2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/27/24 1530		[signature]	9/28/24 0920	EETN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-257245-1

Login Number: 257245
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2,0.8,2.2,4.4,2.5,2.0,4.0,2.7,1.0,4.0,2.8,3.2,1.3, 2.41.6,1.3,1.6,1.7,1.6,0.8,0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Received 1 diss LL Hg vial broken
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-257245-1

Login Number: 257245
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 09/26/24 01:31 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-257245-1

Login Number: 257245
List Number: 3
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 09/27/24 02:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-257245-1

Login Number: 257245
List Number: 4
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 09/30/24 06:38 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-257245-1

Login Number: 257245
List Number: 5
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 10/01/24 12:09 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-257245-1

Login Number: 257245
List Number: 6
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 10/07/24 08:08 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-257245-1

Login Number: 257245
List Number: 7
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 10/08/24 07:13 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-257245 Field Sheet

Date:	9/26/2024
End Time:	15:30
KI Paper Lot:	na
Analyst:	QL

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	26401
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
500-257245-A-1	A	Y	.8 2	
500-257245-B-1	A	Y	.8 2	
500-257245-C-1	A	Y	.8 2	
500-257245-A-2	A	Y	.8 2	
500-257245-B-2	A	Y	.8 2	
500-257245-A-3	A	Y	.8 2	
500-257245-B-3	A	Y	.8 2	
500-257245-C-3	A	Y	.8 2	
500-257245-D-3	A	Y	.8 2	
500-257245-A-4	A	Y	.8 2	
500-257245-B-4	A	Y	.8 2	
500-257245-A-5	A	Y	.8 2	
500-257245-B-5	A	Y	.8 2	
500-257245-C-5	A	Y	.8 2	
500-257245-D-5	A	Y	.8 2	
500-257245-A-6	A	Y	.8 2	
500-257245-B-6	A	Y	.8 2	
500-257245-A-7	A	Y	.8 2	
500-257245-B-7	A	Y	.8 2	
500-257245-C-7	A	Y	.8 2	
500-257245-D-7	A	Y	.8 2	
500-257245-A-8	A	Y	.8 2	
500-257245-B-8	A	Y	.8 2	
500-257245-A-9	A	Y	.8 2	
500-257245-B-9	A	Y	.8 2	
500-257245-C-9	A	Y	.8 2	
500-257245-D-9	A	Y	.8 2	
500-257245-A-10	A	Y	.8 2	
500-257245-B-10	A	Y	.8 2	
500-257245-A-11	A	Y	.8 2	
500-257245-B-11	A	Y	.8 2	
500-257245-C-11	A	Y	.8 2	
500-257245-D-11	A	Y	.8 2	
500-257245-A-12	A	Y	.8 2	
500-257245-B-12	A	Y	.8 2	

QL 9/26/24

Total Mercury Preservation Log NBK-SM-012 Login Number: 500-257245

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Date:	9/26/2024
End Time:	15:30
KI Paper Lot:	na
Analyst:	VR

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	26401
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
500-257245-A-12	A	Y	.5 2	NO
500-257245-B-12	A	Y	.5 2	

Total Mercury Preservation Log NBK-SM-012 Login Number: 500-257245

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500-257245 Field Sheet

Date:	9/26/2024
End Time:	1411:23
pH Paper Lot:	hc324723
Analyst:	VP

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
A	Bromine Monochloride (0.2N)	na
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-257245-F-3	<2				
500-257245-F-5	<2				
500-257245-E-7	<2				
500-257245-E-5	<2				
500-257245-E-3	<2				
500-257245-E-9	<2				
500-257245-F-1	<2				
500-257245-F-7	<2				
500-257245-E-1	<2				
500-257245-F-11	<2				
500-257245-F-9	<2				
500-257245-E-11	<2				
500-257245-N-11	<2				
500-257245-K-5	<2				
500-257245-N-3	<2				
500-257245-J-5	<2				
500-257245-M-11	<2				
500-257245-N-11	<2				
500-257245-M-7	<2				
500-257245-N-9	<2				
500-257245-M-11	<2				
500-257245-M-3	<2				
500-257245-M-9	<2				
500-257245-N-7	<2				

12
9/26/24

pH Verification Log NBK-SM-012 Login Number: 500-257245

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500-257245 Field Sheet

Date:	9/27/2024
End Time:	1415
pH Paper Lot:	hc324723
Analyst:	VL

Preservative ID	Preservative Type	Container ID
A	Nitric Acid	na
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-257245-N-19	<2				
500-257245-M-15 MS	<2				
500-257245-M-23	<2				
500-257245-M-15 MSD	<2				
500-257245-N-13	<2				
500-257245-M-19	<2				
500-257245-N-21	<2				
500-257245-M-13	<2			VL	
500-257245-M-15	<2			9/27/24	
500-257245-N-15	<2				
500-257245-N-23	<2				
500-257245-N-15 MSD	<2				
500-257245-N-15 MSD	<2				
500-257245-M-21	<2				
500-257245-M-17	<2				
500-257245-N-17	VL				

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500-257245 Field Sheet

Date:	9/27/2024
End Time:	1430
pH Paper Lot:	hc324723
Analyst:	VL

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-257245-E-15	<2				
500-257245-E-15 MSD	<2				
500-257245-E-21	<2				
500-257245-F-15 MSD	<2				
500-257245-F-17	<2				
500-257245-E-23	<2				
500-257245-F-21	<2				
500-257245-E-19	<2				
500-257245-F-15 MSD	<2				
500-257245-E-13	<2				
500-257245-E-17	<2				
500-257245-E-15 MSD	<2				
500-257245-F-13	<2				
500-257245-F-23	<2				
500-257245-F-15 MSD	<2				
500-257245-F-19	<2				

VL 9/27/24

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500-257245 Field Sheet

Date:	9/27/2024
End Time:	1637
KI Paper Lot:	14-860
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	25045
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
500-257245-A-13	A	Y	.5 2	
500-257245-B-13	A	Y	.5 2	
500-257245-C-13	A	Y	.5 2	
500-257245-D-13	A	Y	.5 2	
500-257245-A-14	A	Y	.5 2	
500-257245-B-14	A	Y	.5 2	
500-257245-A-15	A	Y	.5 2	
500-257245-B-15	A	Y	.5 2	
500-257245-C-15	A	Y	.5 2	
500-257245-D-15	A	Y	.5 2	
500-257245-A-16	A	Y	.5 2	
500-257245-B-16	A	Y	.5 2	
500-257245-A-17	A	Y	.5 2	
500-257245-B-17	A	Y	.5 2	
500-257245-C-17	A	Y	.5 2	
500-257245-D-17	A	Y	.5 2	
500-257245-A-18	A	Y	.5 2	
500-257245-B-18	A	Y	.5 2	
500-257245-A-19	A	Y	.5 2	
500-257245-B-19	A	Y	.5 2	
500-257245-C-19	A	Y	.5 2	
500-257245-D-19	A	Y	.5 2	
500-257245-A-16 MSD	A	Y	.5 2	
500-257245-B-16 MSD	A	Y	.5 2	
500-257245-A-20	A	Y	.5 2	
500-257245-B-20	A	Y	.5 2	
500-257245-A-21	A	Y	.5 2	
500-257245-B-21	A	Y	.5 2	
500-257245-C-21	A	Y	.5 2	
500-257245-D-21	A	Y	.5 2	
500-257245-A-22	A	Y	.5 2	
500-257245-B-22	A	Y	.5 2	
500-257245-A-23	A	Y	.5 2	
500-257245-B-23	A	Y	.5 2	
500-257245-C-23	A	Y	.5 2	

9/27/24

eurofins | Environment Testing

Date:	9/27/2024
End Time:	16:30
KI Paper Lot:	14-860
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	25045
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
500-257245-B-23	A	Y	.8 2	
500-257245-C-23	A	Y	.8 2	
500-257245-D-23	A	Y	.8 2	
500-257245-A-24	A	Y	.8 2	
500-257245-B-24	A	Y	.8 2	
500-257245-A-15 MS	A	Y	.8 2	
500-257245-B-15 MS	A	Y	.8 2	
500-257245-C-15 MS	A	Y	.8 2	
500-257245-D-15 MS	A	Y	.8 2	
500-257245-A-15 MSD	A	Y	.8 2	
500-257245-B-15 MSD	A	Y	.8 2	
500-257245-C-15 MSD	A	Y	.8 2	
500-257245-D-15 MSD	A	Y	.8 2	
500-257245-A-16 MSD	A	Y	.8 2	
500-257245-B-16 MSD	A	Y	.8 2	

9/27/24

eurofins | Environment Testing

500-257245 Field Sheet

Date:	10/1/2024
End Time:	13:40
pH Paper Lot:	hc324723
Analyst:	JR

Preservative ID	Preservative Type	Container ID
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-257245-M-25	<2				
500-257245-N-25	<2				
500-257245-M-27	<2				
500-257245-N-27	<2				
500-257245-M-29	<2				
500-257245-N-29	<2				
500-257245-N-31	<2				
500-257245-M-31	<2				
500-257245-M-33	<2				
500-257245-N-33	<2				
500-257245-M-35	<2				
500-257245-N-35	<2				
500-257245-M-37	<2				
500-257245-N-37	<2				
500-257245-N-39	<2				
500-257245-M-39	<2				
500-257245-N-41	<2				
500-257245-M-41	<2				

JR 10/1/24

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500-257245 Field Sheet

Date:	10/1/2024
End Time:	1330
pH Paper Lot:	hc324723
Analyst:	VL

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-257245-E-37	<2				
500-257245-F-33	<2				
500-257245-E-31	<2				
500-257245-E-35	<2				
500-257245-F-35	<2				
500-257245-E-33	<2				
500-257245-F-31	<2				
500-257245-F-25	<2				
500-257245-E-27	<2			VL 10/1/24	
500-257245-F-27	<2				
500-257245-F-37	<2				
500-257245-E-25	<2				
500-257245-F-29	<2				
500-257245-F-41	<2				
500-257245-E-41	<2				
500-257245-E-29	<2				
500-257245-F-39	<2				
500-257245-E-39	<2				

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500-257245 Field Sheet

10/15/2024

Date:	10/1/2024
End Time:	١٣:١٥
KI Paper Lot:	na
Analyst:	RZ

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	25045
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-257245-A-25	A	Y	.٤	٢	
500-257245-B-25	A	Y	.٨	٢	
500-257245-C-25	A	Y	١٨	٢	
500-257245-D-25	A	Y	١٨	٢	
500-257245-A-26	A	Y	.٨	٢	
500-257245-B-26	A	Y	.٨	٢	
500-257245-A-27	A	Y	.٨	٢	
500-257245-B-27	A	Y	.٨	٢	
500-257245-C-27	A	Y	.٨	٢	
500-257245-D-27	A	Y	.٨	٢	
500-257245-A-28	A	Y	.٨	٢	
500-257245-B-28	A	Y	.٨	٢	
500-257245-A-29	A	Y	.٨	٢	
500-257245-B-29	A	Y	.٨	٢	
500-257245-C-29	A	Y	.٨	٢	
500-257245-D-29	A	Y	.٨	٢	
500-257245-A-30	A	Y	.٨	٢	
500-257245-B-30	A	Y	.٨	٢	
500-257245-A-31	A	Y	.٨	٢	
500-257245-B-31	A	Y	.٨	٢	
500-257245-C-31	A	Y	.٨	٢	
500-257245-D-31	A	Y	.٨	٢	
500-257245-A-32	A	Y	.٨	٢	
500-257245-B-32	A	Y	.٨	٢	
500-257245-A-33	A	Y	.٨	٢	
500-257245-B-33	A	Y	.٨	٢	
500-257245-C-33	A	Y	.٨	٢	
500-257245-D-33	A	Y	.٨	٢	
500-257245-A-34	A	Y	.٨	٢	
500-257245-B-34	A	Y	.٨	٢	
500-257245-A-35	A	Y	.٨	٢	
500-257245-B-35	A	Y	.٨	٢	
500-257245-C-35	A	Y	.٨	٢	
500-257245-D-35	A	Y	.٨	٢	
500-257245-A-36	A	Y	.٨	٢	

RZ 10/1/24

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10/15/2024

Date:	10/1/2024
End Time:	1415
KI Paper Lot:	na
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	25045
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-257245-D-35	A	Y	.8	2	
500-257245-A-36	A	Y	.8	2	
500-257245-B-36	A	Y	.8	2	
500-257245-A-37	A	Y	.8	2	
500-257245-A-39	A	Y	.8	2	
500-257245-B-38	A	Y	.8	2	
500-257245-A-38	A	Y	.8	2	
500-257245-D-39	A	Y	.8	2	
500-257245-C-39	A	Y	.8	2	
500-257245-B-39	A	Y	.8	2	
500-257245-A-41	A	Y	.8	2	
500-257245-B-40	A	Y	.8	2	
500-257245-A-40	A	Y	.8	2	
500-257245-D-41	A	Y	.8	2	
500-257245-C-41	A	Y	.8	2	
500-257245-B-42	A	Y	.8	2	
500-257245-B-41	A	Y	.8	2	
500-257245-A-42	A	Y	.8	2	

10/1/24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 10/29/2024 11:08:38 AM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-257720-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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10/29/2024 11:08:38 AM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job ID: 500-257720-1 — Eurofins Chicago

Job Narrative
500-257720-1

Receipt
The samples were received on 10/02/24 10:00. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 13 coolers at receipt time were 1.2º C, 2.4º C, 2.5º C, 3.0º C, 3.2º C, 3.2º C, 3.2º C, 3.7º C, 3.8º C, 4.3º C, 4.4º C, 4.8º C and 5.2º C.

Receipt Exceptions
The following samples were received outside of holding time: Samples #1, #9. #17 & 25 for IC-NO2 and NO3. Received 10/2 1000 CST.

The following sample was collected in an improper container: Sample #19- Received CN container in NaOH and Zn Acetate container (received two sulfide containers for this sample) Preserved on arrival in lab.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The method blank / CCB for analytical batch 500-788725 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 500-788852 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300.0: The following samples were analyzed outside of analytical holding time: MW-35_20240930 (500-257720-1). MW-1AR_20240930 (500-257720-9) MW-1BR_20240930 (500-257720-11) MW-2A_20241001 (500-257720-17) and MW-2B_20241001 (500-257720-19), MW-43SB_20241001 (500-257720-25).

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-788853 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 335.4: The method blank for preparation batch 500-789241 contained Cyanide, Total above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 335.4: Initial Calibration Verification (ICV) and Initial Calibration Blank (ICB) were accidentally swapped on the instrument autosampler. Both QC's meet acceptance criteria. The data has been qualified and reported. (ICB 500-789387/10) and (ICV 500-789241/27-A)

Method 300.0: The method blank for analytical batch 500-790715 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The method blank for analytical batch 500-791383 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 335.4: The method blank for preparation batch 500-789241 contained Cyanide, Total above the reporting limit (RL). Sample MW-43SB_20241001 (500-257720-25) associated with this method blank was re-prepped out of hold; therefore, the initial results are being reported in addition to the out of hold data.

Method 335.4: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. MW-43SB_20241001 (500-257720-25) Both sets of data are being reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Eurofins Chicago

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-35_20240930

Lab Sample ID: 500-257720-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	2.6		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.67		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	2.1		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	1.8		0.050	0.0098	ug/L	1		1638	Dissolved
Arsenic	1.3		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	570		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	50	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	96000		200	44	ug/L	1		6020B	Total Recoverable
Chromium	1.4	J	5.0	1.1	ug/L	1		6020B	Total Recoverable
Copper	2.3		2.0	0.50	ug/L	1		6020B	Total Recoverable
Lithium	9.1	J	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	13000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	390		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1100		500	110	ug/L	1		6020B	Total Recoverable
Sodium	6400		200	77	ug/L	1		6020B	Total Recoverable
Strontium	140		4.0	0.64	ug/L	1		6020B	Total Recoverable
Tin	2.1	J	5.0	1.3	ug/L	1		6020B	Total Recoverable
Vanadium	3.0	J	5.0	2.2	ug/L	1		6020B	Total Recoverable
Arsenic	1.2		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	470		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	58	B	50	13	ug/L	1		6020B	Dissolved
Calcium	91000		200	44	ug/L	1		6020B	Dissolved
Copper	5.5		2.0	0.50	ug/L	1		6020B	Dissolved
Lithium	9.3	J	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	13000		200	49	ug/L	1		6020B	Dissolved
Manganese	1.8	J	2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1100		500	110	ug/L	1		6020B	Dissolved
Sodium	6400		200	77	ug/L	1		6020B	Dissolved
Strontium	150		4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	2.6	J	5.0	2.2	ug/L	1		6020B	Dissolved
Zinc	10	J	20	6.9	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	290		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	0.77	J B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.47	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	8.0		1.0	0.21	mg/L	1		300.0	Total/NA
Ammonia	0.13	J	0.20	0.10	mg/L	1		350.1	Total/NA
Alkalinity	270		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	270		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	340		10	4.3	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client Sample ID: MW-35_20240930 (Continued) — Lab Sample ID: 500-257720-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfide	2.3		1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	1.7		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	1.7		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-35_20240930_FBLL — Lab Sample ID: 500-257720-2

No Detections.

Client Sample ID: MW-36_20240930 — Lab Sample ID: 500-257720-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.83		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.45	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.13		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.38		0.050	0.0098	ug/L	1		1638	Dissolved
Arsenic	2.0		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	310		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	150	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	100000		200	44	ug/L	1		6020B	Total Recoverable
Iron	2800		100	47	ug/L	1		6020B	Total Recoverable
Lithium	23		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	11000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	1100		2.5	0.79	ug/L	1		6020B	Total Recoverable
Nickel	1.2	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	440	J	500	110	ug/L	1		6020B	Total Recoverable
Sodium	37000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	1300		4.0	0.64	ug/L	1		6020B	Total Recoverable
Tin	2.4	J	5.0	1.3	ug/L	1		6020B	Total Recoverable
Arsenic	1.7		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	330		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	120	B	50	13	ug/L	1		6020B	Dissolved
Calcium	98000		200	44	ug/L	1		6020B	Dissolved
Copper	0.50	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	2000		100	47	ug/L	1		6020B	Dissolved
Lithium	22		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	14000		200	49	ug/L	1		6020B	Dissolved
Manganese	920		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	490	J	500	110	ug/L	1		6020B	Dissolved
Sodium	30000		200	77	ug/L	1		6020B	Dissolved
Strontium	1100		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	300		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-36_20240930 (Continued) — Lab Sample ID: 500-257720-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromide	0.46	J	1.0	0.18	mg/L	1		300.0	Total/NA
Nitrate as N	0.48	J	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	37	B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.49	J	1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.48	J	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	1.8		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	290		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	290		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	360		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.2	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Sulfide	0.29	J	1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	7.2		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	7.6		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-36_20240930_FBLL — Lab Sample ID: 500-257720-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.21	J	0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: NB2-1_20240930 — Lab Sample ID: 500-257720-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Uranium	0.12		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.20		0.050	0.0098	ug/L	1		1638	Dissolved
Barium	7400		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	1600	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	220000		200	44	ug/L	1		6020B	Total Recoverable
Iron	2400		100	47	ug/L	1		6020B	Total Recoverable
Lithium	69		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	68000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	2800		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	27000		500	110	ug/L	1		6020B	Total Recoverable
Sodium	220000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	3800		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	3.1	J	5.0	2.2	ug/L	1		6020B	Total Recoverable
Barium	8200		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	1600	B	50	13	ug/L	1		6020B	Dissolved
Calcium	220000		200	44	ug/L	1		6020B	Dissolved
Iron	2600		100	47	ug/L	1		6020B	Dissolved
Lithium	67		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	69000		200	49	ug/L	1		6020B	Dissolved
Manganese	2900		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	28000		500	110	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: NB2-1_20240930 (Continued) — Lab Sample ID: 500-257720-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	220000		200	77	ug/L	1		6020B	Dissolved
Strontium	4100		4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	2.9	J	5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	820		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	3.0		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	300	B	20	2.3	mg/L	20		300.0	Total/NA
Fluoride	0.54	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	9.6		1.0	0.21	mg/L	1		300.0	Total/NA
Cyanide, Total	0.0040	J B	0.0050	0.0036	mg/L	1		335.4	Total/NA
Ammonia	0.31		0.20	0.10	mg/L	1		350.1	Total/NA
Phosphorus as P	0.026	J	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	770		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	770		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	1.3		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	1400		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	5.8		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	4.1		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	4.2		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: NB2-1_20240930_FBLL — Lab Sample ID: 500-257720-6

No Detections.

Client Sample ID: NB2-3_20240930 — Lab Sample ID: 500-257720-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.47	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.56		0.50	0.20	ng/L	1		1631E	Dissolved
Arsenic	6.1		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	240		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	2100	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	26000		200	44	ug/L	1		6020B	Total Recoverable
Copper	1.4	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	1700		100	47	ug/L	1		6020B	Total Recoverable
Lithium	12		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	3100		200	49	ug/L	1		6020B	Total Recoverable
Manganese	280		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	71		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	9000		500	110	ug/L	1		6020B	Total Recoverable
Sodium	210000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	350		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	6.0		1.0	0.23	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: NB2-3_20240930 (Continued) — Lab Sample ID: 500-257720-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	280		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	2100	B	50	13	ug/L	1		6020B	Dissolved
Calcium	30000		200	44	ug/L	1		6020B	Dissolved
Iron	2000		100	47	ug/L	1		6020B	Dissolved
Lithium	13		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	3700		200	49	ug/L	1		6020B	Dissolved
Manganese	340		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	74		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	9400		500	110	ug/L	1		6020B	Dissolved
Sodium	210000		200	77	ug/L	1		6020B	Dissolved
Strontium	400		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	79		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	2.2		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	200	B	10	1.2	mg/L	10		300.0	Total/NA
Fluoride	0.58	J	1.0	0.19	mg/L	1		300.0	Total/NA
Cyanide, Total	0.0040	J B	0.0050	0.0036	mg/L	1		335.4	Total/NA
Ammonia	0.26		0.20	0.10	mg/L	1		350.1	Total/NA
Phosphorus as P	0.11		0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	230		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	230		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.40		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	620		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	5.2		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	5.1		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	5.4		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: NB2-3_20240930_FBLL — Lab Sample ID: 500-257720-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.30	J	0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: MW-1AR_20240930 — Lab Sample ID: 500-257720-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.36	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.33	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	15		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	15		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	160		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.65	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	47		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	690	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	37000		200	44	ug/L	1		6020B	Total Recoverable
Copper	1.4	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	150		100	47	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-1AR_20240930 (Continued) — Lab Sample ID: 500-257720-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	6.5	J	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	14000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	65		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	31		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	3200		500	110	ug/L	1		6020B	Total Recoverable
Sodium	87000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	540		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.67	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	45		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	730	B	50	13	ug/L	1		6020B	Dissolved
Calcium	37000		200	44	ug/L	1		6020B	Dissolved
Copper	0.62	J	2.0	0.50	ug/L	1		6020B	Dissolved
Lithium	6.1	J	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	14000		200	49	ug/L	1		6020B	Dissolved
Manganese	8.9		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	31		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	3200		500	110	ug/L	1		6020B	Dissolved
Sodium	86000		200	77	ug/L	1		6020B	Dissolved
Strontium	550		4.0	0.64	ug/L	1		6020B	Dissolved
Zinc	10	J	20	6.9	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	150		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.55	J	1.0	0.18	mg/L	1		300.0	Total/NA
Nitrate as N	0.46	J H3	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	45	B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.58	J	1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.46	J H3	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	67		5.0	1.0	mg/L	5		300.0	Total/NA
Phosphorus as P	0.089		0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	200		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	200		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	380		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	5.0		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	2.1		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	1.5		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-1AR_20240930_FBLL — Lab Sample ID: 500-257720-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.31	J	0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: MW-1BR_20240930 — Lab Sample ID: 500-257720-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.22	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.37	J	0.50	0.20	ng/L	1		1631E	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-1BR_20240930 (Continued)

Lab Sample ID: 500-257720-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Uranium	4.4		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	4.2		0.050	0.0098	ug/L	1		1638	Dissolved
Arsenic	4.5		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	110		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	1500	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	62000		200	44	ug/L	1		6020B	Total Recoverable
Copper	0.73	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	49	J	100	47	ug/L	1		6020B	Total Recoverable
Lithium	41		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	9600		200	49	ug/L	1		6020B	Total Recoverable
Manganese	240		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	4.2	J	5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	3600		500	110	ug/L	1		6020B	Total Recoverable
Sodium	83000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	1000		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	4.2		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	100		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	1600	B	50	13	ug/L	1		6020B	Dissolved
Calcium	63000		200	44	ug/L	1		6020B	Dissolved
Lithium	41		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	9800		200	49	ug/L	1		6020B	Dissolved
Manganese	220		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	4.2	J	5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	3600		500	110	ug/L	1		6020B	Dissolved
Sodium	82000		200	77	ug/L	1		6020B	Dissolved
Strontium	1000		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	190		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	1.1		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	90	B	10	1.2	mg/L	10		300.0	Total/NA
Fluoride	0.89	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	46		1.0	0.21	mg/L	1		300.0	Total/NA
Cyanide, Total	0.0040	J B	0.0050	0.0036	mg/L	1		335.4	Total/NA
Alkalinity	190		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	190		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	440		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.0		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	1.2		1.0	0.47	mg/L	1		SM 5310C	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-1BR_20240930_FBLL — Lab Sample ID: 500-257720-12

No Detections.

Client Sample ID: MW-10_20240930 — Lab Sample ID: 500-257720-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	2.6		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	1.4		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	7.9		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	7.7		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	28	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.41	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	2200		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	210	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	300000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	1.2		1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	1.1	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	890		100	47	ug/L	1		6020B	Total Recoverable
Lithium	46		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	75000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	5800		2.5	0.79	ug/L	1		6020B	Total Recoverable
Nickel	1.4	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	2600		500	110	ug/L	1		6020B	Total Recoverable
Sodium	50000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	2800		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	2.2	J	5.0	2.2	ug/L	1		6020B	Total Recoverable
Arsenic	0.37	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	2200		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	210	B	50	13	ug/L	1		6020B	Dissolved
Calcium	300000		200	44	ug/L	1		6020B	Dissolved
Cobalt	1.2		1.0	0.40	ug/L	1		6020B	Dissolved
Iron	770		100	47	ug/L	1		6020B	Dissolved
Lithium	46		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	74000		200	49	ug/L	1		6020B	Dissolved
Manganese	5600		2.5	0.79	ug/L	1		6020B	Dissolved
Nickel	1.1	J	2.0	0.63	ug/L	1		6020B	Dissolved
Potassium	2500		500	110	ug/L	1		6020B	Dissolved
Sodium	50000		200	77	ug/L	1		6020B	Dissolved
Strontium	2800		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	1100		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-10_20240930 (Continued) — Lab Sample ID: 500-257720-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromide	5.1		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	460	B	20	2.3	mg/L	20		300.0	Total/NA
Fluoride	0.51	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	11		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	480		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	480		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	1.1		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	1600		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	11		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Sulfide	1.9		1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	5.0		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	5.1		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-10_20240930_FBLL — Lab Sample ID: 500-257720-14

No Detections.

Client Sample ID: MW-5SB_20240930 — Lab Sample ID: 500-257720-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.9		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.45	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.53		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.28		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	11000		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.83	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	150		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	240	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	33000		200	44	ug/L	1		6020B	Total Recoverable
Chromium	16		5.0	1.1	ug/L	1		6020B	Total Recoverable
Cobalt	4.3		1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	12		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	8900		100	47	ug/L	1		6020B	Total Recoverable
Lead	2.9		0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	96		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	3400		200	49	ug/L	1		6020B	Total Recoverable
Manganese	210		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	110		5.0	2.5	ug/L	1		6020B	Total Recoverable
Nickel	9.2		2.0	0.63	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-5SB_20240930 (Continued) — Lab Sample ID: 500-257720-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	3700		500	110	ug/L	1		6020B	Total Recoverable
Sodium	320000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	670		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	19		5.0	2.2	ug/L	1		6020B	Total Recoverable
Zinc	23		20	6.9	ug/L	1		6020B	Total Recoverable
Aluminum	29	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.24	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	59		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	250	B	50	13	ug/L	1		6020B	Dissolved
Calcium	30000		200	44	ug/L	1		6020B	Dissolved
Lithium	85		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	650		200	49	ug/L	1		6020B	Dissolved
Manganese	30		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	100		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	520		500	110	ug/L	1		6020B	Dissolved
Sodium	310000		200	77	ug/L	1		6020B	Dissolved
Strontium	610		4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	3.1	J	5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	97		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	5.2		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	510	B	20	2.3	mg/L	20		300.0	Total/NA
Fluoride	1.4		1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	37		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.19		0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	25		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	25		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	1.0		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	990		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	31		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Sulfide	1.2		1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Dissolved Organic Carbon	1.3		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-5SB_20240930_FBLL — Lab Sample ID: 500-257720-16

No Detections.

Client Sample ID: MW-2A_20241001 — Lab Sample ID: 500-257720-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.68		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.28	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.50		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.49		0.050	0.0098	ug/L	1		1638	Dissolved
Arsenic	4.1		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	400		2.5	0.73	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-2A_20241001 (Continued)

Lab Sample ID: 500-257720-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	440	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	160000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	0.93	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	1.2	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	7500		100	47	ug/L	1		6020B	Total Recoverable
Lead	0.35	J	0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	47		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	41000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	1600		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	2.6	J	5.0	2.5	ug/L	1		6020B	Total Recoverable
Nickel	0.70	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	1700		500	110	ug/L	1		6020B	Total Recoverable
Sodium	69000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	2300		4.0	0.64	ug/L	1		6020B	Total Recoverable
Zinc	49		20	6.9	ug/L	1		6020B	Total Recoverable
Arsenic	3.4		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	390		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	450	B	50	13	ug/L	1		6020B	Dissolved
Calcium	150000		200	44	ug/L	1		6020B	Dissolved
Cobalt	0.97	J	1.0	0.40	ug/L	1		6020B	Dissolved
Iron	6200		100	47	ug/L	1		6020B	Dissolved
Lithium	43		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	38000		200	49	ug/L	1		6020B	Dissolved
Manganese	1800		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	2.6	J	5.0	2.5	ug/L	1		6020B	Dissolved
Nickel	0.85	J	2.0	0.63	ug/L	1		6020B	Dissolved
Potassium	1600		500	110	ug/L	1		6020B	Dissolved
Sodium	65000		200	77	ug/L	1		6020B	Dissolved
Strontium	2100		4.0	0.64	ug/L	1		6020B	Dissolved
Zinc	11	J	20	6.9	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	560		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.98	J	1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	110	B	10	1.2	mg/L	10		300.0	Total/NA
Sulfate	0.28	J	1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.045	J	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	490		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	490		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.48		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	730		10	4.3	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-2A_20241001 (Continued) — Lab Sample ID: 500-257720-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	16		6.3	2.4	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	9.3		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	9.7		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-2A_20241001-FBLL — Lab Sample ID: 500-257720-18

No Detections.

Client Sample ID: MW-2B_20241001 — Lab Sample ID: 500-257720-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.79		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.22	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	14		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	13		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	680		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	1.5		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	940		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	150	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	140000		200	44	ug/L	1		6020B	Total Recoverable
Chromium	1.2	J	5.0	1.1	ug/L	1		6020B	Total Recoverable
Cobalt	0.74	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	4.1		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	880		100	47	ug/L	1		6020B	Total Recoverable
Lead	0.24	J	0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	37		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	79000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	180		2.5	0.79	ug/L	1		6020B	Total Recoverable
Nickel	1.5	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	3900		500	110	ug/L	1		6020B	Total Recoverable
Sodium	19000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	1500		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	8.0		5.0	2.2	ug/L	1		6020B	Total Recoverable
Arsenic	0.95	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	910		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	160	B	50	13	ug/L	1		6020B	Dissolved
Calcium	130000		200	44	ug/L	1		6020B	Dissolved
Copper	1.6	J	2.0	0.50	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-2B_20241001 (Continued) — Lab Sample ID: 500-257720-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	160		100	47	ug/L	1		6020B	Dissolved
Lithium	36		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	75000		200	49	ug/L	1		6020B	Dissolved
Manganese	180		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	3600		500	110	ug/L	1		6020B	Dissolved
Sodium	19000		200	77	ug/L	1		6020B	Dissolved
Strontium	1500		4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	4.0	J	5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	660		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.34	J	1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	68		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	7.6		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.11		0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	560		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	560		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.40		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	700		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	40		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Sulfide	1.2		1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	4.3		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	4.7		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-2B_20241001-FBLL — Lab Sample ID: 500-257720-20

No Detections.

Client Sample ID: MW-3A_20241001 — Lab Sample ID: 500-257720-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.52		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.43	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	8.1		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	7.7		0.050	0.0098	ug/L	1		1638	Dissolved
Arsenic	1.1		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	910		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	390	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	240000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	0.92	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	1.9	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	2700		100	47	ug/L	1		6020B	Total Recoverable
Lithium	93		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	49000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	2200		2.5	0.79	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-3A_20241001 (Continued) — Lab Sample ID: 500-257720-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.90	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	1900		500	110	ug/L	1		6020B	Total Recoverable
Sodium	170000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	4800		4.0	0.64	ug/L	1		6020B	Total Recoverable
Tin	2.3	J	5.0	1.3	ug/L	1		6020B	Total Recoverable
Zinc	9.4	J	20	6.9	ug/L	1		6020B	Total Recoverable
Arsenic	0.83	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	930		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	400	B	50	13	ug/L	1		6020B	Dissolved
Calcium	250000		200	44	ug/L	1		6020B	Dissolved
Cobalt	0.88	J	1.0	0.40	ug/L	1		6020B	Dissolved
Copper	0.53	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	1700		100	47	ug/L	1		6020B	Dissolved
Lithium	93		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	51000		200	49	ug/L	1		6020B	Dissolved
Manganese	2400		2.5	0.79	ug/L	1		6020B	Dissolved
Nickel	1.0	J	2.0	0.63	ug/L	1		6020B	Dissolved
Potassium	2000		500	110	ug/L	1		6020B	Dissolved
Sodium	170000		200	77	ug/L	1		6020B	Dissolved
Strontium	4900		4.0	0.64	ug/L	1		6020B	Dissolved
Zinc	13	J	20	6.9	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	810		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	4.7		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	450		20	2.3	mg/L	20		300.0	Total/NA
Sulfate	1.9		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	450		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	450		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	1.2		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	1300		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	7.4		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Sulfide	0.64	J	1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	3.9		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	3.9		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-3A_20241001-FBLL — Lab Sample ID: 500-257720-22

No Detections.

Client Sample ID: MW-3B_20241001 — Lab Sample ID: 500-257720-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.027	J	0.050	0.022	ng/L	1		1630	Total/NA
Mercury	0.77		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.52		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	39		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	38		0.050	0.0098	ug/L	1		1638	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-3B_20241001 (Continued)

Lab Sample ID: 500-257720-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	70	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.36	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	1000		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	200	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	160000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	0.54	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	2.6		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	280		100	47	ug/L	1		6020B	Total Recoverable
Lithium	58		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	90000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	320		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	3000		500	110	ug/L	1		6020B	Total Recoverable
Sodium	63000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	2300		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	4.3	J	5.0	2.2	ug/L	1		6020B	Total Recoverable
Zinc	13	J	20	6.9	ug/L	1		6020B	Total Recoverable
Arsenic	0.42	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	1100		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	220	B	50	13	ug/L	1		6020B	Dissolved
Calcium	160000		200	44	ug/L	1		6020B	Dissolved
Cobalt	0.61	J	1.0	0.40	ug/L	1		6020B	Dissolved
Copper	0.79	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	54	J	100	47	ug/L	1		6020B	Dissolved
Lithium	61		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	96000		200	49	ug/L	1		6020B	Dissolved
Manganese	850		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	3000		500	110	ug/L	1		6020B	Dissolved
Sodium	71000		200	77	ug/L	1		6020B	Dissolved
Strontium	2400		4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	3.3	J	5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	770		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	2.3		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	270		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	8.0		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.032	J	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	480		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	480		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.77		0.33	0.33	psu	1		SM 2520B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-3B_20241001 (Continued) — Lab Sample ID: 500-257720-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	990		10	4.3	mg/L	1		SM 2540C	Total/NA
Sulfide	0.24	J	1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	2.1		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	2.3		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-3B_20241001-FBLL — Lab Sample ID: 500-257720-24

No Detections.

Client Sample ID: MW-43SB_20241001 — Lab Sample ID: 500-257720-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.30	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.11		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.069		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	170		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.26	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	320		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	110	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	160000		200	44	ug/L	1		6020B	Total Recoverable
Copper	1.4	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	100		100	47	ug/L	1		6020B	Total Recoverable
Lithium	130		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	4000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	190		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	33		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	1600		500	110	ug/L	1		6020B	Total Recoverable
Sodium	790000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	2900		4.0	0.64	ug/L	1		6020B	Total Recoverable
Tin	2.0	J	5.0	1.3	ug/L	1		6020B	Total Recoverable
Zinc	8.8	J	20	6.9	ug/L	1		6020B	Total Recoverable
Barium	310		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	110	B	50	13	ug/L	1		6020B	Dissolved
Calcium	160000		200	44	ug/L	1		6020B	Dissolved
Copper	0.56	J	2.0	0.50	ug/L	1		6020B	Dissolved
Lithium	130		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	4000		200	49	ug/L	1		6020B	Dissolved
Manganese	190		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	33		5.0	2.5	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-43SB_20241001 (Continued)

Lab Sample ID: 500-257720-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1600		500	110	ug/L	1		6020B	Dissolved
Sodium	800000		200	77	ug/L	1		6020B	Dissolved
Strontium	2900		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	400		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	11	F1 F2	1.0	0.18	mg/L	1		300.0	Total/NA
Nitrate as N	8.6	F1 H3	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	1300	B	100	12	mg/L	100		300.0	Total/NA
Nitrite as N	10	F1 H3	1.0	0.070	mg/L	1		300.0	Total/NA
Fluoride	9.6	F1 F2	1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	19	F1 H3	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	18	F1 F2	1.0	0.21	mg/L	1		300.0	Total/NA
Cyanide, Total	0.0070	B	0.0050	0.0036	mg/L	1		335.4	Total/NA
Alkalinity	28		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	28		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	2.9		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	4100		17	7.2	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	3.2	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	0.47	J	1.0	0.47	mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-43SB_20241001-FBLL

Lab Sample ID: 500-257720-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.20	J	0.50	0.20	ng/L	1		1631E	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-257720-1	MW-35_20240930	Water	09/30/24 09:45	10/02/24 10:00
500-257720-2	MW-35_20240930_FBLL	Water	09/30/24 09:45	10/02/24 10:00
500-257720-3	MW-36_20240930	Water	09/30/24 13:30	10/02/24 10:00
500-257720-4	MW-36_20240930_FBLL	Water	09/30/24 13:30	10/02/24 10:00
500-257720-5	NB2-1_20240930	Water	09/30/24 15:00	10/02/24 10:00
500-257720-6	NB2-1_20240930_FBLL	Water	09/30/24 15:00	10/02/24 10:00
500-257720-7	NB2-3_20240930	Water	09/30/24 16:45	10/02/24 10:00
500-257720-8	NB2-3_20240930_FBLL	Water	09/30/24 16:45	10/02/24 10:00
500-257720-9	MW-1AR_20240930	Water	09/30/24 10:50	10/02/24 10:00
500-257720-10	MW-1AR_20240930_FBLL	Water	09/30/24 10:50	10/02/24 10:00
500-257720-11	MW-1BR_20240930	Water	09/30/24 12:20	10/02/24 10:00
500-257720-12	MW-1BR_20240930_FBLL	Water	09/30/24 12:20	10/02/24 10:00
500-257720-13	MW-10_20240930	Water	09/30/24 15:00	10/02/24 10:00
500-257720-14	MW-10_20240930_FBLL	Water	09/30/24 15:00	10/02/24 10:00
500-257720-15	MW-5SB_20240930	Water	09/30/24 18:00	10/02/24 10:00
500-257720-16	MW-5SB_20240930_FBLL	Water	09/30/24 18:00	10/02/24 10:00
500-257720-17	MW-2A_20241001	Water	10/01/24 11:15	10/03/24 10:15
500-257720-18	MW-2A_20241001-FBLL	Water	10/01/24 11:15	10/03/24 10:15
500-257720-19	MW-2B_20241001	Water	10/01/24 12:15	10/03/24 10:15
500-257720-20	MW-2B_20241001-FBLL	Water	10/01/24 12:15	10/03/24 10:15
500-257720-21	MW-3A_20241001	Water	10/01/24 13:30	10/03/24 10:15
500-257720-22	MW-3A_20241001-FBLL	Water	10/01/24 13:30	10/03/24 10:15
500-257720-23	MW-3B_20241001	Water	10/01/24 14:15	10/03/24 10:15
500-257720-24	MW-3B_20241001-FBLL	Water	10/01/24 14:15	10/03/24 10:15
500-257720-25	MW-43SB_20241001	Water	10/01/24 08:30	10/03/24 10:15
500-257720-26	MW-43SB_20241001-FBLL	Water	10/01/24 08:30	10/03/24 10:15

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-35_20240930

Date Collected: 09/30/24 09:45
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 15:02	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 15:12	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.6**		0.50	0.20	ng/L			10/10/24 17:50	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.67**		0.50	0.20	ng/L			10/10/24 17:54	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**2.1**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 18:47	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**1.8**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 16:16	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 15:30	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:30	1
Arsenic	**1.3**		1.0	0.23	ug/L		10/16/24 08:38	10/17/24 15:30	1
Barium	**570**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 15:30	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 11:59	1
Boron	**50**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 11:59	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 15:30	1
Calcium	**96000**		200	44	ug/L		10/16/24 08:38	10/17/24 15:30	1
Chromium	**1.4**	**J**	5.0	1.1	ug/L		10/16/24 08:38	10/17/24 15:30	1
Cobalt	<0.40		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 15:30	1
Copper	**2.3**		2.0	0.50	ug/L		10/16/24 08:38	10/17/24 15:30	1
Iron	<47		100	47	ug/L		10/16/24 08:38	10/17/24 15:30	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 15:30	1
Lithium	**9.1**	**J**	10	2.5	ug/L		10/16/24 08:38	10/17/24 15:30	1
Magnesium	**13000**		200	49	ug/L		10/16/24 08:38	10/17/24 15:30	1
Manganese	**390**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 15:30	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 15:30	1
Nickel	<0.63		2.0	0.63	ug/L		10/16/24 08:38	10/21/24 11:59	1
Potassium	**1100**		500	110	ug/L		10/16/24 08:38	10/17/24 15:30	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 11:59	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 15:30	1
Sodium	**6400**		200	77	ug/L		10/16/24 08:38	10/17/24 15:30	1
Strontium	**140**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 15:30	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 15:30	1
Tin	**2.1**	**J**	5.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:30	1
Vanadium	**3.0**	**J**	5.0	2.2	ug/L		10/16/24 08:38	10/17/24 15:30	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 15:30	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-35_20240930

Date Collected: 09/30/24 09:45
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 16:07	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:07	1
Arsenic	**1.2**		1.0	0.23	ug/L		10/16/24 08:38	10/17/24 16:07	1
Barium	**470**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 16:07	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 12:57	1
Boron	**58**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 12:57	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 16:07	1
Calcium	**91000**		200	44	ug/L		10/16/24 08:38	10/17/24 16:07	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 16:07	1
Cobalt	<0.40		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 16:07	1
Copper	**5.5**		2.0	0.50	ug/L		10/16/24 08:38	10/17/24 16:07	1
Iron	<47		100	47	ug/L		10/16/24 08:38	10/17/24 16:07	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 16:07	1
Lithium	**9.3**	**J**	10	2.5	ug/L		10/16/24 08:38	10/17/24 16:07	1
Magnesium	**13000**		200	49	ug/L		10/16/24 08:38	10/17/24 16:07	1
Manganese	**1.8**	**J**	2.5	0.79	ug/L		10/16/24 08:38	10/17/24 16:07	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 16:07	1
Nickel	<0.63		2.0	0.63	ug/L		10/16/24 08:38	10/21/24 12:57	1
Potassium	**1100**		500	110	ug/L		10/16/24 08:38	10/17/24 16:07	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 12:57	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 16:07	1
Sodium	**6400**		200	77	ug/L		10/16/24 08:38	10/17/24 16:07	1
Strontium	**150**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 16:07	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 16:07	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:07	1
Vanadium	**2.6**	**J**	5.0	2.2	ug/L		10/16/24 08:38	10/17/24 16:07	1
Zinc	**10**	**J**	20	6.9	ug/L		10/16/24 08:38	10/17/24 16:07	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**290**		0.91	0.46	mg/L		10/16/24 08:38	10/18/24 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			10/02/24 14:39	1
Nitrate as N (EPA 300.0)	<0.043	H3	1.0	0.043	mg/L			10/02/24 14:39	1
Chloride (EPA 300.0)	**0.77**	**J B**	1.0	0.12	mg/L			10/02/24 14:39	1
Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			10/02/24 14:39	1
Fluoride (EPA 300.0)	**0.47**	**J**	1.0	0.19	mg/L			10/02/24 14:39	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			10/02/24 14:39	1
Sulfate (EPA 300.0)	**8.0**		1.0	0.21	mg/L			10/02/24 14:39	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/06/24 11:29	10/07/24 11:31	1
Ammonia (EPA 350.1)	**0.13**	**J**	0.20	0.10	mg/L		10/16/24 12:27	10/23/24 15:55	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:26	1
Alkalinity (SM 2320B)	**270**		5.0	3.7	mg/L			10/11/24 14:54	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**270**		5.0	3.7	mg/L			10/11/24 14:54	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/11/24 14:54	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-35_20240930
Date Collected: 09/30/24 09:45
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**340**		10	4.3	mg/L			10/03/24 03:26	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/04/24 22:24	1
Sulfide (SM 4500 S2 F)	**2.3**		1.0	0.23	mg/L			10/03/24 00:09	1
Total Organic Carbon (SM 5310C)	**1.7**		1.0	0.47	mg/L			10/15/24 15:10	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**1.7**		1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-35_20240930_FBLL
Date Collected: 09/30/24 09:45
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 17:58	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-36_20240930

Date Collected: 09/30/24 13:30
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-3

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 15:22	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 15:32	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.83**		0.50	0.20	ng/L			10/10/24 18:02	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.45**	**J**	0.50	0.20	ng/L			10/10/24 18:06	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.13**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 18:51	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.38**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 18:01	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 15:41	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:41	1
Arsenic	**2.0**		1.0	0.23	ug/L		10/16/24 08:38	10/17/24 15:41	1
Barium	**310**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 15:41	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 12:17	1
Boron	**150**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 12:17	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 15:41	1
Calcium	**100000**		200	44	ug/L		10/16/24 08:38	10/17/24 15:41	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 15:41	1
Cobalt	<0.40		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 15:41	1
Copper	<0.50		2.0	0.50	ug/L		10/16/24 08:38	10/17/24 15:41	1
Iron	**2800**		100	47	ug/L		10/16/24 08:38	10/17/24 15:41	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 15:41	1
Lithium	**23**		10	2.5	ug/L		10/16/24 08:38	10/17/24 15:41	1
Magnesium	**11000**		200	49	ug/L		10/16/24 08:38	10/17/24 15:41	1
Manganese	**1100**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 15:41	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 15:41	1
Nickel	**1.2**	**J**	2.0	0.63	ug/L		10/16/24 08:38	10/21/24 12:17	1
Potassium	**440**	**J**	500	110	ug/L		10/16/24 08:38	10/17/24 15:41	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 12:17	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 15:41	1
Sodium	**37000**		200	77	ug/L		10/16/24 08:38	10/17/24 15:41	1
Strontium	**1300**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 15:41	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 15:41	1
Tin	**2.4**	**J**	5.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:41	1
Vanadium	<2.2		5.0	2.2	ug/L		10/16/24 08:38	10/17/24 15:41	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 15:41	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-36_20240930

Date Collected: 09/30/24 13:30
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-3

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 16:09	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:09	1
Arsenic	**1.7**		1.0	0.23	ug/L		10/16/24 08:38	10/17/24 16:09	1
Barium	**330**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 16:09	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 13:00	1
Boron	**120**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 13:00	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 16:09	1
Calcium	**98000**		200	44	ug/L		10/16/24 08:38	10/17/24 16:09	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 16:09	1
Cobalt	<0.40		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 16:09	1
Copper	**0.50**	**J**	2.0	0.50	ug/L		10/16/24 08:38	10/17/24 16:09	1
Iron	**2000**		100	47	ug/L		10/16/24 08:38	10/17/24 16:09	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 16:09	1
Lithium	**22**		10	2.5	ug/L		10/16/24 08:38	10/17/24 16:09	1
Magnesium	**14000**		200	49	ug/L		10/16/24 08:38	10/17/24 16:09	1
Manganese	**920**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 16:09	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 16:09	1
Nickel	<0.63		2.0	0.63	ug/L		10/16/24 08:38	10/21/24 13:00	1
Potassium	**490**	**J**	500	110	ug/L		10/16/24 08:38	10/17/24 16:09	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 13:00	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 16:09	1
Sodium	**30000**		200	77	ug/L		10/16/24 08:38	10/17/24 16:09	1
Strontium	**1100**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 16:09	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 16:09	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:09	1
Vanadium	<2.2		5.0	2.2	ug/L		10/16/24 08:38	10/17/24 16:09	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 16:09	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**300**		0.91	0.46	mg/L		10/16/24 08:38	10/18/24 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.46**	**J**	1.0	0.18	mg/L			10/02/24 12:07	1
Nitrate as N (EPA 300.0)	**0.48**	**J**	1.0	0.043	mg/L			10/02/24 12:07	1
Chloride (EPA 300.0)	**37**	**B**	1.0	0.12	mg/L			10/02/24 12:07	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/02/24 12:07	1
Fluoride (EPA 300.0)	**0.49**	**J**	1.0	0.19	mg/L			10/02/24 12:07	1
Nitrate Nitrite as N (EPA 300.0)	**0.48**	**J**	1.0	0.070	mg/L			10/02/24 12:07	1
Sulfate (EPA 300.0)	**1.8**		1.0	0.21	mg/L			10/02/24 12:07	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/06/24 11:29	10/07/24 11:32	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/16/24 12:27	10/23/24 15:55	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:27	1
Alkalinity (SM 2320B)	**290**		5.0	3.7	mg/L			10/11/24 15:06	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**290**		5.0	3.7	mg/L			10/11/24 15:06	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/11/24 15:06	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-36_20240930
Date Collected: 09/30/24 13:30
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	360		10	4.3	mg/L			10/03/24 03:29	1
Total Suspended Solids (SM 2540D)	4.2	J	5.0	1.9	mg/L			10/04/24 22:29	1
Sulfide (SM 4500 S2 F)	0.29	J	1.0	0.23	mg/L			10/03/24 00:12	1
Total Organic Carbon (SM 5310C)	7.2		1.0	0.47	mg/L			10/15/24 15:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	7.6		1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-36_20240930_FBLL
Date Collected: 09/30/24 13:30
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-4
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21	J	0.50	0.20	ng/L			10/10/24 18:19	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: NB2-1_20240930

Date Collected: 09/30/24 15:00
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-5

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 15:43	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 15:53	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 18:23	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 18:27	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.12**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 18:54	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.20**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 18:05	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 15:44	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:44	1
Arsenic	<0.23		1.0	0.23	ug/L		10/16/24 08:38	10/17/24 15:44	1
Barium	**7400**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 15:44	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 12:21	1
Boron	**1600**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 12:21	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 15:44	1
Calcium	**220000**		200	44	ug/L		10/16/24 08:38	10/17/24 15:44	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 15:44	1
Cobalt	<0.40		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 15:44	1
Copper	<0.50		2.0	0.50	ug/L		10/16/24 08:38	10/17/24 15:44	1
Iron	**2400**		100	47	ug/L		10/16/24 08:38	10/17/24 15:44	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 15:44	1
Lithium	**69**		10	2.5	ug/L		10/16/24 08:38	10/17/24 15:44	1
Magnesium	**68000**		200	49	ug/L		10/16/24 08:38	10/17/24 15:44	1
Manganese	**2800**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 15:44	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 15:44	1
Nickel	<0.63		2.0	0.63	ug/L		10/16/24 08:38	10/21/24 12:21	1
Potassium	**27000**		500	110	ug/L		10/16/24 08:38	10/17/24 15:44	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 12:21	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 15:44	1
Sodium	**220000**		200	77	ug/L		10/16/24 08:38	10/17/24 15:44	1
Strontium	**3800**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 15:44	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 15:44	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:44	1
Vanadium	**3.1**	**J**	5.0	2.2	ug/L		10/16/24 08:38	10/17/24 15:44	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 15:44	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: NB2-1_20240930

Date Collected: 09/30/24 15:00
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-5

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 16:11	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:11	1
Arsenic	<0.23		1.0	0.23	ug/L		10/16/24 08:38	10/17/24 16:11	1
Barium	**8200**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 16:11	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 13:11	1
Boron	**1600**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 13:11	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 16:11	1
Calcium	**220000**		200	44	ug/L		10/16/24 08:38	10/17/24 16:11	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 16:11	1
Cobalt	<0.40		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 16:11	1
Copper	<0.50		2.0	0.50	ug/L		10/16/24 08:38	10/17/24 16:11	1
Iron	**2600**		100	47	ug/L		10/16/24 08:38	10/17/24 16:11	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 16:11	1
Lithium	**67**		10	2.5	ug/L		10/16/24 08:38	10/17/24 16:11	1
Magnesium	**69000**		200	49	ug/L		10/16/24 08:38	10/17/24 16:11	1
Manganese	**2900**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 16:11	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 16:11	1
Nickel	<0.63		2.0	0.63	ug/L		10/16/24 08:38	10/21/24 13:11	1
Potassium	**28000**		500	110	ug/L		10/16/24 08:38	10/17/24 16:11	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 13:11	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 16:11	1
Sodium	**220000**		200	77	ug/L		10/16/24 08:38	10/17/24 16:11	1
Strontium	**4100**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 16:11	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 16:11	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:11	1
Vanadium	**2.9**	**J**	5.0	2.2	ug/L		10/16/24 08:38	10/17/24 16:11	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 16:11	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**820**		0.91	0.46	mg/L		10/16/24 08:38	10/18/24 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**3.0**		1.0	0.18	mg/L			10/02/24 12:22	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			10/02/24 12:22	1
Chloride (EPA 300.0)	**300**	**B**	20	2.3	mg/L			10/16/24 07:08	20
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/02/24 12:22	1
Fluoride (EPA 300.0)	**0.54**	**J**	1.0	0.19	mg/L			10/02/24 12:22	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/02/24 12:22	1
Sulfate (EPA 300.0)	**9.6**		1.0	0.21	mg/L			10/02/24 12:22	1
Cyanide, Total (EPA 335.4)	**0.0040**	**J B**	0.0050	0.0036	mg/L		10/06/24 11:29	10/07/24 11:34	1
Ammonia (EPA 350.1)	**0.31**		0.20	0.10	mg/L		10/16/24 12:27	10/23/24 15:55	1
Phosphorus as P (EPA 365.1)	**0.026**	**J**	0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:27	1
Alkalinity (SM 2320B)	**770**		5.0	3.7	mg/L			10/11/24 15:17	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**770**		5.0	3.7	mg/L			10/11/24 15:17	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/11/24 15:17	1
Salinity (SM 2520B)	**1.3**		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: NB2-1_20240930
Date Collected: 09/30/24 15:00
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-5
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1400		10	4.3	mg/L			10/03/24 03:32	1
Total Suspended Solids (SM 2540D)	5.8		5.0	1.9	mg/L			10/04/24 22:34	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/03/24 00:15	1
Total Organic Carbon (SM 5310C)	4.1		1.0	0.47	mg/L			10/15/24 16:06	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	4.2		1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: NB2-1_20240930_FBLL
Date Collected: 09/30/24 15:00
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-6
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 18:31	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: NB2-3_20240930

Date Collected: 09/30/24 16:45
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-7

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 13:40	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 16:03	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.47**	**J**	0.50	0.20	ng/L			10/10/24 18:35	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.56**		0.50	0.20	ng/L			10/10/24 18:40	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 18:58	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 18:08	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 15:46	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:46	1
Arsenic	**6.1**		1.0	0.23	ug/L		10/16/24 08:38	10/17/24 15:46	1
Barium	**240**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 15:46	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 12:24	1
Boron	**2100**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 12:24	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 15:46	1
Calcium	**26000**		200	44	ug/L		10/16/24 08:38	10/17/24 15:46	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 15:46	1
Cobalt	<0.40		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 15:46	1
Copper	**1.4**	**J**	2.0	0.50	ug/L		10/16/24 08:38	10/17/24 15:46	1
Iron	**1700**		100	47	ug/L		10/16/24 08:38	10/17/24 15:46	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 15:46	1
Lithium	**12**		10	2.5	ug/L		10/16/24 08:38	10/17/24 15:46	1
Magnesium	**3100**		200	49	ug/L		10/16/24 08:38	10/17/24 15:46	1
Manganese	**280**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 15:46	1
Molybdenum	**71**		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 15:46	1
Nickel	<0.63		2.0	0.63	ug/L		10/16/24 08:38	10/21/24 12:24	1
Potassium	**9000**		500	110	ug/L		10/16/24 08:38	10/17/24 15:46	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 12:24	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 15:46	1
Sodium	**210000**		200	77	ug/L		10/16/24 08:38	10/17/24 15:46	1
Strontium	**350**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 15:46	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 15:46	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:46	1
Vanadium	<2.2		5.0	2.2	ug/L		10/16/24 08:38	10/17/24 15:46	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 15:46	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: NB2-3_20240930

Date Collected: 09/30/24 16:45
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-7

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 16:13	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:13	1
Arsenic	**6.0**		1.0	0.23	ug/L		10/16/24 08:38	10/17/24 16:13	1
Barium	**280**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 16:13	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 13:15	1
Boron	**2100**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 13:15	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 16:13	1
Calcium	**30000**		200	44	ug/L		10/16/24 08:38	10/17/24 16:13	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 16:13	1
Cobalt	<0.40		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 16:13	1
Copper	<0.50		2.0	0.50	ug/L		10/16/24 08:38	10/17/24 16:13	1
Iron	**2000**		100	47	ug/L		10/16/24 08:38	10/17/24 16:13	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 16:13	1
Lithium	**13**		10	2.5	ug/L		10/16/24 08:38	10/17/24 16:13	1
Magnesium	**3700**		200	49	ug/L		10/16/24 08:38	10/17/24 16:13	1
Manganese	**340**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 16:13	1
Molybdenum	**74**		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 16:13	1
Nickel	<0.63		2.0	0.63	ug/L		10/16/24 08:38	10/21/24 13:15	1
Potassium	**9400**		500	110	ug/L		10/16/24 08:38	10/17/24 16:13	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 13:15	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 16:13	1
Sodium	**210000**		200	77	ug/L		10/16/24 08:38	10/17/24 16:13	1
Strontium	**400**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 16:13	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 16:13	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:13	1
Vanadium	<2.2		5.0	2.2	ug/L		10/16/24 08:38	10/17/24 16:13	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 16:13	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**79**		0.91	0.46	mg/L		10/16/24 08:38	10/18/24 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**2.2**		1.0	0.18	mg/L			10/02/24 12:53	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			10/02/24 12:53	1
Chloride (EPA 300.0)	**200**	**B**	10	1.2	mg/L			10/16/24 07:53	10
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/02/24 12:53	1
Fluoride (EPA 300.0)	**0.58**	**J**	1.0	0.19	mg/L			10/02/24 12:53	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/02/24 12:53	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			10/02/24 12:53	1
Cyanide, Total (EPA 335.4)	**0.0040**	**J B**	0.0050	0.0036	mg/L		10/06/24 11:29	10/07/24 11:35	1
Ammonia (EPA 350.1)	**0.26**		0.20	0.10	mg/L		10/16/24 12:27	10/23/24 15:56	1
Phosphorus as P (EPA 365.1)	**0.11**		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:27	1
Alkalinity (SM 2320B)	**230**		5.0	3.7	mg/L			10/11/24 15:30	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**230**		5.0	3.7	mg/L			10/11/24 15:30	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/11/24 15:30	1
Salinity (SM 2520B)	**0.40**		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: NB2-3_20240930
Date Collected: 09/30/24 16:45
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-7
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	620		10	4.3	mg/L			10/03/24 03:34	1
Total Suspended Solids (SM 2540D)	5.2		5.0	1.9	mg/L			10/04/24 22:36	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/03/24 00:19	1
Total Organic Carbon (SM 5310C)	5.1		1.0	0.47	mg/L			10/15/24 16:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	5.4		1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: NB2-3_20240930_FBLL
Date Collected: 09/30/24 16:45
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-8
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30	J	0.50	0.20	ng/L			10/10/24 18:44	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-1AR_20240930

Date Collected: 09/30/24 10:50
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-9

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 17:35	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 17:45	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.36**	**J**	0.50	0.20	ng/L			10/10/24 18:48	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.33**	**J**	0.50	0.20	ng/L			10/10/24 18:52	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**15**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 19:01	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**15**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 18:12	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**160**		100	25	ug/L		10/16/24 08:38	10/17/24 15:53	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:53	1
Arsenic	**0.65**	**J**	1.0	0.23	ug/L		10/16/24 08:38	10/17/24 15:53	1
Barium	**47**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 15:53	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 12:35	1
Boron	**690**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 12:35	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 15:53	1
Calcium	**37000**		200	44	ug/L		10/16/24 08:38	10/17/24 15:53	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 15:53	1
Cobalt	<0.40		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 15:53	1
Copper	**1.4**	**J**	2.0	0.50	ug/L		10/16/24 08:38	10/17/24 15:53	1
Iron	**150**		100	47	ug/L		10/16/24 08:38	10/17/24 15:53	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 15:53	1
Lithium	**6.5**	**J**	10	2.5	ug/L		10/16/24 08:38	10/17/24 15:53	1
Magnesium	**14000**		200	49	ug/L		10/16/24 08:38	10/17/24 15:53	1
Manganese	**65**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 15:53	1
Molybdenum	**31**		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 15:53	1
Nickel	<0.63		2.0	0.63	ug/L		10/16/24 08:38	10/21/24 12:35	1
Potassium	**3200**		500	110	ug/L		10/16/24 08:38	10/17/24 15:53	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 12:35	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 15:53	1
Sodium	**87000**		200	77	ug/L		10/16/24 08:38	10/17/24 15:53	1
Strontium	**540**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 15:53	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 15:53	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:53	1
Vanadium	<2.2		5.0	2.2	ug/L		10/16/24 08:38	10/17/24 15:53	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 15:53	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-1AR_20240930

Date Collected: 09/30/24 10:50
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-9
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 16:20	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:20	1
Arsenic	**0.67**	**J**	1.0	0.23	ug/L		10/16/24 08:38	10/17/24 16:20	1
Barium	**45**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 16:20	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 13:18	1
Boron	**730**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 13:18	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 16:20	1
Calcium	**37000**		200	44	ug/L		10/16/24 08:38	10/17/24 16:20	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 16:20	1
Cobalt	<0.40		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 16:20	1
Copper	**0.62**	**J**	2.0	0.50	ug/L		10/16/24 08:38	10/17/24 16:20	1
Iron	<47		100	47	ug/L		10/16/24 08:38	10/17/24 16:20	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 16:20	1
Lithium	**6.1**	**J**	10	2.5	ug/L		10/16/24 08:38	10/17/24 16:20	1
Magnesium	**14000**		200	49	ug/L		10/16/24 08:38	10/17/24 16:20	1
Manganese	**8.9**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 16:20	1
Molybdenum	**31**		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 16:20	1
Nickel	<0.63		2.0	0.63	ug/L		10/16/24 08:38	10/21/24 13:18	1
Potassium	**3200**		500	110	ug/L		10/16/24 08:38	10/17/24 16:20	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 13:18	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 16:20	1
Sodium	**86000**		200	77	ug/L		10/16/24 08:38	10/17/24 16:20	1
Strontium	**550**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 16:20	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 16:20	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:20	1
Vanadium	<2.2		5.0	2.2	ug/L		10/16/24 08:38	10/17/24 16:20	1
Zinc	**10**	**J**	20	6.9	ug/L		10/16/24 08:38	10/17/24 16:20	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**150**		0.91	0.46	mg/L		10/16/24 08:38	10/18/24 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.55**	**J**	1.0	0.18	mg/L			10/02/24 14:54	1
Nitrate as N (EPA 300.0)	**0.46**	**J H3**	1.0	0.043	mg/L			10/02/24 14:54	1
Chloride (EPA 300.0)	**45**	**B**	1.0	0.12	mg/L			10/02/24 14:54	1
Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			10/02/24 14:54	1
Fluoride (EPA 300.0)	**0.58**	**J**	1.0	0.19	mg/L			10/02/24 14:54	1
Nitrate Nitrite as N (EPA 300.0)	**0.46**	**J H3**	1.0	0.070	mg/L			10/02/24 14:54	1
Sulfate (EPA 300.0)	**67**		5.0	1.0	mg/L			10/16/24 08:08	5
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/09/24 10:15	10/10/24 12:50	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/16/24 12:27	10/23/24 15:56	1
Phosphorus as P (EPA 365.1)	**0.089**		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:28	1
Alkalinity (SM 2320B)	**200**		5.0	3.7	mg/L			10/11/24 15:43	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**200**		5.0	3.7	mg/L			10/11/24 15:43	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/11/24 15:43	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-1AR_20240930
Date Collected: 09/30/24 10:50
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-9
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	380		10	4.3	mg/L			10/03/24 03:37	1
Total Suspended Solids (SM 2540D)	5.0		5.0	1.9	mg/L			10/06/24 19:26	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/03/24 00:22	1
Total Organic Carbon (SM 5310C)	2.1		1.0	0.47	mg/L			10/15/24 17:02	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	1.5		1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-1AR_20240930_FBLL
Date Collected: 09/30/24 10:50
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-10
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31	J	0.50	0.20	ng/L			10/10/24 18:56	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-1BR_20240930

Lab Sample ID: 500-257720-11

Date Collected: 09/30/24 12:20

Matrix: Water

Date Received: 10/02/24 10:00

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 16:54	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 17:04	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**	**J**	0.50	0.20	ng/L			10/10/24 19:09	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.37**	**J**	0.50	0.20	ng/L			10/10/24 19:13	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**4.4**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 19:05	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**4.2**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 18:15	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 15:55	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:55	1
Arsenic	**4.5**		1.0	0.23	ug/L		10/16/24 08:38	10/17/24 15:55	1
Barium	**110**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 15:55	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 12:39	1
Boron	**1500**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 12:39	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 15:55	1
Calcium	**62000**		200	44	ug/L		10/16/24 08:38	10/17/24 15:55	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 15:55	1
Cobalt	<0.40		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 15:55	1
Copper	**0.73**	**J**	2.0	0.50	ug/L		10/16/24 08:38	10/17/24 15:55	1
Iron	**49**	**J**	100	47	ug/L		10/16/24 08:38	10/17/24 15:55	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 15:55	1
Lithium	**41**		10	2.5	ug/L		10/16/24 08:38	10/17/24 15:55	1
Magnesium	**9600**		200	49	ug/L		10/16/24 08:38	10/17/24 15:55	1
Manganese	**240**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 15:55	1
Molybdenum	**4.2**	**J**	5.0	2.5	ug/L		10/16/24 08:38	10/17/24 15:55	1
Nickel	<0.63		2.0	0.63	ug/L		10/16/24 08:38	10/21/24 12:39	1
Potassium	**3600**		500	110	ug/L		10/16/24 08:38	10/17/24 15:55	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 12:39	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 15:55	1
Sodium	**83000**		200	77	ug/L		10/16/24 08:38	10/17/24 15:55	1
Strontium	**1000**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 15:55	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 15:55	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:55	1
Vanadium	<2.2		5.0	2.2	ug/L		10/16/24 08:38	10/17/24 15:55	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 15:55	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-1BR_20240930

Lab Sample ID: 500-257720-11

Date Collected: 09/30/24 12:20

Matrix: Water

Date Received: 10/02/24 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 16:22	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:22	1
Arsenic	**4.2**		1.0	0.23	ug/L		10/16/24 08:38	10/17/24 16:22	1
Barium	**100**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 16:22	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 13:22	1
Boron	**1600**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 13:22	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 16:22	1
Calcium	**63000**		200	44	ug/L		10/16/24 08:38	10/17/24 16:22	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 16:22	1
Cobalt	<0.40		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 16:22	1
Copper	<0.50		2.0	0.50	ug/L		10/16/24 08:38	10/17/24 16:22	1
Iron	<47		100	47	ug/L		10/16/24 08:38	10/17/24 16:22	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 16:22	1
Lithium	**41**		10	2.5	ug/L		10/16/24 08:38	10/17/24 16:22	1
Magnesium	**9800**		200	49	ug/L		10/16/24 08:38	10/17/24 16:22	1
Manganese	**220**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 16:22	1
Molybdenum	**4.2**	**J**	5.0	2.5	ug/L		10/16/24 08:38	10/17/24 16:22	1
Nickel	<0.63		2.0	0.63	ug/L		10/16/24 08:38	10/21/24 13:22	1
Potassium	**3600**		500	110	ug/L		10/16/24 08:38	10/17/24 16:22	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 13:22	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 16:22	1
Sodium	**82000**		200	77	ug/L		10/16/24 08:38	10/17/24 16:22	1
Strontium	**1000**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 16:22	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 16:22	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:22	1
Vanadium	<2.2		5.0	2.2	ug/L		10/16/24 08:38	10/17/24 16:22	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 16:22	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**190**		0.91	0.46	mg/L		10/16/24 08:38	10/18/24 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**1.1**		1.0	0.18	mg/L			10/02/24 11:52	1
Nitrate as N (EPA 300.0)	<0.043	H	1.0	0.043	mg/L			10/02/24 11:52	1
Chloride (EPA 300.0)	**90**	**B**	10	1.2	mg/L			10/16/24 08:24	10
Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			10/02/24 11:52	1
Fluoride (EPA 300.0)	**0.89**	**J**	1.0	0.19	mg/L			10/02/24 11:52	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			10/02/24 11:52	1
Sulfate (EPA 300.0)	**46**		1.0	0.21	mg/L			10/02/24 11:52	1
Cyanide, Total (EPA 335.4)	**0.0040**	**J B**	0.0050	0.0036	mg/L		10/06/24 11:29	10/07/24 11:36	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/16/24 12:27	10/23/24 15:57	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:28	1
Alkalinity (SM 2320B)	**190**		5.0	3.7	mg/L			10/11/24 15:57	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**190**		5.0	3.7	mg/L			10/11/24 15:57	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/11/24 15:57	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-1BR_20240930
Date Collected: 09/30/24 12:20
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-11
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**440**		10	4.3	mg/L			10/03/24 03:39	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/06/24 19:31	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/03/24 00:25	1
Total Organic Carbon (SM 5310C)	**1.0**		1.0	0.47	mg/L			10/15/24 17:30	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**1.2**		1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-1BR_20240930_FBLL
Date Collected: 09/30/24 12:20
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-12
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 19:17	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-10_20240930

Date Collected: 09/30/24 15:00
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-13

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 17:14	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 17:25	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.6**		0.50	0.20	ng/L			10/10/24 16:06	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.4**		0.50	0.20	ng/L			10/10/24 19:21	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**7.9**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 19:08	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**7.7**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 18:19	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**28**	**J**	100	25	ug/L		10/16/24 08:38	10/17/24 15:57	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:57	1
Arsenic	**0.41**	**J**	1.0	0.23	ug/L		10/16/24 08:38	10/17/24 15:57	1
Barium	**2200**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 15:57	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 12:42	1
Boron	**210**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 12:42	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 15:57	1
Calcium	**300000**		200	44	ug/L		10/16/24 08:38	10/17/24 15:57	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 15:57	1
Cobalt	**1.2**		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 15:57	1
Copper	**1.1**	**J**	2.0	0.50	ug/L		10/16/24 08:38	10/17/24 15:57	1
Iron	**890**		100	47	ug/L		10/16/24 08:38	10/17/24 15:57	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 15:57	1
Lithium	**46**		10	2.5	ug/L		10/16/24 08:38	10/17/24 15:57	1
Magnesium	**75000**		200	49	ug/L		10/16/24 08:38	10/17/24 15:57	1
Manganese	**5800**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 15:57	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 15:57	1
Nickel	**1.4**	**J**	2.0	0.63	ug/L		10/16/24 08:38	10/21/24 12:42	1
Potassium	**2600**		500	110	ug/L		10/16/24 08:38	10/17/24 15:57	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 12:42	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 15:57	1
Sodium	**50000**		200	77	ug/L		10/16/24 08:38	10/17/24 15:57	1
Strontium	**2800**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 15:57	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 15:57	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:57	1
Vanadium	**2.2**	**J**	5.0	2.2	ug/L		10/16/24 08:38	10/17/24 15:57	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 15:57	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-10_20240930

Date Collected: 09/30/24 15:00
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-13

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 16:25	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:25	1
Arsenic	**0.37**	**J**	1.0	0.23	ug/L		10/16/24 08:38	10/17/24 16:25	1
Barium	**2200**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 16:25	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 13:26	1
Boron	**210**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 13:26	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 16:25	1
Calcium	**300000**		200	44	ug/L		10/16/24 08:38	10/17/24 16:25	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 16:25	1
Cobalt	**1.2**		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 16:25	1
Copper	<0.50		2.0	0.50	ug/L		10/16/24 08:38	10/17/24 16:25	1
Iron	**770**		100	47	ug/L		10/16/24 08:38	10/17/24 16:25	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 16:25	1
Lithium	**46**		10	2.5	ug/L		10/16/24 08:38	10/17/24 16:25	1
Magnesium	**74000**		200	49	ug/L		10/16/24 08:38	10/17/24 16:25	1
Manganese	**5600**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 16:25	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 16:25	1
Nickel	**1.1**	**J**	2.0	0.63	ug/L		10/16/24 08:38	10/21/24 13:26	1
Potassium	**2500**		500	110	ug/L		10/16/24 08:38	10/17/24 16:25	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 13:26	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 16:25	1
Sodium	**50000**		200	77	ug/L		10/16/24 08:38	10/17/24 16:25	1
Strontium	**2800**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 16:25	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 16:25	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:25	1
Vanadium	<2.2		5.0	2.2	ug/L		10/16/24 08:38	10/17/24 16:25	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 16:25	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**1100**		0.91	0.46	mg/L		10/16/24 08:38	10/18/24 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**5.1**		1.0	0.18	mg/L			10/02/24 12:38	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			10/02/24 12:38	1
Chloride (EPA 300.0)	**460**	**B**	20	2.3	mg/L			10/16/24 08:39	20
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/02/24 12:38	1
Fluoride (EPA 300.0)	**0.51**	**J**	1.0	0.19	mg/L			10/02/24 12:38	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/02/24 12:38	1
Sulfate (EPA 300.0)	**11**		1.0	0.21	mg/L			10/02/24 12:38	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/09/24 10:15	10/10/24 12:50	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/16/24 12:27	10/23/24 15:57	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:29	1
Alkalinity (SM 2320B)	**480**		5.0	3.7	mg/L			10/11/24 16:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**480**		5.0	3.7	mg/L			10/11/24 16:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/11/24 16:08	1
Salinity (SM 2520B)	**1.1**		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-10_20240930
Date Collected: 09/30/24 15:00
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-13
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1600		10	4.3	mg/L			10/03/24 03:42	1
Total Suspended Solids (SM 2540D)	11		5.0	1.9	mg/L			10/06/24 19:37	1
Sulfide (SM 4500 S2 F)	1.9		1.0	0.23	mg/L			10/05/24 00:03	1
Total Organic Carbon (SM 5310C)	5.0		1.0	0.47	mg/L			10/15/24 17:58	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	5.1		1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-10_20240930_FBLL
Date Collected: 09/30/24 15:00
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-14
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 19:25	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-5SB_20240930

Date Collected: 09/30/24 18:00
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-15

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 16:13	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 16:23	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.9**		0.50	0.20	ng/L			10/10/24 19:29	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.45**	**J**	0.50	0.20	ng/L			10/10/24 19:33	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.53**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 21:47	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.28**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 18:22	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		100	25	ug/L		10/16/24 08:38	10/17/24 16:00	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:00	1
Arsenic	**0.83**	**J**	1.0	0.23	ug/L		10/16/24 08:38	10/17/24 16:00	1
Barium	**150**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 16:00	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 12:46	1
Boron	**240**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 12:46	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 16:00	1
Calcium	**33000**		200	44	ug/L		10/16/24 08:38	10/17/24 16:00	1
Chromium	**16**		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 16:00	1
Cobalt	**4.3**		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 16:00	1
Copper	**12**		2.0	0.50	ug/L		10/16/24 08:38	10/17/24 16:00	1
Iron	**8900**		100	47	ug/L		10/16/24 08:38	10/17/24 16:00	1
Lead	**2.9**		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 16:00	1
Lithium	**96**		10	2.5	ug/L		10/16/24 08:38	10/17/24 16:00	1
Magnesium	**3400**		200	49	ug/L		10/16/24 08:38	10/17/24 16:00	1
Manganese	**210**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 16:00	1
Molybdenum	**110**		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 16:00	1
Nickel	**9.2**		2.0	0.63	ug/L		10/16/24 08:38	10/21/24 12:46	1
Potassium	**3700**		500	110	ug/L		10/16/24 08:38	10/17/24 16:00	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 12:46	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 16:00	1
Sodium	**320000**		200	77	ug/L		10/16/24 08:38	10/17/24 16:00	1
Strontium	**670**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 16:00	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 16:00	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:00	1
Vanadium	**19**		5.0	2.2	ug/L		10/16/24 08:38	10/17/24 16:00	1
Zinc	**23**		20	6.9	ug/L		10/16/24 08:38	10/17/24 16:00	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-5SB_20240930

Lab Sample ID: 500-257720-15

Date Collected: 09/30/24 18:00

Matrix: Water

Date Received: 10/02/24 10:00

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**29**	**J**	100	25	ug/L		10/16/24 08:38	10/17/24 16:27	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:27	1
Arsenic	**0.24**	**J**	1.0	0.23	ug/L		10/16/24 08:38	10/17/24 16:27	1
Barium	**59**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 16:27	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 13:29	1
Boron	**250**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 13:29	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 16:27	1
Calcium	**30000**		200	44	ug/L		10/16/24 08:38	10/17/24 16:27	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 16:27	1
Cobalt	<0.40		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 16:27	1
Copper	<0.50		2.0	0.50	ug/L		10/16/24 08:38	10/17/24 16:27	1
Iron	<47		100	47	ug/L		10/16/24 08:38	10/17/24 16:27	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 16:27	1
Lithium	**85**		10	2.5	ug/L		10/16/24 08:38	10/17/24 16:27	1
Magnesium	**650**		200	49	ug/L		10/16/24 08:38	10/17/24 16:27	1
Manganese	**30**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 16:27	1
Molybdenum	**100**		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 16:27	1
Nickel	<0.63		2.0	0.63	ug/L		10/16/24 08:38	10/21/24 13:29	1
Potassium	**520**		500	110	ug/L		10/16/24 08:38	10/17/24 16:27	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 13:29	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 16:27	1
Sodium	**310000**		200	77	ug/L		10/16/24 08:38	10/17/24 16:27	1
Strontium	**610**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 16:27	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 16:27	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:27	1
Vanadium	**3.1**	**J**	5.0	2.2	ug/L		10/16/24 08:38	10/17/24 16:27	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 16:27	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**97**		0.91	0.46	mg/L		10/16/24 08:38	10/18/24 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**5.2**		1.0	0.18	mg/L			10/02/24 13:08	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			10/02/24 13:08	1
Chloride (EPA 300.0)	**510**	**B**	20	2.3	mg/L			10/16/24 08:54	20
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/02/24 13:08	1
Fluoride (EPA 300.0)	**1.4**		1.0	0.19	mg/L			10/02/24 13:08	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/02/24 13:08	1
Sulfate (EPA 300.0)	**37**		1.0	0.21	mg/L			10/02/24 13:08	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/06/24 11:29	10/07/24 11:38	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/16/24 12:27	10/23/24 15:58	1
Phosphorus as P (EPA 365.1)	**0.19**		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:30	1
Alkalinity (SM 2320B)	**25**		5.0	3.7	mg/L			10/11/24 16:22	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**25**		5.0	3.7	mg/L			10/11/24 16:22	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/11/24 16:22	1
Salinity (SM 2520B)	**1.0**		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-5SB_20240930
Date Collected: 09/30/24 18:00
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-15
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	990		10	4.3	mg/L			10/03/24 04:16	1
Total Suspended Solids (SM 2540D)	31		5.0	1.9	mg/L			10/06/24 19:42	1
Sulfide (SM 4500 S2 F)	1.2		1.0	0.23	mg/L			10/05/24 00:18	1
Total Organic Carbon (SM 5310C)	<0.47		1.0	0.47	mg/L			10/15/24 18:26	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	1.3		1.0	0.47	mg/L			10/15/24 07:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-5SB_20240930_FBLL
Date Collected: 09/30/24 18:00
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-16
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 19:38	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-2A_20241001

Date Collected: 10/01/24 11:15
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-17

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 17:55	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 14:11	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.68**		0.50	0.20	ng/L			10/10/24 19:42	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.28**	**J**	0.50	0.20	ng/L			10/10/24 19:46	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.50**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 21:51	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.49**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 18:26	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 16:02	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:02	1
Arsenic	**4.1**		1.0	0.23	ug/L		10/16/24 08:38	10/17/24 16:02	1
Barium	**400**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 16:02	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 12:50	1
Boron	**440**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 12:50	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 16:02	1
Calcium	**160000**		200	44	ug/L		10/16/24 08:38	10/17/24 16:02	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 16:02	1
Cobalt	**0.93**	**J**	1.0	0.40	ug/L		10/16/24 08:38	10/17/24 16:02	1
Copper	**1.2**	**J**	2.0	0.50	ug/L		10/16/24 08:38	10/17/24 16:02	1
Iron	**7500**		100	47	ug/L		10/16/24 08:38	10/17/24 16:02	1
Lead	**0.35**	**J**	0.50	0.19	ug/L		10/16/24 08:38	10/17/24 16:02	1
Lithium	**47**		10	2.5	ug/L		10/16/24 08:38	10/17/24 16:02	1
Magnesium	**41000**		200	49	ug/L		10/16/24 08:38	10/17/24 16:02	1
Manganese	**1600**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 16:02	1
Molybdenum	**2.6**	**J**	5.0	2.5	ug/L		10/16/24 08:38	10/17/24 16:02	1
Nickel	**0.70**	**J**	2.0	0.63	ug/L		10/16/24 08:38	10/21/24 12:50	1
Potassium	**1700**		500	110	ug/L		10/16/24 08:38	10/17/24 16:02	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 12:50	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 16:02	1
Sodium	**69000**		200	77	ug/L		10/16/24 08:38	10/17/24 16:02	1
Strontium	**2300**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 16:02	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 16:02	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:02	1
Vanadium	<2.2		5.0	2.2	ug/L		10/16/24 08:38	10/17/24 16:02	1
Zinc	**49**		20	6.9	ug/L		10/16/24 08:38	10/17/24 16:02	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-2A_20241001

Date Collected: 10/01/24 11:15
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-17

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 16:29	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:29	1
Arsenic	**3.4**		1.0	0.23	ug/L		10/16/24 08:38	10/17/24 16:29	1
Barium	**390**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 16:29	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 13:33	1
Boron	**450**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 13:33	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 16:29	1
Calcium	**150000**		200	44	ug/L		10/16/24 08:38	10/17/24 16:29	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 16:29	1
Cobalt	**0.97**	**J**	1.0	0.40	ug/L		10/16/24 08:38	10/17/24 16:29	1
Copper	<0.50		2.0	0.50	ug/L		10/16/24 08:38	10/17/24 16:29	1
Iron	**6200**		100	47	ug/L		10/16/24 08:38	10/17/24 16:29	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 16:29	1
Lithium	**43**		10	2.5	ug/L		10/16/24 08:38	10/17/24 16:29	1
Magnesium	**38000**		200	49	ug/L		10/16/24 08:38	10/17/24 16:29	1
Manganese	**1800**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 16:29	1
Molybdenum	**2.6**	**J**	5.0	2.5	ug/L		10/16/24 08:38	10/17/24 16:29	1
Nickel	**0.85**	**J**	2.0	0.63	ug/L		10/16/24 08:38	10/21/24 13:33	1
Potassium	**1600**		500	110	ug/L		10/16/24 08:38	10/17/24 16:29	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 13:33	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 16:29	1
Sodium	**65000**		200	77	ug/L		10/16/24 08:38	10/17/24 16:29	1
Strontium	**2100**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 16:29	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 16:29	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:29	1
Vanadium	<2.2		5.0	2.2	ug/L		10/16/24 08:38	10/17/24 16:29	1
Zinc	**11**	**J**	20	6.9	ug/L		10/16/24 08:38	10/17/24 16:29	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**560**		0.91	0.46	mg/L		10/16/24 08:38	10/18/24 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.98**	**J**	1.0	0.18	mg/L			10/03/24 11:05	1
Nitrate as N (EPA 300.0)	<0.043	H	1.0	0.043	mg/L			10/03/24 11:05	1
Chloride (EPA 300.0)	**110**	**B**	10	1.2	mg/L			10/16/24 09:09	10
Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			10/03/24 11:05	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			10/03/24 11:05	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			10/03/24 11:05	1
Sulfate (EPA 300.0)	**0.28**	**J**	1.0	0.21	mg/L			10/03/24 11:05	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/06/24 11:29	10/07/24 11:39	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/16/24 12:27	10/23/24 15:58	1
Phosphorus as P (EPA 365.1)	**0.045**	**J**	0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:13	1
Alkalinity (SM 2320B)	**490**		5.0	3.7	mg/L			10/14/24 16:11	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**490**		5.0	3.7	mg/L			10/14/24 16:11	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/14/24 16:11	1
Salinity (SM 2520B)	**0.48**		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-2A_20241001
Date Collected: 10/01/24 11:15
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-17
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	730		10	4.3	mg/L			10/06/24 20:23	1
Total Suspended Solids (SM 2540D)	16		6.3	2.4	mg/L			10/08/24 16:31	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/05/24 00:33	1
Total Organic Carbon (SM 5310C)	9.3		1.0	0.47	mg/L			10/18/24 11:42	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	9.7		1.0	0.47	mg/L			10/20/24 07:44	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-2A_20241001-FBLL

Lab Sample ID: 500-257720-18

Date Collected: 10/01/24 11:15

Matrix: Water

Date Received: 10/03/24 10:15

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 19:58	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-2B_20241001

Date Collected: 10/01/24 12:15
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-19

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 18:05	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 18:16	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.79**		0.50	0.20	ng/L			10/10/24 20:03	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**	**J**	0.50	0.20	ng/L			10/10/24 20:07	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**14**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 21:54	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**13**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 18:29	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**680**		100	25	ug/L		10/16/24 08:38	10/17/24 16:04	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:04	1
Arsenic	**1.5**		1.0	0.23	ug/L		10/16/24 08:38	10/17/24 16:04	1
Barium	**940**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 16:04	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 12:53	1
Boron	**150**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 12:53	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 16:04	1
Calcium	**140000**		200	44	ug/L		10/16/24 08:38	10/17/24 16:04	1
Chromium	**1.2**	**J**	5.0	1.1	ug/L		10/16/24 08:38	10/17/24 16:04	1
Cobalt	**0.74**	**J**	1.0	0.40	ug/L		10/16/24 08:38	10/17/24 16:04	1
Copper	**4.1**		2.0	0.50	ug/L		10/16/24 08:38	10/17/24 16:04	1
Iron	**880**		100	47	ug/L		10/16/24 08:38	10/17/24 16:04	1
Lead	**0.24**	**J**	0.50	0.19	ug/L		10/16/24 08:38	10/17/24 16:04	1
Lithium	**37**		10	2.5	ug/L		10/16/24 08:38	10/17/24 16:04	1
Magnesium	**79000**		200	49	ug/L		10/16/24 08:38	10/17/24 16:04	1
Manganese	**180**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 16:04	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 16:04	1
Nickel	**1.5**	**J**	2.0	0.63	ug/L		10/16/24 08:38	10/21/24 12:53	1
Potassium	**3900**		500	110	ug/L		10/16/24 08:38	10/17/24 16:04	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 12:53	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 16:04	1
Sodium	**19000**		200	77	ug/L		10/16/24 08:38	10/17/24 16:04	1
Strontium	**1500**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 16:04	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 16:04	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:04	1
Vanadium	**8.0**		5.0	2.2	ug/L		10/16/24 08:38	10/17/24 16:04	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 16:04	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-2B_20241001

Date Collected: 10/01/24 12:15
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-19

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 16:32	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:32	1
Arsenic	**0.95**	**J**	1.0	0.23	ug/L		10/16/24 08:38	10/17/24 16:32	1
Barium	**910**		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 16:32	1
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 13:36	1
Boron	**160**	**B**	50	13	ug/L		10/16/24 08:38	10/21/24 13:36	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 16:32	1
Calcium	**130000**		200	44	ug/L		10/16/24 08:38	10/17/24 16:32	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 16:32	1
Cobalt	<0.40		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 16:32	1
Copper	**1.6**	**J**	2.0	0.50	ug/L		10/16/24 08:38	10/17/24 16:32	1
Iron	**160**		100	47	ug/L		10/16/24 08:38	10/17/24 16:32	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 16:32	1
Lithium	**36**		10	2.5	ug/L		10/16/24 08:38	10/17/24 16:32	1
Magnesium	**75000**		200	49	ug/L		10/16/24 08:38	10/17/24 16:32	1
Manganese	**180**		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 16:32	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 16:32	1
Nickel	<0.63		2.0	0.63	ug/L		10/16/24 08:38	10/21/24 13:36	1
Potassium	**3600**		500	110	ug/L		10/16/24 08:38	10/17/24 16:32	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 13:36	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 16:32	1
Sodium	**19000**		200	77	ug/L		10/16/24 08:38	10/17/24 16:32	1
Strontium	**1500**		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 16:32	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 16:32	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 16:32	1
Vanadium	**4.0**	**J**	5.0	2.2	ug/L		10/16/24 08:38	10/17/24 16:32	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 16:32	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**660**		0.91	0.46	mg/L		10/16/24 08:38	10/18/24 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.34**	**J**	1.0	0.18	mg/L			10/03/24 11:21	1
Nitrate as N (EPA 300.0)	<0.043	H	1.0	0.043	mg/L			10/03/24 11:21	1
Chloride (EPA 300.0)	**68**		5.0	0.58	mg/L			10/16/24 05:44	5
Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			10/03/24 11:21	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			10/03/24 11:21	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			10/03/24 11:21	1
Sulfate (EPA 300.0)	**7.6**		1.0	0.21	mg/L			10/03/24 11:21	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/09/24 10:15	10/10/24 12:50	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/16/24 12:27	10/23/24 15:59	1
Phosphorus as P (EPA 365.1)	**0.11**		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:13	1
Alkalinity (SM 2320B)	**560**		5.0	3.7	mg/L			10/14/24 16:24	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**560**		5.0	3.7	mg/L			10/14/24 16:24	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/14/24 16:24	1
Salinity (SM 2520B)	**0.40**		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-2B_20241001
Date Collected: 10/01/24 12:15
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-19
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	700		10	4.3	mg/L			10/06/24 20:30	1
Total Suspended Solids (SM 2540D)	40		5.0	1.9	mg/L			10/08/24 16:33	1
Sulfide (SM 4500 S2 F)	1.2		1.0	0.23	mg/L			10/07/24 00:44	1
Total Organic Carbon (SM 5310C)	4.3		1.0	0.47	mg/L			10/18/24 12:10	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	4.7		1.0	0.47	mg/L			10/20/24 07:44	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-2B_20241001-FBLL

Lab Sample ID: 500-257720-20

Date Collected: 10/01/24 12:15
Matrix: Water
Date Received: 10/03/24 10:15

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 20:11	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-3A_20241001

Date Collected: 10/01/24 13:30
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-21
Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/16/24 11:21	10/16/24 23:59	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/16/24 11:21	10/17/24 00:09	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.52**		0.50	0.20	ng/L			10/10/24 20:15	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.43**	**J**	0.50	0.20	ng/L			10/10/24 20:19	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**8.1**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 17:44	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**7.7**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 18:33	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/17/24 09:10	10/22/24 17:58	1
Antimony	<1.3		3.0	1.3	ug/L		10/17/24 09:10	10/22/24 17:58	1
Arsenic	**1.1**		1.0	0.23	ug/L		10/17/24 09:10	10/22/24 15:15	1
Barium	**910**		2.5	0.73	ug/L		10/17/24 09:10	10/22/24 17:58	1
Beryllium	<0.53		1.0	0.53	ug/L		10/17/24 09:10	10/22/24 17:58	1
Boron	**390**	**B**	50	13	ug/L		10/17/24 09:10	10/22/24 17:58	1
Cadmium	<0.17		0.50	0.17	ug/L		10/17/24 09:10	10/22/24 17:58	1
Calcium	**240000**		200	44	ug/L		10/17/24 09:10	10/22/24 17:58	1
Chromium	<1.1		5.0	1.1	ug/L		10/17/24 09:10	10/22/24 15:15	1
Cobalt	**0.92**	**J**	1.0	0.40	ug/L		10/17/24 09:10	10/22/24 15:15	1
Copper	**1.9**	**J**	2.0	0.50	ug/L		10/17/24 09:10	10/22/24 17:58	1
Iron	**2700**		100	47	ug/L		10/17/24 09:10	10/22/24 15:15	1
Lead	<0.19		0.50	0.19	ug/L		10/17/24 09:10	10/22/24 15:15	1
Lithium	**93**		10	2.5	ug/L		10/17/24 09:10	10/22/24 17:58	1
Magnesium	**49000**		200	49	ug/L		10/17/24 09:10	10/22/24 17:58	1
Manganese	**2200**		2.5	0.79	ug/L		10/17/24 09:10	10/22/24 17:58	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/17/24 09:10	10/22/24 17:58	1
Nickel	**0.90**	**J**	2.0	0.63	ug/L		10/17/24 09:10	10/22/24 15:15	1
Potassium	**1900**		500	110	ug/L		10/17/24 09:10	10/22/24 17:58	1
Selenium	<0.98		2.5	0.98	ug/L		10/17/24 09:10	10/22/24 17:58	1
Silver	<0.12		0.50	0.12	ug/L		10/17/24 09:10	10/22/24 15:15	1
Sodium	**170000**		200	77	ug/L		10/17/24 09:10	10/22/24 17:58	1
Strontium	**4800**		4.0	0.64	ug/L		10/17/24 09:10	10/22/24 17:58	1
Thallium	<0.57		2.0	0.57	ug/L		10/17/24 09:10	10/22/24 15:15	1
Tin	**2.3**	**J**	5.0	1.3	ug/L		10/17/24 09:10	10/22/24 15:15	1
Vanadium	<2.2		5.0	2.2	ug/L		10/17/24 09:10	10/22/24 15:15	1
Zinc	**9.4**	**J**	20	6.9	ug/L		10/17/24 09:10	10/22/24 15:15	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-3A_20241001

Date Collected: 10/01/24 13:30
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-21

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/17/24 09:10	10/22/24 18:06	1
Antimony	<1.3		3.0	1.3	ug/L		10/17/24 09:10	10/22/24 18:06	1
Arsenic	**0.83**	**J**	1.0	0.23	ug/L		10/17/24 09:10	10/22/24 15:22	1
Barium	**930**		2.5	0.73	ug/L		10/17/24 09:10	10/22/24 18:06	1
Beryllium	<0.53		1.0	0.53	ug/L		10/17/24 09:10	10/22/24 18:06	1
Boron	**400**	**B**	50	13	ug/L		10/17/24 09:10	10/22/24 18:06	1
Cadmium	<0.17		0.50	0.17	ug/L		10/17/24 09:10	10/22/24 18:06	1
Calcium	**250000**		200	44	ug/L		10/17/24 09:10	10/22/24 18:06	1
Chromium	<1.1		5.0	1.1	ug/L		10/17/24 09:10	10/22/24 15:22	1
Cobalt	**0.88**	**J**	1.0	0.40	ug/L		10/17/24 09:10	10/22/24 15:22	1
Copper	**0.53**	**J**	2.0	0.50	ug/L		10/17/24 09:10	10/22/24 18:06	1
Iron	**1700**		100	47	ug/L		10/17/24 09:10	10/22/24 15:22	1
Lead	<0.19		0.50	0.19	ug/L		10/17/24 09:10	10/22/24 15:22	1
Lithium	**93**		10	2.5	ug/L		10/17/24 09:10	10/22/24 18:06	1
Magnesium	**51000**		200	49	ug/L		10/17/24 09:10	10/22/24 18:06	1
Manganese	**2400**		2.5	0.79	ug/L		10/17/24 09:10	10/22/24 18:06	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/17/24 09:10	10/22/24 18:06	1
Nickel	**1.0**	**J**	2.0	0.63	ug/L		10/17/24 09:10	10/22/24 15:22	1
Potassium	**2000**		500	110	ug/L		10/17/24 09:10	10/22/24 18:06	1
Selenium	<0.98		2.5	0.98	ug/L		10/17/24 09:10	10/22/24 18:06	1
Silver	<0.12		0.50	0.12	ug/L		10/17/24 09:10	10/22/24 15:22	1
Sodium	**170000**		200	77	ug/L		10/17/24 09:10	10/22/24 18:06	1
Strontium	**4900**		4.0	0.64	ug/L		10/17/24 09:10	10/22/24 18:06	1
Thallium	<0.57		2.0	0.57	ug/L		10/17/24 09:10	10/22/24 15:22	1
Tin	<1.3		5.0	1.3	ug/L		10/17/24 09:10	10/22/24 15:22	1
Vanadium	<2.2		5.0	2.2	ug/L		10/17/24 09:10	10/22/24 15:22	1
Zinc	**13**	**J**	20	6.9	ug/L		10/17/24 09:10	10/22/24 15:22	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**810**		0.91	0.46	mg/L		10/17/24 09:10	10/23/24 07:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**4.7**		1.0	0.18	mg/L			10/03/24 11:36	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			10/03/24 11:36	1
Chloride (EPA 300.0)	**450**		20	2.3	mg/L			10/16/24 07:02	20
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/03/24 11:36	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			10/03/24 11:36	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/03/24 11:36	1
Sulfate (EPA 300.0)	**1.9**		1.0	0.21	mg/L			10/03/24 11:36	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/06/24 11:29	10/07/24 11:40	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/16/24 12:27	10/23/24 16:00	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:14	1
Alkalinity (SM 2320B)	**450**		5.0	3.7	mg/L			10/14/24 16:39	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**450**		5.0	3.7	mg/L			10/14/24 16:39	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/14/24 16:39	1
Salinity (SM 2520B)	**1.2**		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-3A_20241001
Date Collected: 10/01/24 13:30
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-21
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1300		10	4.3	mg/L			10/06/24 20:36	1
Total Suspended Solids (SM 2540D)	7.4		5.0	1.9	mg/L			10/08/24 16:35	1
Sulfide (SM 4500 S2 F)	0.64	J	1.0	0.23	mg/L			10/07/24 00:48	1
Total Organic Carbon (SM 5310C)	3.9		1.0	0.47	mg/L			10/18/24 12:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	3.9		1.0	0.47	mg/L			10/20/24 07:44	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-3A_20241001-FBLL
Date Collected: 10/01/24 13:30
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-22
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 20:23	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-3B_20241001

Date Collected: 10/01/24 14:15
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-23
Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.027**	**J**	0.050	0.022	ng/L		10/16/24 11:21	10/17/24 00:19	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/16/24 11:21	10/17/24 00:30	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.77**		0.50	0.20	ng/L			10/10/24 20:27	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.52**		0.50	0.20	ng/L			10/10/24 20:32	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**39**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 21:58	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**38**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 16:27	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**70**	**J**	100	25	ug/L		10/17/24 09:10	10/22/24 18:01	1
Antimony	<1.3		3.0	1.3	ug/L		10/17/24 09:10	10/22/24 18:01	1
Arsenic	**0.36**	**J**	1.0	0.23	ug/L		10/17/24 09:10	10/22/24 15:17	1
Barium	**1000**		2.5	0.73	ug/L		10/17/24 09:10	10/22/24 18:01	1
Beryllium	<0.53		1.0	0.53	ug/L		10/17/24 09:10	10/22/24 18:01	1
Boron	**200**	**B**	50	13	ug/L		10/17/24 09:10	10/22/24 18:01	1
Cadmium	<0.17		0.50	0.17	ug/L		10/17/24 09:10	10/22/24 18:01	1
Calcium	**160000**		200	44	ug/L		10/17/24 09:10	10/22/24 18:01	1
Chromium	<1.1		5.0	1.1	ug/L		10/17/24 09:10	10/22/24 15:17	1
Cobalt	**0.54**	**J**	1.0	0.40	ug/L		10/17/24 09:10	10/22/24 15:17	1
Copper	**2.6**		2.0	0.50	ug/L		10/17/24 09:10	10/22/24 18:01	1
Iron	**280**		100	47	ug/L		10/17/24 09:10	10/22/24 15:17	1
Lead	<0.19		0.50	0.19	ug/L		10/17/24 09:10	10/22/24 15:17	1
Lithium	**58**		10	2.5	ug/L		10/17/24 09:10	10/22/24 18:01	1
Magnesium	**90000**		200	49	ug/L		10/17/24 09:10	10/22/24 18:01	1
Manganese	**320**		2.5	0.79	ug/L		10/17/24 09:10	10/22/24 18:01	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/17/24 09:10	10/22/24 18:01	1
Nickel	<0.63		2.0	0.63	ug/L		10/17/24 09:10	10/22/24 15:17	1
Potassium	**3000**		500	110	ug/L		10/17/24 09:10	10/22/24 18:01	1
Selenium	<0.98		2.5	0.98	ug/L		10/17/24 09:10	10/22/24 18:01	1
Silver	<0.12		0.50	0.12	ug/L		10/17/24 09:10	10/22/24 15:17	1
Sodium	**63000**		200	77	ug/L		10/17/24 09:10	10/22/24 18:01	1
Strontium	**2300**		4.0	0.64	ug/L		10/17/24 09:10	10/22/24 18:01	1
Thallium	<0.57		2.0	0.57	ug/L		10/17/24 09:10	10/22/24 15:17	1
Tin	<1.3		5.0	1.3	ug/L		10/17/24 09:10	10/22/24 15:17	1
Vanadium	**4.3**	**J**	5.0	2.2	ug/L		10/17/24 09:10	10/22/24 15:17	1
Zinc	**13**	**J**	20	6.9	ug/L		10/17/24 09:10	10/22/24 15:17	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-3B_20241001

Date Collected: 10/01/24 14:15
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-23

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/17/24 09:10	10/22/24 18:08	1
Antimony	<1.3		3.0	1.3	ug/L		10/17/24 09:10	10/22/24 18:08	1
Arsenic	**0.42**	**J**	1.0	0.23	ug/L		10/17/24 09:10	10/22/24 15:24	1
Barium	**1100**		2.5	0.73	ug/L		10/17/24 09:10	10/22/24 18:08	1
Beryllium	<0.53		1.0	0.53	ug/L		10/17/24 09:10	10/22/24 18:08	1
Boron	**220**	**B**	50	13	ug/L		10/17/24 09:10	10/22/24 18:08	1
Cadmium	<0.17		0.50	0.17	ug/L		10/17/24 09:10	10/22/24 18:08	1
Calcium	**160000**		200	44	ug/L		10/17/24 09:10	10/22/24 18:08	1
Chromium	<1.1		5.0	1.1	ug/L		10/17/24 09:10	10/22/24 15:24	1
Cobalt	**0.61**	**J**	1.0	0.40	ug/L		10/17/24 09:10	10/22/24 15:24	1
Copper	**0.79**	**J**	2.0	0.50	ug/L		10/17/24 09:10	10/22/24 18:08	1
Iron	**54**	**J**	100	47	ug/L		10/17/24 09:10	10/22/24 15:24	1
Lead	<0.19		0.50	0.19	ug/L		10/17/24 09:10	10/22/24 15:24	1
Lithium	**61**		10	2.5	ug/L		10/17/24 09:10	10/22/24 18:08	1
Magnesium	**96000**		200	49	ug/L		10/17/24 09:10	10/22/24 18:08	1
Manganese	**850**		2.5	0.79	ug/L		10/17/24 09:10	10/22/24 18:08	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/17/24 09:10	10/22/24 18:08	1
Nickel	<0.63		2.0	0.63	ug/L		10/17/24 09:10	10/22/24 15:24	1
Potassium	**3000**		500	110	ug/L		10/17/24 09:10	10/22/24 18:08	1
Selenium	<0.98		2.5	0.98	ug/L		10/17/24 09:10	10/22/24 18:08	1
Silver	<0.12		0.50	0.12	ug/L		10/17/24 09:10	10/22/24 15:24	1
Sodium	**71000**		200	77	ug/L		10/17/24 09:10	10/22/24 18:08	1
Strontium	**2400**		4.0	0.64	ug/L		10/17/24 09:10	10/22/24 18:08	1
Thallium	<0.57		2.0	0.57	ug/L		10/17/24 09:10	10/22/24 15:24	1
Tin	<1.3		5.0	1.3	ug/L		10/17/24 09:10	10/22/24 15:24	1
Vanadium	**3.3**	**J**	5.0	2.2	ug/L		10/17/24 09:10	10/22/24 15:24	1
Zinc	<6.9		20	6.9	ug/L		10/17/24 09:10	10/22/24 15:24	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**770**		0.91	0.46	mg/L		10/17/24 09:10	10/23/24 07:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**2.3**		1.0	0.18	mg/L			10/03/24 11:52	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			10/03/24 11:52	1
Chloride (EPA 300.0)	**270**		10	1.2	mg/L			10/16/24 07:17	10
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/03/24 11:52	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			10/03/24 11:52	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/03/24 11:52	1
Sulfate (EPA 300.0)	**8.0**		1.0	0.21	mg/L			10/03/24 11:52	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/06/24 11:29	10/07/24 11:43	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/16/24 12:27	10/23/24 16:00	1
Phosphorus as P (EPA 365.1)	**0.032**	**J**	0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:14	1
Alkalinity (SM 2320B)	**480**		5.0	3.7	mg/L			10/14/24 17:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**480**		5.0	3.7	mg/L			10/14/24 17:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/14/24 17:08	1
Salinity (SM 2520B)	**0.77**		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-3B_20241001
Date Collected: 10/01/24 14:15
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-23
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	990		10	4.3	mg/L			10/06/24 20:38	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/08/24 16:37	1
Sulfide (SM 4500 S2 F)	0.24	J	1.0	0.23	mg/L			10/07/24 00:52	1
Total Organic Carbon (SM 5310C)	2.1		1.0	0.47	mg/L			10/18/24 13:06	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	2.3		1.0	0.47	mg/L			10/20/24 07:44	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-3B_20241001-FBLL

Date Collected: 10/01/24 14:15
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-24

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 20:36	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-43SB_20241001

Date Collected: 10/01/24 08:30
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-25

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/16/24 11:21	10/17/24 00:40	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/16/24 11:21	10/17/24 00:50	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 20:48	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.30**	**J**	0.50	0.20	ng/L			10/10/24 16:10	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.11**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 22:01	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.069**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 18:44	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**170**		100	25	ug/L		10/17/24 09:10	10/22/24 18:03	1
Antimony	<1.3		3.0	1.3	ug/L		10/17/24 09:10	10/22/24 18:03	1
Arsenic	**0.26**	**J**	1.0	0.23	ug/L		10/17/24 09:10	10/22/24 15:20	1
Barium	**320**		2.5	0.73	ug/L		10/17/24 09:10	10/22/24 18:03	1
Beryllium	<0.53		1.0	0.53	ug/L		10/17/24 09:10	10/22/24 18:03	1
Boron	**110**	**B**	50	13	ug/L		10/17/24 09:10	10/22/24 18:03	1
Cadmium	<0.17		0.50	0.17	ug/L		10/17/24 09:10	10/22/24 18:03	1
Calcium	**160000**		200	44	ug/L		10/17/24 09:10	10/22/24 18:03	1
Chromium	<1.1		5.0	1.1	ug/L		10/17/24 09:10	10/22/24 15:20	1
Cobalt	<0.40		1.0	0.40	ug/L		10/17/24 09:10	10/22/24 15:20	1
Copper	**1.4**	**J**	2.0	0.50	ug/L		10/17/24 09:10	10/22/24 18:03	1
Iron	**100**		100	47	ug/L		10/17/24 09:10	10/22/24 15:20	1
Lead	<0.19		0.50	0.19	ug/L		10/17/24 09:10	10/22/24 15:20	1
Lithium	**130**		10	2.5	ug/L		10/17/24 09:10	10/22/24 18:03	1
Magnesium	**4000**		200	49	ug/L		10/17/24 09:10	10/22/24 18:03	1
Manganese	**190**		2.5	0.79	ug/L		10/17/24 09:10	10/22/24 18:03	1
Molybdenum	**33**		5.0	2.5	ug/L		10/17/24 09:10	10/22/24 18:03	1
Nickel	<0.63		2.0	0.63	ug/L		10/17/24 09:10	10/22/24 15:20	1
Potassium	**1600**		500	110	ug/L		10/17/24 09:10	10/22/24 18:03	1
Selenium	<0.98		2.5	0.98	ug/L		10/17/24 09:10	10/22/24 18:03	1
Silver	<0.12		0.50	0.12	ug/L		10/17/24 09:10	10/22/24 15:20	1
Sodium	**790000**		200	77	ug/L		10/17/24 09:10	10/22/24 18:03	1
Strontium	**2900**		4.0	0.64	ug/L		10/17/24 09:10	10/22/24 18:03	1
Thallium	<0.57		2.0	0.57	ug/L		10/17/24 09:10	10/22/24 15:20	1
Tin	**2.0**	**J**	5.0	1.3	ug/L		10/17/24 09:10	10/22/24 15:20	1
Vanadium	<2.2		5.0	2.2	ug/L		10/17/24 09:10	10/22/24 15:20	1
Zinc	**8.8**	**J**	20	6.9	ug/L		10/17/24 09:10	10/22/24 15:20	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-43SB_20241001

Date Collected: 10/01/24 08:30
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-25
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/17/24 09:10	10/22/24 18:10	1
Antimony	<1.3		3.0	1.3	ug/L		10/17/24 09:10	10/22/24 18:10	1
Arsenic	<0.23		1.0	0.23	ug/L		10/17/24 09:10	10/22/24 15:26	1
Barium	**310**		2.5	0.73	ug/L		10/17/24 09:10	10/22/24 18:10	1
Beryllium	<0.53		1.0	0.53	ug/L		10/17/24 09:10	10/22/24 18:10	1
Boron	**110**	**B**	50	13	ug/L		10/17/24 09:10	10/22/24 18:10	1
Cadmium	<0.17		0.50	0.17	ug/L		10/17/24 09:10	10/22/24 18:10	1
Calcium	**160000**		200	44	ug/L		10/17/24 09:10	10/22/24 18:10	1
Chromium	<1.1		5.0	1.1	ug/L		10/17/24 09:10	10/22/24 15:26	1
Cobalt	<0.40		1.0	0.40	ug/L		10/17/24 09:10	10/22/24 15:26	1
Copper	**0.56**	**J**	2.0	0.50	ug/L		10/17/24 09:10	10/22/24 18:10	1
Iron	<47		100	47	ug/L		10/17/24 09:10	10/22/24 15:26	1
Lead	<0.19		0.50	0.19	ug/L		10/17/24 09:10	10/22/24 15:26	1
Lithium	**130**		10	2.5	ug/L		10/17/24 09:10	10/22/24 18:10	1
Magnesium	**4000**		200	49	ug/L		10/17/24 09:10	10/22/24 18:10	1
Manganese	**190**		2.5	0.79	ug/L		10/17/24 09:10	10/22/24 18:10	1
Molybdenum	**33**		5.0	2.5	ug/L		10/17/24 09:10	10/22/24 18:10	1
Nickel	<0.63		2.0	0.63	ug/L		10/17/24 09:10	10/22/24 15:26	1
Potassium	**1600**		500	110	ug/L		10/17/24 09:10	10/22/24 18:10	1
Selenium	<0.98		2.5	0.98	ug/L		10/17/24 09:10	10/22/24 18:10	1
Silver	<0.12		0.50	0.12	ug/L		10/17/24 09:10	10/22/24 15:26	1
Sodium	**800000**		200	77	ug/L		10/17/24 09:10	10/22/24 18:10	1
Strontium	**2900**		4.0	0.64	ug/L		10/17/24 09:10	10/22/24 18:10	1
Thallium	<0.57		2.0	0.57	ug/L		10/17/24 09:10	10/22/24 15:26	1
Tin	<1.3		5.0	1.3	ug/L		10/17/24 09:10	10/22/24 15:26	1
Vanadium	<2.2		5.0	2.2	ug/L		10/17/24 09:10	10/22/24 15:26	1
Zinc	<6.9		20	6.9	ug/L		10/17/24 09:10	10/22/24 15:26	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**400**		0.91	0.46	mg/L		10/17/24 09:10	10/23/24 07:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**11**	**F1 F2**	1.0	0.18	mg/L			10/03/24 12:07	1
Nitrate as N (EPA 300.0)	**8.6**	**F1 H3**	1.0	0.043	mg/L			10/03/24 12:07	1
Chloride (EPA 300.0)	**1300**	**B**	100	12	mg/L			10/18/24 19:01	100
Nitrite as N (EPA 300.0)	**10**	**F1 H3**	1.0	0.070	mg/L			10/03/24 12:07	1
Fluoride (EPA 300.0)	**9.6**	**F1 F2**	1.0	0.19	mg/L			10/03/24 12:07	1
Nitrate Nitrite as N (EPA 300.0)	**19**	**F1 H3**	1.0	0.070	mg/L			10/03/24 12:07	1
Sulfate (EPA 300.0)	**18**	**F1 F2**	1.0	0.21	mg/L			10/03/24 12:07	1
Cyanide, Total (EPA 335.4)	**0.0070**	**B**	0.0050	0.0036	mg/L		10/06/24 11:29	10/07/24 11:44	1
Cyanide, Total (EPA 335.4)	<0.0036	H	0.0050	0.0036	mg/L		10/28/24 11:51	10/28/24 14:35	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/16/24 12:27	10/23/24 16:01	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:14	1
Alkalinity (SM 2320B)	**28**		5.0	3.7	mg/L			10/14/24 17:22	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**28**		5.0	3.7	mg/L			10/14/24 17:22	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/14/24 17:22	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-43SB_20241001
Date Collected: 10/01/24 08:30
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-25
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Salinity (SM 2520B)	**2.9**		0.33	0.33	psu			10/28/24 07:34	1
Total Dissolved Solids (SM 2540C)	**4100**		17	7.2	mg/L			10/06/24 20:41	1
Total Suspended Solids (SM 2540D)	**3.2**	**J**	5.0	1.9	mg/L			10/08/24 16:39	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/07/24 00:55	1
Total Organic Carbon (SM 5310C)	**0.47**	**J**	1.0	0.47	mg/L			10/18/24 13:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	<0.47		1.0	0.47	mg/L			10/20/24 07:44	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-43SB_20241001-FBLL
Date Collected: 10/01/24 08:30
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-26
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	J	0.50	0.20	ng/L			10/10/24 16:14	1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 3010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Dissolved	Water	1638	
500-257720-1	MW-35_20240930	Total Recoverable	Water	1638	
500-257720-3	MW-36_20240930	Dissolved	Water	1638	
500-257720-3	MW-36_20240930	Total Recoverable	Water	1638	
500-257720-5	NB2-1_20240930	Dissolved	Water	1638	
500-257720-5	NB2-1_20240930	Total Recoverable	Water	1638	
500-257720-7	NB2-3_20240930	Dissolved	Water	1638	
500-257720-7	NB2-3_20240930	Total Recoverable	Water	1638	
500-257720-9	MW-1AR_20240930	Dissolved	Water	1638	
500-257720-9	MW-1AR_20240930	Total Recoverable	Water	1638	
500-257720-11	MW-1BR_20240930	Dissolved	Water	1638	
500-257720-11	MW-1BR_20240930	Total Recoverable	Water	1638	
500-257720-13	MW-10_20240930	Dissolved	Water	1638	
500-257720-13	MW-10_20240930	Total Recoverable	Water	1638	
500-257720-15	MW-5SB_20240930	Dissolved	Water	1638	
500-257720-17	MW-2A_20241001	Dissolved	Water	1638	
500-257720-19	MW-2B_20241001	Dissolved	Water	1638	
500-257720-21	MW-3A_20241001	Dissolved	Water	1638	
500-257720-23	MW-3B_20241001	Dissolved	Water	1638	
500-257720-25	MW-43SB_20241001	Dissolved	Water	1638	
MB 350-3010/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-3010/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-3010/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-3010/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-257720-1 MS	MW-35_20240930	Dissolved	Water	1638	
500-257720-1 MSD	MW-35_20240930	Dissolved	Water	1638	
500-257720-23 MS	MW-3B_20241001	Dissolved	Water	1638	
500-257720-23 MSD	MW-3B_20241001	Dissolved	Water	1638	

Prep Batch: 3013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-15	MW-5SB_20240930	Total Recoverable	Water	1638	
500-257720-17	MW-2A_20241001	Total Recoverable	Water	1638	
500-257720-19	MW-2B_20241001	Total Recoverable	Water	1638	
500-257720-21	MW-3A_20241001	Total Recoverable	Water	1638	
500-257720-23	MW-3B_20241001	Total Recoverable	Water	1638	
500-257720-25	MW-43SB_20241001	Total Recoverable	Water	1638	
MB 350-3013/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-3013/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-3013/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-3013/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-257720-21 MS	MW-3A_20241001	Total Recoverable	Water	1638	
500-257720-21 MSD	MW-3A_20241001	Total Recoverable	Water	1638	

Analysis Batch: 3018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Dissolved	Water	1631E	
500-257720-1	MW-35_20240930	Total/NA	Water	1631E	
500-257720-2	MW-35_20240930_FBLL	Total/NA	Water	1631E	
500-257720-3	MW-36_20240930	Dissolved	Water	1631E	
500-257720-3	MW-36_20240930	Total/NA	Water	1631E	

Metals (Continued)

Analysis Batch: 3018 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-4	MW-36_20240930_FBLL	Total/NA	Water	1631E	
500-257720-5	NB2-1_20240930	Dissolved	Water	1631E	
500-257720-5	NB2-1_20240930	Total/NA	Water	1631E	
500-257720-6	NB2-1_20240930_FBLL	Total/NA	Water	1631E	
500-257720-7	NB2-3_20240930	Dissolved	Water	1631E	
500-257720-7	NB2-3_20240930	Total/NA	Water	1631E	
500-257720-8	NB2-3_20240930_FBLL	Total/NA	Water	1631E	
500-257720-9	MW-1AR_20240930	Dissolved	Water	1631E	
500-257720-9	MW-1AR_20240930	Total/NA	Water	1631E	
500-257720-10	MW-1AR_20240930_FBLL	Total/NA	Water	1631E	
500-257720-11	MW-1BR_20240930	Dissolved	Water	1631E	
500-257720-11	MW-1BR_20240930	Total/NA	Water	1631E	
500-257720-12	MW-1BR_20240930_FBLL	Total/NA	Water	1631E	
500-257720-13	MW-10_20240930	Dissolved	Water	1631E	
500-257720-13	MW-10_20240930	Total/NA	Water	1631E	
500-257720-14	MW-10_20240930_FBLL	Total/NA	Water	1631E	
500-257720-15	MW-5SB_20240930	Dissolved	Water	1631E	
500-257720-15	MW-5SB_20240930	Total/NA	Water	1631E	
500-257720-16	MW-5SB_20240930_FBLL	Total/NA	Water	1631E	
500-257720-17	MW-2A_20241001	Dissolved	Water	1631E	
500-257720-17	MW-2A_20241001	Total/NA	Water	1631E	
500-257720-18	MW-2A_20241001-FBLL	Total/NA	Water	1631E	
500-257720-19	MW-2B_20241001	Dissolved	Water	1631E	
500-257720-19	MW-2B_20241001	Total/NA	Water	1631E	
500-257720-20	MW-2B_20241001-FBLL	Total/NA	Water	1631E	
500-257720-21	MW-3A_20241001	Dissolved	Water	1631E	
500-257720-21	MW-3A_20241001	Total/NA	Water	1631E	
500-257720-22	MW-3A_20241001-FBLL	Total/NA	Water	1631E	
500-257720-23	MW-3B_20241001	Dissolved	Water	1631E	
500-257720-23	MW-3B_20241001	Total/NA	Water	1631E	
500-257720-24	MW-3B_20241001-FBLL	Total/NA	Water	1631E	
500-257720-25	MW-43SB_20241001	Dissolved	Water	1631E	
500-257720-25	MW-43SB_20241001	Total/NA	Water	1631E	
500-257720-26	MW-43SB_20241001-FBLL	Total/NA	Water	1631E	
MB 350-3018/22	Method Blank	Total/NA	Water	1631E	
MB 350-3018/23	Method Blank	Total/NA	Water	1631E	
MB 350-3018/24	Method Blank	Total/NA	Water	1631E	
MB 350-3018/28	Method Blank	Total/NA	Water	1631E	
MB 350-3018/29	Method Blank	Total/NA	Water	1631E	
MB 350-3018/30	Method Blank	Total/NA	Water	1631E	
MB 350-3018/31	Method Blank	Total/NA	Water	1631E	
MB 350-3018/34	Method Blank	Total/NA	Water	1631E	
MB 350-3018/35	Method Blank	Total/NA	Water	1631E	
LCS 350-3018/36	Lab Control Sample	Total/NA	Water	1631E	
LCS 350-3018/40	Lab Control Sample	Total/NA	Water	1631E	
LCS 350-3018/42	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-3018/37	Lab Control Sample Dup	Total/NA	Water	1631E	
LCSD 350-3018/41	Lab Control Sample Dup	Total/NA	Water	1631E	
LCSD 350-3018/43	Lab Control Sample Dup	Total/NA	Water	1631E	

Metals

Prep Batch: 3033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Dissolved	Water	1630	
500-257720-1	MW-35_20240930	Total/NA	Water	1630	
500-257720-3	MW-36_20240930	Dissolved	Water	1630	
500-257720-3	MW-36_20240930	Total/NA	Water	1630	
500-257720-5	NB2-1_20240930	Dissolved	Water	1630	
500-257720-5	NB2-1_20240930	Total/NA	Water	1630	
500-257720-7	NB2-3_20240930	Dissolved	Water	1630	
500-257720-7	NB2-3_20240930	Total/NA	Water	1630	
500-257720-9	MW-1AR_20240930	Dissolved	Water	1630	
500-257720-9	MW-1AR_20240930	Total/NA	Water	1630	
500-257720-11	MW-1BR_20240930	Dissolved	Water	1630	
500-257720-11	MW-1BR_20240930	Total/NA	Water	1630	
500-257720-13	MW-10_20240930	Dissolved	Water	1630	
500-257720-13	MW-10_20240930	Total/NA	Water	1630	
500-257720-15	MW-5SB_20240930	Dissolved	Water	1630	
500-257720-15	MW-5SB_20240930	Total/NA	Water	1630	
500-257720-17	MW-2A_20241001	Dissolved	Water	1630	
500-257720-17	MW-2A_20241001	Total/NA	Water	1630	
500-257720-19	MW-2B_20241001	Dissolved	Water	1630	
500-257720-19	MW-2B_20241001	Total/NA	Water	1630	
MB 350-3033/1-A	Method Blank	Total/NA	Water	1630	
MB 350-3033/2-A	Method Blank	Total/NA	Water	1630	
MB 350-3033/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-3033/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-3033/5-A	Lab Control Sample Dup	Total/NA	Water	1630	
500-257720-7 MS	NB2-3_20240930	Total/NA	Water	1630	
500-257720-7 MSD	NB2-3_20240930	Total/NA	Water	1630	
500-257720-17 MS	MW-2A_20241001	Dissolved	Water	1630	
500-257720-17 MSD	MW-2A_20241001	Dissolved	Water	1630	

Analysis Batch: 3037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Dissolved	Water	1638	3010
500-257720-1	MW-35_20240930	Total Recoverable	Water	1638	3010
500-257720-3	MW-36_20240930	Dissolved	Water	1638	3010
500-257720-3	MW-36_20240930	Total Recoverable	Water	1638	3010
500-257720-5	NB2-1_20240930	Dissolved	Water	1638	3010
500-257720-5	NB2-1_20240930	Total Recoverable	Water	1638	3010
500-257720-7	NB2-3_20240930	Dissolved	Water	1638	3010
500-257720-7	NB2-3_20240930	Total Recoverable	Water	1638	3010
500-257720-9	MW-1AR_20240930	Dissolved	Water	1638	3010
500-257720-9	MW-1AR_20240930	Total Recoverable	Water	1638	3010
500-257720-11	MW-1BR_20240930	Dissolved	Water	1638	3010
500-257720-11	MW-1BR_20240930	Total Recoverable	Water	1638	3010
500-257720-13	MW-10_20240930	Dissolved	Water	1638	3010
500-257720-13	MW-10_20240930	Total Recoverable	Water	1638	3010
500-257720-15	MW-5SB_20240930	Dissolved	Water	1638	3010
500-257720-15	MW-5SB_20240930	Total Recoverable	Water	1638	3013
500-257720-17	MW-2A_20241001	Dissolved	Water	1638	3010
500-257720-17	MW-2A_20241001	Total Recoverable	Water	1638	3013
500-257720-19	MW-2B_20241001	Dissolved	Water	1638	3010

Metals (Continued)

Analysis Batch: 3037 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-19	MW-2B_20241001	Total Recoverable	Water	1638	3013
500-257720-21	MW-3A_20241001	Dissolved	Water	1638	3010
500-257720-21	MW-3A_20241001	Total Recoverable	Water	1638	3013
500-257720-23	MW-3B_20241001	Dissolved	Water	1638	3010
500-257720-23	MW-3B_20241001	Total Recoverable	Water	1638	3013
500-257720-25	MW-43SB_20241001	Dissolved	Water	1638	3010
500-257720-25	MW-43SB_20241001	Total Recoverable	Water	1638	3013
MB 350-3010/1-A	Method Blank	Total Recoverable	Water	1638	3010
MB 350-3010/2-A	Method Blank	Total Recoverable	Water	1638	3010
MB 350-3013/1-A	Method Blank	Total Recoverable	Water	1638	3013
MB 350-3013/2-A	Method Blank	Total Recoverable	Water	1638	3013
LCS 350-3010/3-A	Lab Control Sample	Total Recoverable	Water	1638	3010
LCS 350-3013/3-A	Lab Control Sample	Total Recoverable	Water	1638	3013
LCSD 350-3010/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	3010
LCSD 350-3013/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	3013
500-257720-1 MS	MW-35_20240930	Dissolved	Water	1638	3010
500-257720-1 MSD	MW-35_20240930	Dissolved	Water	1638	3010
500-257720-21 MS	MW-3A_20241001	Total Recoverable	Water	1638	3013
500-257720-21 MSD	MW-3A_20241001	Total Recoverable	Water	1638	3013
500-257720-23 MS	MW-3B_20241001	Dissolved	Water	1638	3010
500-257720-23 MSD	MW-3B_20241001	Dissolved	Water	1638	3010

Prep Batch: 3052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-21	MW-3A_20241001	Dissolved	Water	1630	
500-257720-21	MW-3A_20241001	Total/NA	Water	1630	
500-257720-23	MW-3B_20241001	Dissolved	Water	1630	
500-257720-23	MW-3B_20241001	Total/NA	Water	1630	
500-257720-25	MW-43SB_20241001	Dissolved	Water	1630	
500-257720-25	MW-43SB_20241001	Total/NA	Water	1630	
MB 350-3052/1-A	Method Blank	Total/NA	Water	1630	
MB 350-3052/2-A	Method Blank	Total/NA	Water	1630	
MB 350-3052/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-3052/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-3052/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 3059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Dissolved	Water	1630	3033
500-257720-1	MW-35_20240930	Total/NA	Water	1630	3033
500-257720-3	MW-36_20240930	Dissolved	Water	1630	3033
500-257720-3	MW-36_20240930	Total/NA	Water	1630	3033
500-257720-5	NB2-1_20240930	Dissolved	Water	1630	3033
500-257720-5	NB2-1_20240930	Total/NA	Water	1630	3033
500-257720-7	NB2-3_20240930	Dissolved	Water	1630	3033
500-257720-7	NB2-3_20240930	Total/NA	Water	1630	3033
500-257720-9	MW-1AR_20240930	Dissolved	Water	1630	3033
500-257720-9	MW-1AR_20240930	Total/NA	Water	1630	3033
500-257720-11	MW-1BR_20240930	Dissolved	Water	1630	3033
500-257720-11	MW-1BR_20240930	Total/NA	Water	1630	3033
500-257720-13	MW-10_20240930	Dissolved	Water	1630	3033

Metals (Continued)

Analysis Batch: 3059 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-13	MW-10_20240930	Total/NA	Water	1630	3033
500-257720-15	MW-5SB_20240930	Dissolved	Water	1630	3033
500-257720-15	MW-5SB_20240930	Total/NA	Water	1630	3033
500-257720-17	MW-2A_20241001	Dissolved	Water	1630	3033
500-257720-17	MW-2A_20241001	Total/NA	Water	1630	3033
500-257720-19	MW-2B_20241001	Dissolved	Water	1630	3033
500-257720-19	MW-2B_20241001	Total/NA	Water	1630	3033
MB 350-3033/1-A	Method Blank	Total/NA	Water	1630	3033
MB 350-3033/2-A	Method Blank	Total/NA	Water	1630	3033
MB 350-3033/3-A	Method Blank	Total/NA	Water	1630	3033
LCS 350-3033/4-A	Lab Control Sample	Total/NA	Water	1630	3033
LCSD 350-3033/5-A	Lab Control Sample Dup	Total/NA	Water	1630	3033
500-257720-7 MS	NB2-3_20240930	Total/NA	Water	1630	3033
500-257720-7 MSD	NB2-3_20240930	Total/NA	Water	1630	3033
500-257720-17 MS	MW-2A_20241001	Dissolved	Water	1630	3033
500-257720-17 MSD	MW-2A_20241001	Dissolved	Water	1630	3033

Analysis Batch: 3064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-21	MW-3A_20241001	Dissolved	Water	1630	3052
500-257720-21	MW-3A_20241001	Total/NA	Water	1630	3052
500-257720-23	MW-3B_20241001	Dissolved	Water	1630	3052
500-257720-23	MW-3B_20241001	Total/NA	Water	1630	3052
500-257720-25	MW-43SB_20241001	Dissolved	Water	1630	3052
500-257720-25	MW-43SB_20241001	Total/NA	Water	1630	3052
MB 350-3052/1-A	Method Blank	Total/NA	Water	1630	3052
MB 350-3052/2-A	Method Blank	Total/NA	Water	1630	3052
MB 350-3052/3-A	Method Blank	Total/NA	Water	1630	3052
LCS 350-3052/4-A	Lab Control Sample	Total/NA	Water	1630	3052
LCSD 350-3052/5-A	Lab Control Sample Dup	Total/NA	Water	1630	3052

Prep Batch: 790852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Dissolved	Water	3005A	
500-257720-1	MW-35_20240930	Total Recoverable	Water	3005A	
500-257720-3	MW-36_20240930	Dissolved	Water	3005A	
500-257720-3	MW-36_20240930	Total Recoverable	Water	3005A	
500-257720-5	NB2-1_20240930	Dissolved	Water	3005A	
500-257720-5	NB2-1_20240930	Total Recoverable	Water	3005A	
500-257720-7	NB2-3_20240930	Dissolved	Water	3005A	
500-257720-7	NB2-3_20240930	Total Recoverable	Water	3005A	
500-257720-9	MW-1AR_20240930	Dissolved	Water	3005A	
500-257720-9	MW-1AR_20240930	Total Recoverable	Water	3005A	
500-257720-11	MW-1BR_20240930	Dissolved	Water	3005A	
500-257720-11	MW-1BR_20240930	Total Recoverable	Water	3005A	
500-257720-13	MW-10_20240930	Dissolved	Water	3005A	
500-257720-13	MW-10_20240930	Total Recoverable	Water	3005A	
500-257720-15	MW-5SB_20240930	Dissolved	Water	3005A	
500-257720-15	MW-5SB_20240930	Total Recoverable	Water	3005A	
500-257720-17	MW-2A_20241001	Dissolved	Water	3005A	
500-257720-17	MW-2A_20241001	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 790852 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-19	MW-2B_20241001	Dissolved	Water	3005A	
500-257720-19	MW-2B_20241001	Total Recoverable	Water	3005A	
MB 500-790852/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-790852/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-257720-1 MS	MW-35_20240930	Total Recoverable	Water	3005A	
500-257720-1 MSD	MW-35_20240930	Total Recoverable	Water	3005A	
500-257720-1 DU	MW-35_20240930	Total Recoverable	Water	3005A	

Prep Batch: 791079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-21	MW-3A_20241001	Dissolved	Water	3005A	
500-257720-21	MW-3A_20241001	Total Recoverable	Water	3005A	
500-257720-23	MW-3B_20241001	Dissolved	Water	3005A	
500-257720-23	MW-3B_20241001	Total Recoverable	Water	3005A	
500-257720-25	MW-43SB_20241001	Dissolved	Water	3005A	
500-257720-25	MW-43SB_20241001	Total Recoverable	Water	3005A	
MB 500-791079/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-791079/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 791285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Dissolved	Water	6020B	790852
500-257720-1	MW-35_20240930	Total Recoverable	Water	6020B	790852
500-257720-3	MW-36_20240930	Dissolved	Water	6020B	790852
500-257720-3	MW-36_20240930	Total Recoverable	Water	6020B	790852
500-257720-5	NB2-1_20240930	Dissolved	Water	6020B	790852
500-257720-5	NB2-1_20240930	Total Recoverable	Water	6020B	790852
500-257720-7	NB2-3_20240930	Dissolved	Water	6020B	790852
500-257720-7	NB2-3_20240930	Total Recoverable	Water	6020B	790852
500-257720-9	MW-1AR_20240930	Dissolved	Water	6020B	790852
500-257720-9	MW-1AR_20240930	Total Recoverable	Water	6020B	790852
500-257720-11	MW-1BR_20240930	Dissolved	Water	6020B	790852
500-257720-11	MW-1BR_20240930	Total Recoverable	Water	6020B	790852
500-257720-13	MW-10_20240930	Dissolved	Water	6020B	790852
500-257720-13	MW-10_20240930	Total Recoverable	Water	6020B	790852
500-257720-15	MW-5SB_20240930	Dissolved	Water	6020B	790852
500-257720-15	MW-5SB_20240930	Total Recoverable	Water	6020B	790852
500-257720-17	MW-2A_20241001	Dissolved	Water	6020B	790852
500-257720-17	MW-2A_20241001	Total Recoverable	Water	6020B	790852
500-257720-19	MW-2B_20241001	Dissolved	Water	6020B	790852
500-257720-19	MW-2B_20241001	Total Recoverable	Water	6020B	790852
MB 500-790852/1-A	Method Blank	Total Recoverable	Water	6020B	790852
LCS 500-790852/2-A	Lab Control Sample	Total Recoverable	Water	6020B	790852
500-257720-1 MS	MW-35_20240930	Total Recoverable	Water	6020B	790852
500-257720-1 MSD	MW-35_20240930	Total Recoverable	Water	6020B	790852
500-257720-1 DU	MW-35_20240930	Total Recoverable	Water	6020B	790852

Analysis Batch: 791354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Total Recoverable	Water	SM 2340B	790852
500-257720-3	MW-36_20240930	Total Recoverable	Water	SM 2340B	790852

Metals (Continued)

Analysis Batch: 791354 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-5	NB2-1_20240930	Total Recoverable	Water	SM 2340B	790852
500-257720-7	NB2-3_20240930	Total Recoverable	Water	SM 2340B	790852
500-257720-9	MW-1AR_20240930	Total Recoverable	Water	SM 2340B	790852
500-257720-11	MW-1BR_20240930	Total Recoverable	Water	SM 2340B	790852
500-257720-13	MW-10_20240930	Total Recoverable	Water	SM 2340B	790852
500-257720-15	MW-5SB_20240930	Total Recoverable	Water	SM 2340B	790852
500-257720-17	MW-2A_20241001	Total Recoverable	Water	SM 2340B	790852
500-257720-19	MW-2B_20241001	Total Recoverable	Water	SM 2340B	790852
500-257720-21	MW-3A_20241001	Total Recoverable	Water	SM 2340B	791079
500-257720-23	MW-3B_20241001	Total Recoverable	Water	SM 2340B	791079
500-257720-25	MW-43SB_20241001	Total Recoverable	Water	SM 2340B	791079

Analysis Batch: 791756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Dissolved	Water	6020B	790852
500-257720-1	MW-35_20240930	Total Recoverable	Water	6020B	790852
500-257720-3	MW-36_20240930	Dissolved	Water	6020B	790852
500-257720-3	MW-36_20240930	Total Recoverable	Water	6020B	790852
500-257720-5	NB2-1_20240930	Dissolved	Water	6020B	790852
500-257720-5	NB2-1_20240930	Total Recoverable	Water	6020B	790852
500-257720-7	NB2-3_20240930	Dissolved	Water	6020B	790852
500-257720-7	NB2-3_20240930	Total Recoverable	Water	6020B	790852
500-257720-9	MW-1AR_20240930	Dissolved	Water	6020B	790852
500-257720-9	MW-1AR_20240930	Total Recoverable	Water	6020B	790852
500-257720-11	MW-1BR_20240930	Dissolved	Water	6020B	790852
500-257720-11	MW-1BR_20240930	Total Recoverable	Water	6020B	790852
500-257720-13	MW-10_20240930	Dissolved	Water	6020B	790852
500-257720-13	MW-10_20240930	Total Recoverable	Water	6020B	790852
500-257720-15	MW-5SB_20240930	Dissolved	Water	6020B	790852
500-257720-15	MW-5SB_20240930	Total Recoverable	Water	6020B	790852
500-257720-17	MW-2A_20241001	Dissolved	Water	6020B	790852
500-257720-17	MW-2A_20241001	Total Recoverable	Water	6020B	790852
500-257720-19	MW-2B_20241001	Dissolved	Water	6020B	790852
500-257720-19	MW-2B_20241001	Total Recoverable	Water	6020B	790852
MB 500-790852/1-A	Method Blank	Total Recoverable	Water	6020B	790852
LCS 500-790852/2-A	Lab Control Sample	Total Recoverable	Water	6020B	790852
500-257720-1 MS	MW-35_20240930	Total Recoverable	Water	6020B	790852
500-257720-1 MSD	MW-35_20240930	Total Recoverable	Water	6020B	790852
500-257720-1 DU	MW-35_20240930	Total Recoverable	Water	6020B	790852

Analysis Batch: 791837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-21	MW-3A_20241001	Dissolved	Water	6020B	791079
500-257720-21	MW-3A_20241001	Total Recoverable	Water	6020B	791079
500-257720-23	MW-3B_20241001	Dissolved	Water	6020B	791079
500-257720-23	MW-3B_20241001	Total Recoverable	Water	6020B	791079
500-257720-25	MW-43SB_20241001	Dissolved	Water	6020B	791079
500-257720-25	MW-43SB_20241001	Total Recoverable	Water	6020B	791079
MB 500-791079/1-A	Method Blank	Total Recoverable	Water	6020B	791079
LCS 500-791079/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791079

Metals

Analysis Batch: 791955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-21	MW-3A_20241001	Dissolved	Water	6020B	791079
500-257720-21	MW-3A_20241001	Total Recoverable	Water	6020B	791079
500-257720-23	MW-3B_20241001	Dissolved	Water	6020B	791079
500-257720-23	MW-3B_20241001	Total Recoverable	Water	6020B	791079
500-257720-25	MW-43SB_20241001	Dissolved	Water	6020B	791079
500-257720-25	MW-43SB_20241001	Total Recoverable	Water	6020B	791079
MB 500-791079/1-A	Method Blank	Total Recoverable	Water	6020B	791079
LCS 500-791079/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791079

General Chemistry

Analysis Batch: 788725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Total/NA	Water	300.0	
500-257720-3	MW-36_20240930	Total/NA	Water	300.0	
500-257720-5	NB2-1_20240930	Total/NA	Water	300.0	
500-257720-7	NB2-3_20240930	Total/NA	Water	300.0	
500-257720-9	MW-1AR_20240930	Total/NA	Water	300.0	
500-257720-11	MW-1BR_20240930	Total/NA	Water	300.0	
500-257720-13	MW-10_20240930	Total/NA	Water	300.0	
500-257720-15	MW-5SB_20240930	Total/NA	Water	300.0	
MB 500-788725/3	Method Blank	Total/NA	Water	300.0	
LCS 500-788725/4	Lab Control Sample	Total/NA	Water	300.0	
500-257720-15 MS	MW-5SB_20240930	Total/NA	Water	300.0	
500-257720-15 MSD	MW-5SB_20240930	Total/NA	Water	300.0	

Analysis Batch: 788726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Total/NA	Water	300.0	
500-257720-3	MW-36_20240930	Total/NA	Water	300.0	
500-257720-5	NB2-1_20240930	Total/NA	Water	300.0	
500-257720-7	NB2-3_20240930	Total/NA	Water	300.0	
500-257720-9	MW-1AR_20240930	Total/NA	Water	300.0	
500-257720-11	MW-1BR_20240930	Total/NA	Water	300.0	
500-257720-13	MW-10_20240930	Total/NA	Water	300.0	
500-257720-15	MW-5SB_20240930	Total/NA	Water	300.0	
MB 500-788726/3	Method Blank	Total/NA	Water	300.0	
LCS 500-788726/4	Lab Control Sample	Total/NA	Water	300.0	
500-257720-15 MS	MW-5SB_20240930	Total/NA	Water	300.0	
500-257720-15 MSD	MW-5SB_20240930	Total/NA	Water	300.0	

Analysis Batch: 788817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Total/NA	Water	SM 4500 S2 F	
500-257720-3	MW-36_20240930	Total/NA	Water	SM 4500 S2 F	
500-257720-5	NB2-1_20240930	Total/NA	Water	SM 4500 S2 F	
500-257720-7	NB2-3_20240930	Total/NA	Water	SM 4500 S2 F	
500-257720-9	MW-1AR_20240930	Total/NA	Water	SM 4500 S2 F	
500-257720-11	MW-1BR_20240930	Total/NA	Water	SM 4500 S2 F	
MB 500-788817/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-788817/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

General Chemistry

Analysis Batch: 788818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Total/NA	Water	SM 2540C	
500-257720-3	MW-36_20240930	Total/NA	Water	SM 2540C	
500-257720-5	NB2-1_20240930	Total/NA	Water	SM 2540C	
500-257720-7	NB2-3_20240930	Total/NA	Water	SM 2540C	
500-257720-9	MW-1AR_20240930	Total/NA	Water	SM 2540C	
500-257720-11	MW-1BR_20240930	Total/NA	Water	SM 2540C	
500-257720-13	MW-10_20240930	Total/NA	Water	SM 2540C	
MB 500-788818/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-788818/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 788836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-15	MW-5SB_20240930	Total/NA	Water	SM 2540C	
MB 500-788836/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-788836/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 788852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-17	MW-2A_20241001	Total/NA	Water	300.0	
500-257720-19	MW-2B_20241001	Total/NA	Water	300.0	
500-257720-21	MW-3A_20241001	Total/NA	Water	300.0	
500-257720-23	MW-3B_20241001	Total/NA	Water	300.0	
500-257720-25	MW-43SB_20241001	Total/NA	Water	300.0	
MB 500-788852/3	Method Blank	Total/NA	Water	300.0	
LCS 500-788852/4	Lab Control Sample	Total/NA	Water	300.0	
500-257720-25 MS	MW-43SB_20241001	Total/NA	Water	300.0	
500-257720-25 MSD	MW-43SB_20241001	Total/NA	Water	300.0	

Analysis Batch: 788853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-17	MW-2A_20241001	Total/NA	Water	300.0	
500-257720-19	MW-2B_20241001	Total/NA	Water	300.0	
500-257720-21	MW-3A_20241001	Total/NA	Water	300.0	
500-257720-23	MW-3B_20241001	Total/NA	Water	300.0	
500-257720-25	MW-43SB_20241001	Total/NA	Water	300.0	
MB 500-788853/3	Method Blank	Total/NA	Water	300.0	
LCS 500-788853/4	Lab Control Sample	Total/NA	Water	300.0	
500-257720-25 MS	MW-43SB_20241001	Total/NA	Water	300.0	
500-257720-25 MSD	MW-43SB_20241001	Total/NA	Water	300.0	

Analysis Batch: 789176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Total/NA	Water	SM 2540D	
500-257720-3	MW-36_20240930	Total/NA	Water	SM 2540D	
500-257720-5	NB2-1_20240930	Total/NA	Water	SM 2540D	
500-257720-7	NB2-3_20240930	Total/NA	Water	SM 2540D	
MB 500-789176/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-789176/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-257720-3 MS	MW-36_20240930	Total/NA	Water	SM 2540D	
500-257720-1 DU	MW-35_20240930	Total/NA	Water	SM 2540D	

General Chemistry

Analysis Batch: 789177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-13	MW-10_20240930	Total/NA	Water	SM 4500 S2 F	
500-257720-15	MW-5SB_20240930	Total/NA	Water	SM 4500 S2 F	
500-257720-17	MW-2A_20241001	Total/NA	Water	SM 4500 S2 F	
MB 500-789177/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-789177/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Prep Batch: 789241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Total/NA	Water	Distill/CN	
500-257720-3	MW-36_20240930	Total/NA	Water	Distill/CN	
500-257720-5	NB2-1_20240930	Total/NA	Water	Distill/CN	
500-257720-7	NB2-3_20240930	Total/NA	Water	Distill/CN	
500-257720-11	MW-1BR_20240930	Total/NA	Water	Distill/CN	
500-257720-15	MW-5SB_20240930	Total/NA	Water	Distill/CN	
500-257720-17	MW-2A_20241001	Total/NA	Water	Distill/CN	
500-257720-21	MW-3A_20241001	Total/NA	Water	Distill/CN	
500-257720-23	MW-3B_20241001	Total/NA	Water	Distill/CN	
500-257720-25	MW-43SB_20241001	Total/NA	Water	Distill/CN	
MB 500-789241/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-789241/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
500-257720-23 MS	MW-3B_20241001	Total/NA	Water	Distill/CN	
500-257720-23 MSD	MW-3B_20241001	Total/NA	Water	Distill/CN	

Analysis Batch: 789260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-9	MW-1AR_20240930	Total/NA	Water	SM 2540D	
500-257720-11	MW-1BR_20240930	Total/NA	Water	SM 2540D	
500-257720-13	MW-10_20240930	Total/NA	Water	SM 2540D	
500-257720-15	MW-5SB_20240930	Total/NA	Water	SM 2540D	
MB 500-789260/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-789260/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-257720-9 MS	MW-1AR_20240930	Total/NA	Water	SM 2540D	
500-257720-11 DU	MW-1BR_20240930	Total/NA	Water	SM 2540D	
500-257720-13 DU	MW-10_20240930	Total/NA	Water	SM 2540D	

Analysis Batch: 789273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-17	MW-2A_20241001	Total/NA	Water	SM 2540C	
500-257720-19	MW-2B_20241001	Total/NA	Water	SM 2540C	
500-257720-21	MW-3A_20241001	Total/NA	Water	SM 2540C	
500-257720-23	MW-3B_20241001	Total/NA	Water	SM 2540C	
500-257720-25	MW-43SB_20241001	Total/NA	Water	SM 2540C	
MB 500-789273/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-789273/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-257720-17 MS	MW-2A_20241001	Total/NA	Water	SM 2540C	
500-257720-17 DU	MW-2A_20241001	Total/NA	Water	SM 2540C	
500-257720-19 DU	MW-2B_20241001	Total/NA	Water	SM 2540C	

Analysis Batch: 789278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-19	MW-2B_20241001	Total/NA	Water	SM 4500 S2 F	

General Chemistry (Continued)

Analysis Batch: 789278 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-21	MW-3A_20241001	Total/NA	Water	SM 4500 S2 F	
500-257720-23	MW-3B_20241001	Total/NA	Water	SM 4500 S2 F	
500-257720-25	MW-43SB_20241001	Total/NA	Water	SM 4500 S2 F	
MB 500-789278/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-789278/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Prep Batch: 789343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Total/NA	Water	365.2/365.3/365	
500-257720-3	MW-36_20240930	Total/NA	Water	365.2/365.3/365	
500-257720-5	NB2-1_20240930	Total/NA	Water	365.2/365.3/365	
500-257720-7	NB2-3_20240930	Total/NA	Water	365.2/365.3/365	
500-257720-9	MW-1AR_20240930	Total/NA	Water	365.2/365.3/365	
500-257720-11	MW-1BR_20240930	Total/NA	Water	365.2/365.3/365	
500-257720-13	MW-10_20240930	Total/NA	Water	365.2/365.3/365	
500-257720-15	MW-5SB_20240930	Total/NA	Water	365.2/365.3/365	
MB 500-789343/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-789343/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 789387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Total/NA	Water	335.4	789241
500-257720-3	MW-36_20240930	Total/NA	Water	335.4	789241
500-257720-5	NB2-1_20240930	Total/NA	Water	335.4	789241
500-257720-7	NB2-3_20240930	Total/NA	Water	335.4	789241
500-257720-11	MW-1BR_20240930	Total/NA	Water	335.4	789241
500-257720-15	MW-5SB_20240930	Total/NA	Water	335.4	789241
500-257720-17	MW-2A_20241001	Total/NA	Water	335.4	789241
500-257720-21	MW-3A_20241001	Total/NA	Water	335.4	789241
500-257720-23	MW-3B_20241001	Total/NA	Water	335.4	789241
500-257720-25	MW-43SB_20241001	Total/NA	Water	335.4	789241
MB 500-789241/1-A	Method Blank	Total/NA	Water	335.4	789241
LCS 500-789241/2-A	Lab Control Sample	Total/NA	Water	335.4	789241
500-257720-23 MS	MW-3B_20241001	Total/NA	Water	335.4	789241
500-257720-23 MSD	MW-3B_20241001	Total/NA	Water	335.4	789241

Analysis Batch: 789648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-17	MW-2A_20241001	Total/NA	Water	SM 2540D	
500-257720-19	MW-2B_20241001	Total/NA	Water	SM 2540D	
500-257720-21	MW-3A_20241001	Total/NA	Water	SM 2540D	
500-257720-23	MW-3B_20241001	Total/NA	Water	SM 2540D	
500-257720-25	MW-43SB_20241001	Total/NA	Water	SM 2540D	
MB 500-789648/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-789648/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 789775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-9	MW-1AR_20240930	Total/NA	Water	Distill/CN	
500-257720-13	MW-10_20240930	Total/NA	Water	Distill/CN	
500-257720-19	MW-2B_20241001	Total/NA	Water	Distill/CN	

General Chemistry (Continued)

Prep Batch: 789775 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-789775/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-789775/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 789847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Total/NA	Water	365.1	789343
500-257720-3	MW-36_20240930	Total/NA	Water	365.1	789343
500-257720-5	NB2-1_20240930	Total/NA	Water	365.1	789343
500-257720-7	NB2-3_20240930	Total/NA	Water	365.1	789343
500-257720-9	MW-1AR_20240930	Total/NA	Water	365.1	789343
500-257720-11	MW-1BR_20240930	Total/NA	Water	365.1	789343
500-257720-13	MW-10_20240930	Total/NA	Water	365.1	789343
500-257720-15	MW-5SB_20240930	Total/NA	Water	365.1	789343
MB 500-789343/1-A	Method Blank	Total/NA	Water	365.1	789343
LCS 500-789343/2-A	Lab Control Sample	Total/NA	Water	365.1	789343

Analysis Batch: 790015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-9	MW-1AR_20240930	Total/NA	Water	335.4	789775
500-257720-13	MW-10_20240930	Total/NA	Water	335.4	789775
500-257720-19	MW-2B_20241001	Total/NA	Water	335.4	789775
MB 500-789775/1-A	Method Blank	Total/NA	Water	335.4	789775
LCS 500-789775/2-A	Lab Control Sample	Total/NA	Water	335.4	789775

Analysis Batch: 790471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Total/NA	Water	SM 2320B	
500-257720-3	MW-36_20240930	Total/NA	Water	SM 2320B	
500-257720-5	NB2-1_20240930	Total/NA	Water	SM 2320B	
500-257720-7	NB2-3_20240930	Total/NA	Water	SM 2320B	
500-257720-9	MW-1AR_20240930	Total/NA	Water	SM 2320B	
500-257720-11	MW-1BR_20240930	Total/NA	Water	SM 2320B	
500-257720-13	MW-10_20240930	Total/NA	Water	SM 2320B	
500-257720-15	MW-5SB_20240930	Total/NA	Water	SM 2320B	
MB 500-790471/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-790471/29	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 790642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Dissolved	Water	SM 5310C	
500-257720-3	MW-36_20240930	Dissolved	Water	SM 5310C	
500-257720-5	NB2-1_20240930	Dissolved	Water	SM 5310C	
500-257720-7	NB2-3_20240930	Dissolved	Water	SM 5310C	
500-257720-9	MW-1AR_20240930	Dissolved	Water	SM 5310C	
500-257720-11	MW-1BR_20240930	Dissolved	Water	SM 5310C	
500-257720-13	MW-10_20240930	Dissolved	Water	SM 5310C	
500-257720-15	MW-5SB_20240930	Dissolved	Water	SM 5310C	
MB 500-790642/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-790642/8	Lab Control Sample	Dissolved	Water	SM 5310C	
500-257720-1 MS	MW-35_20240930	Dissolved	Water	SM 5310C	
500-257720-1 MSD	MW-35_20240930	Dissolved	Water	SM 5310C	

General Chemistry

Analysis Batch: 790650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-17	MW-2A_20241001	Total/NA	Water	SM 2320B	
500-257720-19	MW-2B_20241001	Total/NA	Water	SM 2320B	
500-257720-21	MW-3A_20241001	Total/NA	Water	SM 2320B	
500-257720-23	MW-3B_20241001	Total/NA	Water	SM 2320B	
500-257720-25	MW-43SB_20241001	Total/NA	Water	SM 2320B	
MB 500-790650/28	Method Blank	Total/NA	Water	SM 2320B	
MB 500-790650/53	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-790650/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-790650/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 790715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-5	NB2-1_20240930	Total/NA	Water	300.0	
500-257720-7	NB2-3_20240930	Total/NA	Water	300.0	
500-257720-9	MW-1AR_20240930	Total/NA	Water	300.0	
500-257720-11	MW-1BR_20240930	Total/NA	Water	300.0	
500-257720-13	MW-10_20240930	Total/NA	Water	300.0	
500-257720-15	MW-5SB_20240930	Total/NA	Water	300.0	
500-257720-17	MW-2A_20241001	Total/NA	Water	300.0	
MB 500-790715/72	Method Blank	Total/NA	Water	300.0	
LCS 500-790715/75	Lab Control Sample	Total/NA	Water	300.0	
500-257720-5 MS	NB2-1_20240930	Total/NA	Water	300.0	
500-257720-5 MSD	NB2-1_20240930	Total/NA	Water	300.0	

Analysis Batch: 790728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-19	MW-2B_20241001	Total/NA	Water	300.0	
500-257720-21	MW-3A_20241001	Total/NA	Water	300.0	
500-257720-23	MW-3B_20241001	Total/NA	Water	300.0	
MB 500-790728/56	Method Blank	Total/NA	Water	300.0	
LCS 500-790728/57	Lab Control Sample	Total/NA	Water	300.0	
500-257720-19 MS	MW-2B_20241001	Total/NA	Water	300.0	
500-257720-19 MSD	MW-2B_20241001	Total/NA	Water	300.0	

Analysis Batch: 790870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Total/NA	Water	SM 5310C	
500-257720-3	MW-36_20240930	Total/NA	Water	SM 5310C	
500-257720-5	NB2-1_20240930	Total/NA	Water	SM 5310C	
500-257720-7	NB2-3_20240930	Total/NA	Water	SM 5310C	
500-257720-9	MW-1AR_20240930	Total/NA	Water	SM 5310C	
500-257720-11	MW-1BR_20240930	Total/NA	Water	SM 5310C	
500-257720-13	MW-10_20240930	Total/NA	Water	SM 5310C	
500-257720-15	MW-5SB_20240930	Total/NA	Water	SM 5310C	
MB 500-790870/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-790870/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 790879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Total/NA	Water	Distill/Ammonia	
500-257720-3	MW-36_20240930	Total/NA	Water	Distill/Ammonia	

General Chemistry (Continued)

Prep Batch: 790879 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-5	NB2-1_20240930	Total/NA	Water	Distill/Ammonia	
500-257720-7	NB2-3_20240930	Total/NA	Water	Distill/Ammonia	
500-257720-9	MW-1AR_20240930	Total/NA	Water	Distill/Ammonia	
500-257720-11	MW-1BR_20240930	Total/NA	Water	Distill/Ammonia	
500-257720-13	MW-10_20240930	Total/NA	Water	Distill/Ammonia	
500-257720-15	MW-5SB_20240930	Total/NA	Water	Distill/Ammonia	
500-257720-17	MW-2A_20241001	Total/NA	Water	Distill/Ammonia	
500-257720-19	MW-2B_20241001	Total/NA	Water	Distill/Ammonia	
500-257720-21	MW-3A_20241001	Total/NA	Water	Distill/Ammonia	
500-257720-23	MW-3B_20241001	Total/NA	Water	Distill/Ammonia	
500-257720-25	MW-43SB_20241001	Total/NA	Water	Distill/Ammonia	
MB 500-790879/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-790879/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 791383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-25	MW-43SB_20241001	Total/NA	Water	300.0	
MB 500-791383/19	Method Blank	Total/NA	Water	300.0	
LCS 500-791383/20	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 791489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-17	MW-2A_20241001	Total/NA	Water	SM 5310C	
500-257720-19	MW-2B_20241001	Total/NA	Water	SM 5310C	
500-257720-21	MW-3A_20241001	Total/NA	Water	SM 5310C	
500-257720-23	MW-3B_20241001	Total/NA	Water	SM 5310C	
500-257720-25	MW-43SB_20241001	Total/NA	Water	SM 5310C	
MB 500-791489/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-791489/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 791496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-17	MW-2A_20241001	Dissolved	Water	SM 5310C	
500-257720-19	MW-2B_20241001	Dissolved	Water	SM 5310C	
500-257720-21	MW-3A_20241001	Dissolved	Water	SM 5310C	
500-257720-23	MW-3B_20241001	Dissolved	Water	SM 5310C	
500-257720-25	MW-43SB_20241001	Dissolved	Water	SM 5310C	
MB 500-791496/31	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-791496/32	Lab Control Sample	Dissolved	Water	SM 5310C	
500-257720-17 MS	MW-2A_20241001	Dissolved	Water	SM 5310C	
500-257720-17 MSD	MW-2A_20241001	Dissolved	Water	SM 5310C	

Prep Batch: 791606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-17	MW-2A_20241001	Total/NA	Water	365.2/365.3/365	
500-257720-19	MW-2B_20241001	Total/NA	Water	365.2/365.3/365	
500-257720-21	MW-3A_20241001	Total/NA	Water	365.2/365.3/365	
500-257720-23	MW-3B_20241001	Total/NA	Water	365.2/365.3/365	
500-257720-25	MW-43SB_20241001	Total/NA	Water	365.2/365.3/365	
MB 500-791606/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-791606/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

General Chemistry

Analysis Batch: 792014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-17	MW-2A_20241001	Total/NA	Water	365.1	791606
500-257720-19	MW-2B_20241001	Total/NA	Water	365.1	791606
500-257720-21	MW-3A_20241001	Total/NA	Water	365.1	791606
500-257720-23	MW-3B_20241001	Total/NA	Water	365.1	791606
500-257720-25	MW-43SB_20241001	Total/NA	Water	365.1	791606
MB 500-791606/1-A	Method Blank	Total/NA	Water	365.1	791606
LCS 500-791606/2-A	Lab Control Sample	Total/NA	Water	365.1	791606

Analysis Batch: 792058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Total/NA	Water	350.1	790879
500-257720-3	MW-36_20240930	Total/NA	Water	350.1	790879
500-257720-5	NB2-1_20240930	Total/NA	Water	350.1	790879
500-257720-7	NB2-3_20240930	Total/NA	Water	350.1	790879
500-257720-9	MW-1AR_20240930	Total/NA	Water	350.1	790879
500-257720-11	MW-1BR_20240930	Total/NA	Water	350.1	790879
500-257720-13	MW-10_20240930	Total/NA	Water	350.1	790879
500-257720-15	MW-5SB_20240930	Total/NA	Water	350.1	790879
500-257720-17	MW-2A_20241001	Total/NA	Water	350.1	790879
500-257720-19	MW-2B_20241001	Total/NA	Water	350.1	790879
500-257720-21	MW-3A_20241001	Total/NA	Water	350.1	790879
500-257720-23	MW-3B_20241001	Total/NA	Water	350.1	790879
500-257720-25	MW-43SB_20241001	Total/NA	Water	350.1	790879
MB 500-790879/1-A	Method Blank	Total/NA	Water	350.1	790879
LCS 500-790879/2-A	Lab Control Sample	Total/NA	Water	350.1	790879

Analysis Batch: 792565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-1	MW-35_20240930	Total/NA	Water	SM 2520B	
500-257720-3	MW-36_20240930	Total/NA	Water	SM 2520B	
500-257720-5	NB2-1_20240930	Total/NA	Water	SM 2520B	
500-257720-7	NB2-3_20240930	Total/NA	Water	SM 2520B	
500-257720-9	MW-1AR_20240930	Total/NA	Water	SM 2520B	
500-257720-11	MW-1BR_20240930	Total/NA	Water	SM 2520B	
500-257720-13	MW-10_20240930	Total/NA	Water	SM 2520B	
500-257720-15	MW-5SB_20240930	Total/NA	Water	SM 2520B	
500-257720-17	MW-2A_20241001	Total/NA	Water	SM 2520B	
500-257720-19	MW-2B_20241001	Total/NA	Water	SM 2520B	
500-257720-21	MW-3A_20241001	Total/NA	Water	SM 2520B	
500-257720-23	MW-3B_20241001	Total/NA	Water	SM 2520B	
500-257720-25	MW-43SB_20241001	Total/NA	Water	SM 2520B	
500-257720-5 DU	NB2-1_20240930	Total/NA	Water	SM 2520B	
500-257720-19 DU	MW-2B_20241001	Total/NA	Water	SM 2520B	

Prep Batch: 792684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-25	MW-43SB_20241001	Total/NA	Water	Distill/CN	
MB 500-792684/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-792684/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

General Chemistry

Analysis Batch: 792690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257720-25	MW-43SB_20241001	Total/NA	Water	335.4	792684
MB 500-792684/1-A	Method Blank	Total/NA	Water	335.4	792684
LCS 500-792684/2-A	Lab Control Sample	Total/NA	Water	335.4	792684

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-3033/1-A
Matrix: Water
Analysis Batch: 3059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3033

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 12:59	1

Lab Sample ID: MB 350-3033/2-A
Matrix: Water
Analysis Batch: 3059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3033

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 13:10	1

Lab Sample ID: MB 350-3033/3-A
Matrix: Water
Analysis Batch: 3059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3033

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/14/24 13:00	10/15/24 13:20	1

Lab Sample ID: LCS 350-3033/4-A
Matrix: Water
Analysis Batch: 3059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3033

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl Mercury			1.00	0.887		ng/L		89	65 - 135		

Lab Sample ID: LCSD 350-3033/5-A
Matrix: Water
Analysis Batch: 3059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3033

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury			1.00	0.867		ng/L		87	65 - 135	2	35

Lab Sample ID: 500-257720-7 MS
Matrix: Water
Analysis Batch: 3059

Client Sample ID: NB2-3_20240930
Prep Type: Total/NA
Prep Batch: 3033

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl Mercury	<0.022		1.00	0.920		ng/L		92	65 - 135		

Lab Sample ID: 500-257720-7 MSD
Matrix: Water
Analysis Batch: 3059

Client Sample ID: NB2-3_20240930
Prep Type: Total/NA
Prep Batch: 3033

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	<0.022		1.00	0.857		ng/L		86	65 - 135	7	35

Lab Sample ID: MB 350-3052/1-A
Matrix: Water
Analysis Batch: 3064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3052

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/16/24 11:21	10/16/24 21:46	1

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-3052/2-A
Matrix: Water
Analysis Batch: 3064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3052

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/16/24 11:21	10/16/24 21:57	1

Lab Sample ID: MB 350-3052/3-A
Matrix: Water
Analysis Batch: 3064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3052

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/16/24 11:21	10/16/24 22:07	1

Lab Sample ID: LCS 350-3052/4-A
Matrix: Water
Analysis Batch: 3064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3052

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl Mercury			1.00	0.852		ng/L		85	65 - 135		

Lab Sample ID: LCSD 350-3052/5-A
Matrix: Water
Analysis Batch: 3064

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3052

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury			1.00	0.853		ng/L		85	65 - 135	0	35

Lab Sample ID: 500-257720-17 MS
Matrix: Water
Analysis Batch: 3059

Client Sample ID: MW-2A_20241001
Prep Type: Dissolved
Prep Batch: 3033

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl Mercury	<0.022		1.00	0.828		ng/L		83	65 - 135		

Lab Sample ID: 500-257720-17 MSD
Matrix: Water
Analysis Batch: 3059

Client Sample ID: MW-2A_20241001
Prep Type: Dissolved
Prep Batch: 3033

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	<0.022		1.00	0.793		ng/L		79	65 - 135	4	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-3018/22
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 12:30	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-3018/23
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 12:34	1

Lab Sample ID: MB 350-3018/24
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 12:39	1

Lab Sample ID: MB 350-3018/28
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 12:55	1

Lab Sample ID: MB 350-3018/29
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 12:59	1

Lab Sample ID: MB 350-3018/30
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 13:03	1

Lab Sample ID: MB 350-3018/31
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 13:08	1

Lab Sample ID: MB 350-3018/34
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 13:20	1

Lab Sample ID: MB 350-3018/35
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 13:24	1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: LCS 350-3018/36
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.60		ng/L		92	77 - 123

Lab Sample ID: LCS 350-3018/40
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.77		ng/L		95	77 - 123

Lab Sample ID: LCS 350-3018/42
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.59		ng/L		92	77 - 123

Lab Sample ID: LCSD 350-3018/37
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.64		ng/L		93	77 - 123	1	24

Lab Sample ID: LCSD 350-3018/41
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.69		ng/L		94	77 - 123	2	24

Lab Sample ID: LCSD 350-3018/43
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.61		ng/L		92	77 - 123	0	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-3010/1-A
Matrix: Water
Analysis Batch: 3037

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 3010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 14:23	1

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 350-3010/2-A
Matrix: Water
Analysis Batch: 3037

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 3010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 14:27	1

Lab Sample ID: LCS 350-3010/3-A
Matrix: Water
Analysis Batch: 3037

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 3010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	23.6		ug/L		94	85 - 115

Lab Sample ID: LCSD 350-3010/4-A
Matrix: Water
Analysis Batch: 3037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 3010

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	24.0		ug/L		96	85 - 115	1	20

Lab Sample ID: MB 350-3013/1-A
Matrix: Water
Analysis Batch: 3037

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 3013

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 14:44	1

Lab Sample ID: MB 350-3013/2-A
Matrix: Water
Analysis Batch: 3037

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 3013

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 14:48	1

Lab Sample ID: LCS 350-3013/3-A
Matrix: Water
Analysis Batch: 3037

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 3013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	23.8		ug/L		95	85 - 115

Lab Sample ID: LCSD 350-3013/4-A
Matrix: Water
Analysis Batch: 3037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 3013

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	23.6		ug/L		94	85 - 115	1	20

Lab Sample ID: 500-257720-21 MS
Matrix: Water
Analysis Batch: 3037

Client Sample ID: MW-3A_20241001
Prep Type: Total Recoverable
Prep Batch: 3013

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	8.1		25.0	33.6		ug/L		102	70 - 130

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: 500-257720-21 MSD
Matrix: Water
Analysis Batch: 3037

Client Sample ID: MW-3A_20241001
Prep Type: Total Recoverable
Prep Batch: 3013

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	8.1		25.0	34.3		ug/L		105	70 - 130	2	20

Lab Sample ID: 500-257720-1 MS
Matrix: Water
Analysis Batch: 3037

Client Sample ID: MW-35_20240930
Prep Type: Dissolved
Prep Batch: 3010

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	1.8		25.0	26.5		ug/L		99	70 - 130

Lab Sample ID: 500-257720-1 MSD
Matrix: Water
Analysis Batch: 3037

Client Sample ID: MW-35_20240930
Prep Type: Dissolved
Prep Batch: 3010

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	1.8		25.0	26.0		ug/L		97	70 - 130	2	20

Lab Sample ID: 500-257720-23 MS
Matrix: Water
Analysis Batch: 3037

Client Sample ID: MW-3B_20241001
Prep Type: Dissolved
Prep Batch: 3010

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	38		25.0	63.8		ug/L		102	70 - 130

Lab Sample ID: 500-257720-23 MSD
Matrix: Water
Analysis Batch: 3037

Client Sample ID: MW-3B_20241001
Prep Type: Dissolved
Prep Batch: 3010

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	38		25.0	64.4		ug/L		104	70 - 130	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-790852/1-A
Matrix: Water
Analysis Batch: 791285

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 790852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/16/24 08:38	10/17/24 15:25	1
Antimony	<1.3		3.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:25	1
Arsenic	<0.23		1.0	0.23	ug/L		10/16/24 08:38	10/17/24 15:25	1
Barium	<0.73		2.5	0.73	ug/L		10/16/24 08:38	10/17/24 15:25	1
Cadmium	<0.17		0.50	0.17	ug/L		10/16/24 08:38	10/17/24 15:25	1
Calcium	<44		200	44	ug/L		10/16/24 08:38	10/17/24 15:25	1
Chromium	<1.1		5.0	1.1	ug/L		10/16/24 08:38	10/17/24 15:25	1
Cobalt	<0.40		1.0	0.40	ug/L		10/16/24 08:38	10/17/24 15:25	1
Copper	<0.50		2.0	0.50	ug/L		10/16/24 08:38	10/17/24 15:25	1
Iron	<47		100	47	ug/L		10/16/24 08:38	10/17/24 15:25	1
Lead	<0.19		0.50	0.19	ug/L		10/16/24 08:38	10/17/24 15:25	1
Lithium	<2.5		10	2.5	ug/L		10/16/24 08:38	10/17/24 15:25	1
Magnesium	<49		200	49	ug/L		10/16/24 08:38	10/17/24 15:25	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-790852/1-A
Matrix: Water
Analysis Batch: 791285

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 790852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.79		2.5	0.79	ug/L		10/16/24 08:38	10/17/24 15:25	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/16/24 08:38	10/17/24 15:25	1
Potassium	<110		500	110	ug/L		10/16/24 08:38	10/17/24 15:25	1
Silver	<0.12		0.50	0.12	ug/L		10/16/24 08:38	10/17/24 15:25	1
Sodium	<77		200	77	ug/L		10/16/24 08:38	10/17/24 15:25	1
Strontium	<0.64		4.0	0.64	ug/L		10/16/24 08:38	10/17/24 15:25	1
Thallium	<0.57		2.0	0.57	ug/L		10/16/24 08:38	10/17/24 15:25	1
Tin	<1.3		5.0	1.3	ug/L		10/16/24 08:38	10/17/24 15:25	1
Vanadium	<2.2		5.0	2.2	ug/L		10/16/24 08:38	10/17/24 15:25	1
Zinc	<6.9		20	6.9	ug/L		10/16/24 08:38	10/17/24 15:25	1

Lab Sample ID: MB 500-790852/1-A
Matrix: Water
Analysis Batch: 791756

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 790852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.53		1.0	0.53	ug/L		10/16/24 08:38	10/21/24 11:50	1
Boron	14.1	J	50	13	ug/L		10/16/24 08:38	10/21/24 11:50	1
Nickel	<0.63		2.0	0.63	ug/L		10/16/24 08:38	10/21/24 11:50	1
Selenium	<0.98		2.5	0.98	ug/L		10/16/24 08:38	10/21/24 11:50	1

Lab Sample ID: LCS 500-790852/2-A
Matrix: Water
Analysis Batch: 791285

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 790852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2000		ug/L		100	80 - 120
Antimony	500	530		ug/L		106	80 - 120
Arsenic	100	99.3		ug/L		99	80 - 120
Barium	500	511		ug/L		102	80 - 120
Cadmium	50.0	51.5		ug/L		103	80 - 120
Calcium	10000	9000		ug/L		90	80 - 120
Chromium	200	210		ug/L		105	80 - 120
Cobalt	500	535		ug/L		107	80 - 120
Copper	250	259		ug/L		103	80 - 120
Iron	1000	1060		ug/L		106	80 - 120
Lead	100	100		ug/L		100	80 - 120
Lithium	100	111		ug/L		111	80 - 120
Magnesium	10000	10600		ug/L		106	80 - 120
Manganese	500	531		ug/L		106	80 - 120
Molybdenum	1000	1010		ug/L		101	80 - 120
Potassium	10000	10500		ug/L		105	80 - 120
Silver	50.0	52.2		ug/L		104	80 - 120
Sodium	10000	10300		ug/L		103	80 - 120
Strontium	1000	1000		ug/L		100	80 - 120
Thallium	100	98.4		ug/L		98	80 - 120
Tin	1000	1030		ug/L		103	80 - 120
Vanadium	500	515		ug/L		103	80 - 120
Zinc	500	512		ug/L		102	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-790852/2-A
Matrix: Water
Analysis Batch: 791756

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 790852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	50.0	48.3		ug/L		97	80 - 120
Boron	1000	993		ug/L		99	80 - 120
Nickel	500	521		ug/L		104	80 - 120
Selenium	100	97.4		ug/L		97	80 - 120

Lab Sample ID: 500-257720-1 MS
Matrix: Water
Analysis Batch: 791285

Client Sample ID: MW-35_20240930
Prep Type: Total Recoverable
Prep Batch: 790852

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	<25		2000	2030		ug/L		102	75 - 125
Antimony	<1.3		500	549		ug/L		110	75 - 125
Arsenic	1.3		100	104		ug/L		103	75 - 125
Barium	570		500	1120		ug/L		110	75 - 125
Cadmium	<0.17		50.0	53.4		ug/L		107	75 - 125
Calcium	96000		10000	104000	4	ug/L		85	75 - 125
Chromium	1.4	J	200	214		ug/L		106	75 - 125
Cobalt	<0.40		500	534		ug/L		107	75 - 125
Copper	2.3		250	260		ug/L		103	75 - 125
Iron	<47		1000	1090		ug/L		109	75 - 125
Lead	<0.19		100	102		ug/L		102	75 - 125
Lithium	9.1	J	100	119		ug/L		110	75 - 125
Magnesium	13000		10000	23200		ug/L		100	75 - 125
Manganese	390		500	920		ug/L		106	75 - 125
Molybdenum	<2.5		1000	1040		ug/L		104	75 - 125
Potassium	1100		10000	11800		ug/L		107	75 - 125
Silver	<0.12		50.0	53.2		ug/L		106	75 - 125
Sodium	6400		10000	16900		ug/L		105	75 - 125
Strontium	140		1000	1160		ug/L		102	75 - 125
Thallium	<0.57		100	102		ug/L		102	75 - 125
Tin	2.1	J	1000	1070		ug/L		107	75 - 125
Vanadium	3.0	J	500	529		ug/L		105	75 - 125
Zinc	<6.9		500	521		ug/L		104	75 - 125

Lab Sample ID: 500-257720-1 MS
Matrix: Water
Analysis Batch: 791756

Client Sample ID: MW-35_20240930
Prep Type: Total Recoverable
Prep Batch: 790852

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.53		50.0	51.6		ug/L		103	75 - 125
Boron	50	B	1000	1050		ug/L		100	75 - 125
Nickel	<0.63		500	516		ug/L		103	75 - 125
Selenium	<0.98		100	98.8		ug/L		99	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-257720-1 MSD
Matrix: Water
Analysis Batch: 791285

Client Sample ID: MW-35_20240930
Prep Type: Total Recoverable
Prep Batch: 790852

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	<25		2000	2040		ug/L		102	75 - 125	1	20
Antimony	<1.3		500	547		ug/L		109	75 - 125	0	20
Arsenic	1.3		100	103		ug/L		102	75 - 125	1	20
Barium	570		500	1130		ug/L		112	75 - 125	1	20
Cadmium	<0.17		50.0	53.3		ug/L		107	75 - 125	0	20
Calcium	96000		10000	105000	4	ug/L		91	75 - 125	1	20
Chromium	1.4	J	200	215		ug/L		107	75 - 125	0	20
Cobalt	<0.40		500	536		ug/L		107	75 - 125	0	20
Copper	2.3		250	260		ug/L		103	75 - 125	0	20
Iron	<47		1000	1110		ug/L		111	75 - 125	1	20
Lead	<0.19		100	102		ug/L		102	75 - 125	1	20
Lithium	9.1	J	100	122		ug/L		113	75 - 125	2	20
Magnesium	13000		10000	23600		ug/L		103	75 - 125	1	20
Manganese	390		500	915		ug/L		105	75 - 125	0	20
Molybdenum	<2.5		1000	1040		ug/L		104	75 - 125	0	20
Potassium	1100		10000	11700		ug/L		107	75 - 125	0	20
Silver	<0.12		50.0	53.4		ug/L		107	75 - 125	0	20
Sodium	6400		10000	16900		ug/L		106	75 - 125	0	20
Strontium	140		1000	1150		ug/L		101	75 - 125	1	20
Thallium	<0.57		100	101		ug/L		101	75 - 125	0	20
Tin	2.1	J	1000	1070		ug/L		107	75 - 125	0	20
Vanadium	3.0	J	500	533		ug/L		106	75 - 125	1	20
Zinc	<6.9		500	520		ug/L		104	75 - 125	0	20

Lab Sample ID: 500-257720-1 MSD
Matrix: Water
Analysis Batch: 791756

Client Sample ID: MW-35_20240930
Prep Type: Total Recoverable
Prep Batch: 790852

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.53		50.0	51.3		ug/L		103	75 - 125	1	20
Boron	50	B	1000	1090		ug/L		104	75 - 125	4	20
Nickel	<0.63		500	552		ug/L		110	75 - 125	7	20
Selenium	<0.98		100	99.8		ug/L		100	75 - 125	1	20

Lab Sample ID: 500-257720-1 DU
Matrix: Water
Analysis Batch: 791285

Client Sample ID: MW-35_20240930
Prep Type: Total Recoverable
Prep Batch: 790852

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	<25			<25		ug/L				NC	20
Antimony	<1.3			<1.3		ug/L				NC	20
Arsenic	1.3			1.32		ug/L				1	20
Barium	570			564		ug/L				0.3	20
Cadmium	<0.17			<0.17		ug/L				NC	20
Calcium	96000			95100		ug/L				0.9	20
Chromium	1.4	J		1.30	J	ug/L				7	20
Cobalt	<0.40			<0.40		ug/L				NC	20
Copper	2.3			2.36		ug/L				4	20
Iron	<47			<47		ug/L				NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-257720-1 DU
Matrix: Water
Analysis Batch: 791285

Client Sample ID: MW-35_20240930
Prep Type: Total Recoverable
Prep Batch: 790852

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	<0.19		<0.19		ug/L		NC	20
Lithium	9.1	J	8.72	J	ug/L		4	20
Magnesium	13000		13200		ug/L		0.6	20
Manganese	390		386		ug/L		0.8	20
Molybdenum	<2.5		<2.5		ug/L		NC	20
Potassium	1100		1080		ug/L		0	20
Silver	<0.12		<0.12		ug/L		NC	20
Sodium	6400		6270		ug/L		1	20
Strontium	140		137		ug/L		0.2	20
Thallium	<0.57		<0.57		ug/L		NC	20
Tin	2.1	J	<1.3		ug/L		NC	20
Vanadium	3.0	J	2.90	J	ug/L		2	20
Zinc	<6.9		<6.9		ug/L		NC	20

Lab Sample ID: 500-257720-1 DU
Matrix: Water
Analysis Batch: 791756

Client Sample ID: MW-35_20240930
Prep Type: Total Recoverable
Prep Batch: 790852

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.53		<0.53		ug/L		NC	20
Boron	50	B	43.4	J	ug/L		15	20
Nickel	<0.63		<0.63		ug/L		NC	20
Selenium	<0.98		<0.98		ug/L		NC	20

Lab Sample ID: MB 500-791079/1-A
Matrix: Water
Analysis Batch: 791837

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 791079

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		10/17/24 09:10	10/22/24 15:11	1
Chromium	<1.1		5.0	1.1	ug/L		10/17/24 09:10	10/22/24 15:11	1
Cobalt	<0.40		1.0	0.40	ug/L		10/17/24 09:10	10/22/24 15:11	1
Iron	<47		100	47	ug/L		10/17/24 09:10	10/22/24 15:11	1
Lead	<0.19		0.50	0.19	ug/L		10/17/24 09:10	10/22/24 15:11	1
Nickel	<0.63		2.0	0.63	ug/L		10/17/24 09:10	10/22/24 15:11	1
Silver	<0.12		0.50	0.12	ug/L		10/17/24 09:10	10/22/24 15:11	1
Thallium	<0.57		2.0	0.57	ug/L		10/17/24 09:10	10/22/24 15:11	1
Tin	<1.3		5.0	1.3	ug/L		10/17/24 09:10	10/22/24 15:11	1
Vanadium	<2.2		5.0	2.2	ug/L		10/17/24 09:10	10/22/24 15:11	1
Zinc	<6.9		20	6.9	ug/L		10/17/24 09:10	10/22/24 15:11	1

Lab Sample ID: MB 500-791079/1-A
Matrix: Water
Analysis Batch: 791955

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 791079

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/17/24 09:10	10/22/24 17:53	1
Antimony	1.33	J	3.0	1.3	ug/L		10/17/24 09:10	10/22/24 17:53	1
Barium	<0.73		2.5	0.73	ug/L		10/17/24 09:10	10/22/24 17:53	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-791079/1-A
Matrix: Water
Analysis Batch: 791955

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 791079

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.53		1.0	0.53	ug/L		10/17/24 09:10	10/22/24 17:53	1
Boron	21.3	J	50	13	ug/L		10/17/24 09:10	10/22/24 17:53	1
Cadmium	<0.17		0.50	0.17	ug/L		10/17/24 09:10	10/22/24 17:53	1
Calcium	<44		200	44	ug/L		10/17/24 09:10	10/22/24 17:53	1
Copper	<0.50		2.0	0.50	ug/L		10/17/24 09:10	10/22/24 17:53	1
Lithium	<2.5		10	2.5	ug/L		10/17/24 09:10	10/22/24 17:53	1
Magnesium	<49		200	49	ug/L		10/17/24 09:10	10/22/24 17:53	1
Manganese	<0.79		2.5	0.79	ug/L		10/17/24 09:10	10/22/24 17:53	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/17/24 09:10	10/22/24 17:53	1
Potassium	<110		500	110	ug/L		10/17/24 09:10	10/22/24 17:53	1
Selenium	<0.98		2.5	0.98	ug/L		10/17/24 09:10	10/22/24 17:53	1
Sodium	<77		200	77	ug/L		10/17/24 09:10	10/22/24 17:53	1
Strontium	<0.64		4.0	0.64	ug/L		10/17/24 09:10	10/22/24 17:53	1

Lab Sample ID: LCS 500-791079/2-A
Matrix: Water
Analysis Batch: 791837

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 791079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	94.3		ug/L		94	80 - 120
Chromium	200	195		ug/L		98	80 - 120
Cobalt	500	529		ug/L		106	80 - 120
Iron	1000	1030		ug/L		103	80 - 120
Lead	100	94.8		ug/L		95	80 - 120
Nickel	500	494		ug/L		99	80 - 120
Silver	50.0	47.8		ug/L		96	80 - 120
Thallium	100	97.4		ug/L		97	80 - 120
Tin	1000	994		ug/L		99	80 - 120
Vanadium	500	494		ug/L		99	80 - 120
Zinc	500	495		ug/L		99	80 - 120

Lab Sample ID: LCS 500-791079/2-A
Matrix: Water
Analysis Batch: 791955

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 791079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1990		ug/L		99	80 - 120
Antimony	500	534		ug/L		107	80 - 120
Barium	500	526		ug/L		105	80 - 120
Beryllium	50.0	52.2		ug/L		104	80 - 120
Boron	1000	1040		ug/L		104	80 - 120
Cadmium	50.0	52.9		ug/L		106	80 - 120
Calcium	10000	8750		ug/L		88	80 - 120
Copper	250	266		ug/L		106	80 - 120
Lithium	100	104		ug/L		104	80 - 120
Magnesium	10000	10600		ug/L		106	80 - 120
Manganese	500	536		ug/L		107	80 - 120
Molybdenum	1000	1030		ug/L		103	80 - 120
Potassium	10000	10500		ug/L		105	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-791079/2-A
Matrix: Water
Analysis Batch: 791955

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 791079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	100	103		ug/L		103	80 - 120
Sodium	10000	10300		ug/L		103	80 - 120
Strontium	1000	1020		ug/L		102	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-788725/3
Matrix: Water
Analysis Batch: 788725

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			10/02/24 11:22	1
Chloride	0.223	J	1.0	0.12	mg/L			10/02/24 11:22	1
Fluoride	<0.19		1.0	0.19	mg/L			10/02/24 11:22	1
Sulfate	<0.21		1.0	0.21	mg/L			10/02/24 11:22	1

Lab Sample ID: LCS 500-788725/4
Matrix: Water
Analysis Batch: 788725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.3		mg/L		97	90 - 110
Chloride	20.0	19.2		mg/L		96	90 - 110
Fluoride	20.0	21.0		mg/L		105	90 - 110
Sulfate	20.0	20.3		mg/L		102	90 - 110

Lab Sample ID: 500-257720-15 MS
Matrix: Water
Analysis Batch: 788725

Client Sample ID: MW-5SB_20240930
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	5.2		10.0	14.8		mg/L		96	80 - 120
Fluoride	1.4		10.0	11.4		mg/L		101	80 - 120
Sulfate	37		10.0	46.0		mg/L		85	80 - 120

Lab Sample ID: 500-257720-15 MSD
Matrix: Water
Analysis Batch: 788725

Client Sample ID: MW-5SB_20240930
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	5.2		10.0	15.0		mg/L		98	80 - 120	1	20
Fluoride	1.4		10.0	11.6		mg/L		103	80 - 120	2	20
Sulfate	37		10.0	45.8		mg/L		84	80 - 120	0	20

Lab Sample ID: MB 500-788726/3
Matrix: Water
Analysis Batch: 788726

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			10/02/24 11:22	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-788726/3
Matrix: Water
Analysis Batch: 788726

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	<0.070		1.0	0.070	mg/L			10/02/24 11:22	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			10/02/24 11:22	1

Lab Sample ID: LCS 500-788726/4
Matrix: Water
Analysis Batch: 788726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	18.9		mg/L		95	90 - 110
Nitrite as N	20.0	20.3		mg/L		102	90 - 110
Nitrate Nitrite as N	40.0	39.2		mg/L		98	90 - 110

Lab Sample ID: 500-257720-15 MS
Matrix: Water
Analysis Batch: 788726

Client Sample ID: MW-5SB_20240930
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	<0.043		10.0	9.02		mg/L		90	80 - 120
Nitrite as N	<0.070		10.0	10.4		mg/L		104	80 - 120
Nitrate Nitrite as N	<0.070		20.0	19.4		mg/L		97	80 - 120

Lab Sample ID: 500-257720-15 MSD
Matrix: Water
Analysis Batch: 788726

Client Sample ID: MW-5SB_20240930
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.043		10.0	9.21		mg/L		92	80 - 120	2	20
Nitrite as N	<0.070		10.0	10.6		mg/L		106	80 - 120	2	20
Nitrate Nitrite as N	<0.070		20.0	19.8		mg/L		99	80 - 120	2	20

Lab Sample ID: MB 500-788852/3
Matrix: Water
Analysis Batch: 788852

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			10/03/24 08:42	1
Fluoride	<0.19		1.0	0.19	mg/L			10/03/24 08:42	1
Sulfate	<0.21		1.0	0.21	mg/L			10/03/24 08:42	1

Lab Sample ID: LCS 500-788852/4
Matrix: Water
Analysis Batch: 788852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	18.6		mg/L		93	90 - 110
Fluoride	20.0	20.3		mg/L		102	90 - 110
Sulfate	20.0	20.2		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-257720-25 MS
Matrix: Water
Analysis Batch: 788852

Client Sample ID: MW-43SB_20241001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	11	F1 F2	10.0	12.0	F1	mg/L		5	80 - 120
Fluoride	9.6	F1 F2	10.0	9.84	F1	mg/L		2	80 - 120
Sulfate	18	F1 F2	10.0	18.1	F1	mg/L		3	80 - 120

Lab Sample ID: 500-257720-25 MSD
Matrix: Water
Analysis Batch: 788852

Client Sample ID: MW-43SB_20241001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	11	F1 F2	10.0	16.0	F1 F2	mg/L		46	80 - 120	29	20
Fluoride	9.6	F1 F2	10.0	0.609	J F1 F2	mg/L		-90	80 - 120	177	20
Sulfate	18	F1 F2	10.0	6.18	F1 F2	mg/L		-116	80 - 120	98	20

Lab Sample ID: MB 500-788853/3
Matrix: Water
Analysis Batch: 788853

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			10/03/24 08:42	1
Nitrite as N	<0.070		1.0	0.070	mg/L			10/03/24 08:42	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			10/03/24 08:42	1

Lab Sample ID: LCS 500-788853/4
Matrix: Water
Analysis Batch: 788853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	18.8		mg/L		94	90 - 110
Nitrite as N	20.0	20.3		mg/L		101	90 - 110
Nitrate Nitrite as N	40.0	39.1		mg/L		98	90 - 110

Lab Sample ID: 500-257720-25 MS
Matrix: Water
Analysis Batch: 788853

Client Sample ID: MW-43SB_20241001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	8.6	F1 H3	10.0	9.24	F1	mg/L		7	80 - 120
Nitrite as N	10	F1 H3	10.0	10.5	F1	mg/L		4	80 - 120
Nitrate Nitrite as N	19	F1 H3	20.0	19.7	F1	mg/L		6	80 - 120

Lab Sample ID: 500-257720-25 MSD
Matrix: Water
Analysis Batch: 788853

Client Sample ID: MW-43SB_20241001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	8.6	F1 H3	10.0	<0.043	F1	mg/L		0	80 - 120	NC	20
Nitrite as N	10	F1 H3	10.0	<0.070	F1	mg/L		0	80 - 120	NC	20
Nitrate Nitrite as N	19	F1 H3	20.0	<0.070	F1	mg/L		0	80 - 120	NC	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-790715/72
Matrix: Water
Analysis Batch: 790715

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.311	J	1.0	0.12	mg/L			10/16/24 06:07	1
Sulfate	<0.21		1.0	0.21	mg/L			10/16/24 06:07	1

Lab Sample ID: LCS 500-790715/75
Matrix: Water
Analysis Batch: 790715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.6		mg/L		98	90 - 110
Sulfate	20.0	20.7		mg/L		103	90 - 110

Lab Sample ID: 500-257720-5 MS
Matrix: Water
Analysis Batch: 790715

Client Sample ID: NB2-1_20240930
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	300	B	200	517		mg/L		110	80 - 120

Lab Sample ID: 500-257720-5 MSD
Matrix: Water
Analysis Batch: 790715

Client Sample ID: NB2-1_20240930
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	300	B	200	512		mg/L		107	80 - 120	1	20

Lab Sample ID: MB 500-790728/56
Matrix: Water
Analysis Batch: 790728

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			10/16/24 05:12	1

Lab Sample ID: LCS 500-790728/57
Matrix: Water
Analysis Batch: 790728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.3		mg/L		97	90 - 110

Lab Sample ID: 500-257720-19 MS
Matrix: Water
Analysis Batch: 790728

Client Sample ID: MW-2B_20241001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	68		50.0	121		mg/L		105	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-257720-19 MSD
Matrix: Water
Analysis Batch: 790728

Client Sample ID: MW-2B_20241001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	68		50.0	120		mg/L		104	80 - 120	0	20

Lab Sample ID: MB 500-791383/19
Matrix: Water
Analysis Batch: 791383

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.163	J	1.0	0.12	mg/L			10/18/24 18:14	1

Lab Sample ID: LCS 500-791383/20
Matrix: Water
Analysis Batch: 791383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.9		mg/L		99	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-789241/1-A
Matrix: Water
Analysis Batch: 789387

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 789241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00800		0.0050	0.0036	mg/L		10/06/24 11:29	10/07/24 11:23	1

Lab Sample ID: LCS 500-789241/2-A
Matrix: Water
Analysis Batch: 789387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 789241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.101		mg/L		101	90 - 110

Lab Sample ID: 500-257720-23 MS
Matrix: Water
Analysis Batch: 789387

Client Sample ID: MW-3B_20241001
Prep Type: Total/NA
Prep Batch: 789241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.0036		0.100	0.0950		mg/L		95	90 - 110

Lab Sample ID: 500-257720-23 MSD
Matrix: Water
Analysis Batch: 789387

Client Sample ID: MW-3B_20241001
Prep Type: Total/NA
Prep Batch: 789241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.0036		0.100	0.0980		mg/L		98	90 - 110	3	20

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: MB 500-789775/1-A
Matrix: Water
Analysis Batch: 790015

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 789775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		10/09/24 10:15	10/10/24 12:46	1

Lab Sample ID: LCS 500-789775/2-A
Matrix: Water
Analysis Batch: 790015

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 789775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0900		mg/L		90	90 - 110

Lab Sample ID: MB 500-792684/1-A
Matrix: Water
Analysis Batch: 792690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		10/28/24 11:51	10/28/24 14:23	1

Lab Sample ID: LCS 500-792684/2-A
Matrix: Water
Analysis Batch: 792690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0897		mg/L		90	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-790879/1-A
Matrix: Water
Analysis Batch: 792058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 790879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		10/16/24 12:27	10/23/24 15:53	1

Lab Sample ID: LCS 500-790879/2-A
Matrix: Water
Analysis Batch: 792058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 790879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.91		mg/L		95	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-789343/1-A
Matrix: Water
Analysis Batch: 789847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 789343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:21	1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCS 500-789343/2-A
Matrix: Water
Analysis Batch: 789847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 789343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.928		mg/L		93	88 - 123

Lab Sample ID: MB 500-791606/1-A
Matrix: Water
Analysis Batch: 792014

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 791606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:12	1

Lab Sample ID: LCS 500-791606/2-A
Matrix: Water
Analysis Batch: 792014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 791606

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.932		mg/L		93	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-790471/28
Matrix: Water
Analysis Batch: 790471

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			10/11/24 14:40	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/11/24 14:40	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/11/24 14:40	1

Lab Sample ID: LCS 500-790471/29
Matrix: Water
Analysis Batch: 790471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	105		mg/L		105	95 - 121

Lab Sample ID: MB 500-790650/28
Matrix: Water
Analysis Batch: 790650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			10/14/24 16:53	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/14/24 16:53	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/14/24 16:53	1

Lab Sample ID: MB 500-790650/53
Matrix: Water
Analysis Batch: 790650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			10/14/24 21:39	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/14/24 21:39	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 500-790650/53
Matrix: Water
Analysis Batch: 790650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/14/24 21:39	1

Lab Sample ID: LCS 500-790650/29
Matrix: Water
Analysis Batch: 790650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			100	106		mg/L		106	95 - 121		

Lab Sample ID: LCS 500-790650/4
Matrix: Water
Analysis Batch: 790650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			100	107		mg/L		107	95 - 121		

Method: SM 2520B - Salinity

Lab Sample ID: 500-257720-5 DU
Matrix: Water
Analysis Batch: 792565

Client Sample ID: NB2-1_20240930
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Salinity	1.3			1.29		psu				0	

Lab Sample ID: 500-257720-19 DU
Matrix: Water
Analysis Batch: 792565

Client Sample ID: MW-2B_20241001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Salinity	0.40			0.403		psu				0	

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-788818/1
Matrix: Water
Analysis Batch: 788818

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			10/03/24 02:43	1

Lab Sample ID: LCS 500-788818/2
Matrix: Water
Analysis Batch: 788818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			250	248		mg/L		99	80 - 120		

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 500-788836/1
Matrix: Water
Analysis Batch: 788836

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			10/03/24 04:11	1

Lab Sample ID: LCS 500-788836/2
Matrix: Water
Analysis Batch: 788836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	246		mg/L		98	80 - 120

Lab Sample ID: MB 500-789273/1
Matrix: Water
Analysis Batch: 789273

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			10/06/24 20:18	1

Lab Sample ID: LCS 500-789273/2
Matrix: Water
Analysis Batch: 789273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	242		mg/L		97	80 - 120

Lab Sample ID: 500-257720-17 MS
Matrix: Water
Analysis Batch: 789273

Client Sample ID: MW-2A_20241001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	730		250	978		mg/L		99	75 - 125

Lab Sample ID: 500-257720-17 DU
Matrix: Water
Analysis Batch: 789273

Client Sample ID: MW-2A_20241001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	730		738		mg/L		1	5

Lab Sample ID: 500-257720-19 DU
Matrix: Water
Analysis Batch: 789273

Client Sample ID: MW-2B_20241001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	700		700		mg/L		0.6	5

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-789176/1
Matrix: Water
Analysis Batch: 789176

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			10/04/24 21:53	1

Lab Sample ID: LCS 500-789176/2
Matrix: Water
Analysis Batch: 789176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	186		mg/L		93	80 - 120

Lab Sample ID: 500-257720-3 MS
Matrix: Water
Analysis Batch: 789176

Client Sample ID: MW-36_20240930
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	4.2	J	100	92.0		mg/L		88	75 - 125

Lab Sample ID: 500-257720-1 DU
Matrix: Water
Analysis Batch: 789176

Client Sample ID: MW-35_20240930
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	<1.9		<1.9		mg/L		NC	5

Lab Sample ID: MB 500-789260/1
Matrix: Water
Analysis Batch: 789260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			10/06/24 19:21	1

Lab Sample ID: LCS 500-789260/2
Matrix: Water
Analysis Batch: 789260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	193		mg/L		96	80 - 120

Lab Sample ID: 500-257720-9 MS
Matrix: Water
Analysis Batch: 789260

Client Sample ID: MW-1AR_20240930
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	5.0		100	120		mg/L		115	75 - 125

Lab Sample ID: 500-257720-11 DU
Matrix: Water
Analysis Batch: 789260

Client Sample ID: MW-1BR_20240930
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	<1.9		<1.9		mg/L		NC	5

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: 500-257720-13 DU
Matrix: Water
Analysis Batch: 789260

Client Sample ID: MW-10_20240930
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	11			11.0		mg/L				2	5

Lab Sample ID: MB 500-789648/1
Matrix: Water
Analysis Batch: 789648

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			10/08/24 16:26	1

Lab Sample ID: LCS 500-789648/2
Matrix: Water
Analysis Batch: 789648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			200	173		mg/L		86	80 - 120		

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-788817/1
Matrix: Water
Analysis Batch: 788817

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			10/02/24 23:30	1

Lab Sample ID: LCS 500-788817/2
Matrix: Water
Analysis Batch: 788817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			3.76	3.47		mg/L		92	85 - 115		

Lab Sample ID: MB 500-789177/1
Matrix: Water
Analysis Batch: 789177

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			10/04/24 23:03	1

Lab Sample ID: LCS 500-789177/2
Matrix: Water
Analysis Batch: 789177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			3.76	3.71		mg/L		99	85 - 115		

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: MB 500-789278/1
Matrix: Water
Analysis Batch: 789278

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			10/07/24 00:37	1

Lab Sample ID: LCS 500-789278/2
Matrix: Water
Analysis Batch: 789278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.76	3.86		mg/L		103	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-790870/7
Matrix: Water
Analysis Batch: 790870

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			10/15/24 14:14	1

Lab Sample ID: LCS 500-790870/8
Matrix: Water
Analysis Batch: 790870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Lab Sample ID: MB 500-791489/7
Matrix: Water
Analysis Batch: 791489

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			10/18/24 09:21	1

Lab Sample ID: LCS 500-791489/8
Matrix: Water
Analysis Batch: 791489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	9.44		mg/L		94	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-790642/7
Matrix: Water
Analysis Batch: 790642

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			10/15/24 07:59	1

Method: SM 5310C - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: LCS 500-790642/8
Matrix: Water
Analysis Batch: 790642

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Dissolved Organic Carbon			10.0	10.0		mg/L		100	86 - 116		

Lab Sample ID: 500-257720-1 MS
Matrix: Water
Analysis Batch: 790642

Client Sample ID: MW-35_20240930
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Dissolved Organic Carbon	1.7		10.0	12.2		mg/L		105	75 - 125		

Lab Sample ID: 500-257720-1 MSD
Matrix: Water
Analysis Batch: 790642

Client Sample ID: MW-35_20240930
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dissolved Organic Carbon	1.7		10.0	12.2		mg/L		105	75 - 125	0	20

Lab Sample ID: MB 500-791496/31
Matrix: Water
Analysis Batch: 791496

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			10/20/24 07:44	1

Lab Sample ID: 500-257720-17 MS
Matrix: Water
Analysis Batch: 791496

Client Sample ID: MW-2A_20241001
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Dissolved Organic Carbon	9.7		10.0	19.9		mg/L		103	75 - 125		

Lab Sample ID: 500-257720-17 MSD
Matrix: Water
Analysis Batch: 791496

Client Sample ID: MW-2A_20241001
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dissolved Organic Carbon	9.7		10.0	19.9		mg/L		102	75 - 125	0	20

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-35_20240930

Date Collected: 09/30/24 09:45
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Dissolved	Analysis	1630		1	3059	CL	EET SSM	10/15/24 15:12
Total/NA	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Total/NA	Analysis	1630		1	3059	CL	EET SSM	10/15/24 15:02
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 17:54
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 17:50
Dissolved	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 16:16
Total Recoverable	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 18:47
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 12:57
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 16:07
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 11:59
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 15:30
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	SM 2340B		1	791354	DAJ	EET CHI	10/18/24 11:51
Total/NA	Analysis	300.0		1	788725	MM	EET CHI	10/02/24 14:39
Total/NA	Analysis	300.0		1	788726	W1T	EET CHI	10/02/24 14:39
Total/NA	Prep	Distill/CN			789241	AC	EET CHI	10/06/24 11:29 - 10/06/24 11:59 [1]
Total/NA	Analysis	335.4		1	789387	AC	EET CHI	10/07/24 11:31
Total/NA	Prep	Distill/Ammonia			790879	EB	EET CHI	10/16/24 12:27 - 10/16/24 13:27 [1]
Total/NA	Analysis	350.1		1	792058	KF	EET CHI	10/23/24 15:55
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:26
Total/NA	Analysis	SM 2320B		1	790471	SO	EET CHI	10/11/24 14:54
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	788818	CLB	EET CHI	10/03/24 03:26
Total/NA	Analysis	SM 2540D		1	789176	CLB	EET CHI	10/04/24 22:24 - 10/04/24 22:27 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788817	CLB	EET CHI	10/03/24 00:09 - 10/03/24 00:12 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	790870	TR	EET CHI	10/15/24 15:10

Client Sample ID: MW-35_20240930_FBLL

Date Collected: 09/30/24 09:45
Date Received: 10/02/24 10:00

Lab Sample ID: 500-257720-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 17:58

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-36_20240930

Lab Sample ID: 500-257720-3

Date Collected: 09/30/24 13:30

Matrix: Water

Date Received: 10/02/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Dissolved	Analysis	1630		1	3059	CL	EET SSM	10/15/24 15:32
Total/NA	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Total/NA	Analysis	1630		1	3059	CL	EET SSM	10/15/24 15:22
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 18:06
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 18:02
Dissolved	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 18:01
Total Recoverable	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 18:51
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 13:00
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 16:09
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 12:17
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 15:41
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	SM 2340B		1	791354	DAJ	EET CHI	10/18/24 11:51
Total/NA	Analysis	300.0		1	788725	MM	EET CHI	10/02/24 12:07
Total/NA	Analysis	300.0		1	788726	W1T	EET CHI	10/02/24 12:07
Total/NA	Prep	Distill/CN			789241	AC	EET CHI	10/06/24 11:29 - 10/06/24 11:59 [1]
Total/NA	Analysis	335.4		1	789387	AC	EET CHI	10/07/24 11:32
Total/NA	Prep	Distill/Ammonia			790879	EB	EET CHI	10/16/24 12:27 - 10/16/24 13:27 [1]
Total/NA	Analysis	350.1		1	792058	KF	EET CHI	10/23/24 15:55
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:27
Total/NA	Analysis	SM 2320B		1	790471	SO	EET CHI	10/11/24 15:06
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	788818	CLB	EET CHI	10/03/24 03:29
Total/NA	Analysis	SM 2540D		1	789176	CLB	EET CHI	10/04/24 22:29 - 10/04/24 22:31 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788817	CLB	EET CHI	10/03/24 00:12 - 10/03/24 00:15 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	790870	TR	EET CHI	10/15/24 15:38

Client Sample ID: MW-36_20240930_FBLL

Lab Sample ID: 500-257720-4

Date Collected: 09/30/24 13:30

Matrix: Water

Date Received: 10/02/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 18:19

Client Sample ID: NB2-1_20240930

Lab Sample ID: 500-257720-5

Date Collected: 09/30/24 15:00

Matrix: Water

Date Received: 10/02/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Dissolved	Analysis	1630		1	3059	CL	EET SSM	10/15/24 15:53
Total/NA	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Total/NA	Analysis	1630		1	3059	CL	EET SSM	10/15/24 15:43
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 18:27
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 18:23
Dissolved	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 18:05
Total Recoverable	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 18:54
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 13:11
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 16:11
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 12:21
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 15:44
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	SM 2340B		1	791354	DAJ	EET CHI	10/18/24 11:51
Total/NA	Analysis	300.0		1	788725	MM	EET CHI	10/02/24 12:22
Total/NA	Analysis	300.0		1	788726	W1T	EET CHI	10/02/24 12:22
Total/NA	Analysis	300.0		20	790715	MM	EET CHI	10/16/24 07:08
Total/NA	Prep	Distill/CN			789241	AC	EET CHI	10/06/24 11:29 - 10/06/24 11:59 [1]
Total/NA	Analysis	335.4		1	789387	AC	EET CHI	10/07/24 11:34
Total/NA	Prep	Distill/Ammonia			790879	EB	EET CHI	10/16/24 12:27 - 10/16/24 13:27 [1]
Total/NA	Analysis	350.1		1	792058	KF	EET CHI	10/23/24 15:55
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:27
Total/NA	Analysis	SM 2320B		1	790471	SO	EET CHI	10/11/24 15:17
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	788818	CLB	EET CHI	10/03/24 03:32
Total/NA	Analysis	SM 2540D		1	789176	CLB	EET CHI	10/04/24 22:34 - 10/04/24 22:36 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788817	CLB	EET CHI	10/03/24 00:15 - 10/03/24 00:19 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	790870	TR	EET CHI	10/15/24 16:06

Client Sample ID: NB2-1_20240930_FBLL

Lab Sample ID: 500-257720-6

Date Collected: 09/30/24 15:00

Matrix: Water

Date Received: 10/02/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 18:31

Client Sample ID: NB2-3_20240930

Lab Sample ID: 500-257720-7

Date Collected: 09/30/24 16:45

Matrix: Water

Date Received: 10/02/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Dissolved	Analysis	1630		1	3059	CL	EET SSM	10/15/24 16:03
Total/NA	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Total/NA	Analysis	1630		1	3059	CL	EET SSM	10/15/24 13:40
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 18:40
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 18:35
Dissolved	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 18:08
Total Recoverable	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 18:58
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 13:15
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 16:13
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 12:24
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 15:46
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	SM 2340B		1	791354	DAJ	EET CHI	10/18/24 11:51
Total/NA	Analysis	300.0		1	788725	MM	EET CHI	10/02/24 12:53
Total/NA	Analysis	300.0		1	788726	W1T	EET CHI	10/02/24 12:53
Total/NA	Analysis	300.0		10	790715	MM	EET CHI	10/16/24 07:53
Total/NA	Prep	Distill/CN			789241	AC	EET CHI	10/06/24 11:29 - 10/06/24 11:59 [1]
Total/NA	Analysis	335.4		1	789387	AC	EET CHI	10/07/24 11:35
Total/NA	Prep	Distill/Ammonia			790879	EB	EET CHI	10/16/24 12:27 - 10/16/24 13:27 [1]
Total/NA	Analysis	350.1		1	792058	KF	EET CHI	10/23/24 15:56
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:27
Total/NA	Analysis	SM 2320B		1	790471	SO	EET CHI	10/11/24 15:30
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	788818	CLB	EET CHI	10/03/24 03:34
Total/NA	Analysis	SM 2540D		1	789176	CLB	EET CHI	10/04/24 22:36 - 10/04/24 22:38 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788817	CLB	EET CHI	10/03/24 00:19 - 10/03/24 00:22 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	790870	TR	EET CHI	10/15/24 16:34

Client Sample ID: NB2-3_20240930_FBLL

Lab Sample ID: 500-257720-8

Date Collected: 09/30/24 16:45

Matrix: Water

Date Received: 10/02/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 18:44

Client Sample ID: MW-1AR_20240930

Lab Sample ID: 500-257720-9

Date Collected: 09/30/24 10:50

Matrix: Water

Date Received: 10/02/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Dissolved	Analysis	1630		1	3059	CL	EET SSM	10/15/24 17:45
Total/NA	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Total/NA	Analysis	1630		1	3059	CL	EET SSM	10/15/24 17:35
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 18:52
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 18:48
Dissolved	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 18:12
Total Recoverable	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 19:01
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 13:18
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 16:20
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 12:35
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 15:53
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	SM 2340B		1	791354	DAJ	EET CHI	10/18/24 11:51
Total/NA	Analysis	300.0		1	788725	MM	EET CHI	10/02/24 14:54
Total/NA	Analysis	300.0		1	788726	W1T	EET CHI	10/02/24 14:54
Total/NA	Analysis	300.0		5	790715	MM	EET CHI	10/16/24 08:08
Total/NA	Prep	Distill/CN			789775	AC	EET CHI	10/09/24 10:15 - 10/09/24 10:45 [1]
Total/NA	Analysis	335.4		1	790015	AC	EET CHI	10/10/24 12:50
Total/NA	Prep	Distill/Ammonia			790879	EB	EET CHI	10/16/24 12:27 - 10/16/24 13:27 [1]
Total/NA	Analysis	350.1		1	792058	KF	EET CHI	10/23/24 15:56
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:28
Total/NA	Analysis	SM 2320B		1	790471	SO	EET CHI	10/11/24 15:43
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	788818	CLB	EET CHI	10/03/24 03:37
Total/NA	Analysis	SM 2540D		1	789260	CLB	EET CHI	10/06/24 19:26 - 10/06/24 19:29 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788817	CLB	EET CHI	10/03/24 00:22 - 10/03/24 00:25 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	790870	TR	EET CHI	10/15/24 17:02

Client Sample ID: MW-1AR_20240930_FBLL

Lab Sample ID: 500-257720-10

Date Collected: 09/30/24 10:50

Matrix: Water

Date Received: 10/02/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 18:56

Client Sample ID: MW-1BR_20240930

Lab Sample ID: 500-257720-11

Date Collected: 09/30/24 12:20

Matrix: Water

Date Received: 10/02/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Dissolved	Analysis	1630		1	3059	CL	EET SSM	10/15/24 17:04
Total/NA	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Total/NA	Analysis	1630		1	3059	CL	EET SSM	10/15/24 16:54
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 19:13
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 19:09
Dissolved	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 18:15
Total Recoverable	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 19:05
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 13:22
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 16:22
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 12:39
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 15:55
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	SM 2340B		1	791354	DAJ	EET CHI	10/18/24 11:51
Total/NA	Analysis	300.0		1	788725	MM	EET CHI	10/02/24 11:52
Total/NA	Analysis	300.0		1	788726	W1T	EET CHI	10/02/24 11:52
Total/NA	Analysis	300.0		10	790715	MM	EET CHI	10/16/24 08:24
Total/NA	Prep	Distill/CN			789241	AC	EET CHI	10/06/24 11:29 - 10/06/24 11:59 [1]
Total/NA	Analysis	335.4		1	789387	AC	EET CHI	10/07/24 11:36
Total/NA	Prep	Distill/Ammonia			790879	EB	EET CHI	10/16/24 12:27 - 10/16/24 13:27 [1]
Total/NA	Analysis	350.1		1	792058	KF	EET CHI	10/23/24 15:57
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:28
Total/NA	Analysis	SM 2320B		1	790471	SO	EET CHI	10/11/24 15:57
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	788818	CLB	EET CHI	10/03/24 03:39
Total/NA	Analysis	SM 2540D		1	789260	CLB	EET CHI	10/06/24 19:31 - 10/06/24 19:34 [1]
Total/NA	Analysis	SM 4500 S2 F		1	788817	CLB	EET CHI	10/03/24 00:25 - 10/03/24 00:29 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	790870	TR	EET CHI	10/15/24 17:30

Client Sample ID: MW-1BR_20240930_FBLL

Lab Sample ID: 500-257720-12

Date Collected: 09/30/24 12:20

Matrix: Water

Date Received: 10/02/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 19:17

Client Sample ID: MW-10_20240930

Lab Sample ID: 500-257720-13

Date Collected: 09/30/24 15:00

Matrix: Water

Date Received: 10/02/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Dissolved	Analysis	1630		1	3059	CL	EET SSM	10/15/24 17:25
Total/NA	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Total/NA	Analysis	1630		1	3059	CL	EET SSM	10/15/24 17:14
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 19:21
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 16:06
Dissolved	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 18:19
Total Recoverable	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 19:08
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 13:26
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 16:25
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 12:42
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 15:57
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	SM 2340B		1	791354	DAJ	EET CHI	10/18/24 11:51
Total/NA	Analysis	300.0		1	788725	MM	EET CHI	10/02/24 12:38
Total/NA	Analysis	300.0		1	788726	W1T	EET CHI	10/02/24 12:38
Total/NA	Analysis	300.0		20	790715	MM	EET CHI	10/16/24 08:39
Total/NA	Prep	Distill/CN			789775	AC	EET CHI	10/09/24 10:15 - 10/09/24 10:45 [1]
Total/NA	Analysis	335.4		1	790015	AC	EET CHI	10/10/24 12:50
Total/NA	Prep	Distill/Ammonia			790879	EB	EET CHI	10/16/24 12:27 - 10/16/24 13:27 [1]
Total/NA	Analysis	350.1		1	792058	KF	EET CHI	10/23/24 15:57
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:29
Total/NA	Analysis	SM 2320B		1	790471	SO	EET CHI	10/11/24 16:08
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	788818	CLB	EET CHI	10/03/24 03:42
Total/NA	Analysis	SM 2540D		1	789260	CLB	EET CHI	10/06/24 19:37 - 10/06/24 19:40 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789177	CLB	EET CHI	10/05/24 00:03 - 10/05/24 00:18 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	790870	TR	EET CHI	10/15/24 17:58

Client Sample ID: MW-10_20240930_FBLL

Lab Sample ID: 500-257720-14

Date Collected: 09/30/24 15:00

Matrix: Water

Date Received: 10/02/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 19:25

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-5SB_20240930

Lab Sample ID: 500-257720-15

Date Collected: 09/30/24 18:00

Matrix: Water

Date Received: 10/02/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Dissolved	Analysis	1630		1	3059	CL	EET SSM	10/15/24 16:23
Total/NA	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Total/NA	Analysis	1630		1	3059	CL	EET SSM	10/15/24 16:13
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 19:33
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 19:29
Dissolved	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 18:22
Total Recoverable	Prep	1638			3013	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 21:47
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 13:29
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 16:27
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 12:46
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 16:00
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	SM 2340B		1	791354	DAJ	EET CHI	10/18/24 11:51
Total/NA	Analysis	300.0		1	788725	MM	EET CHI	10/02/24 13:08
Total/NA	Analysis	300.0		1	788726	W1T	EET CHI	10/02/24 13:08
Total/NA	Analysis	300.0		20	790715	MM	EET CHI	10/16/24 08:54
Total/NA	Prep	Distill/CN			789241	AC	EET CHI	10/06/24 11:29 - 10/06/24 11:59 [1]
Total/NA	Analysis	335.4		1	789387	AC	EET CHI	10/07/24 11:38
Total/NA	Prep	Distill/Ammonia			790879	EB	EET CHI	10/16/24 12:27 - 10/16/24 13:27 [1]
Total/NA	Analysis	350.1		1	792058	KF	EET CHI	10/23/24 15:58
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:30
Total/NA	Analysis	SM 2320B		1	790471	SO	EET CHI	10/11/24 16:22
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	788836	CLB	EET CHI	10/03/24 04:16
Total/NA	Analysis	SM 2540D		1	789260	CLB	EET CHI	10/06/24 19:42 - 10/06/24 19:45 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789177	CLB	EET CHI	10/05/24 00:18 - 10/05/24 00:33 [1]
Dissolved	Analysis	SM 5310C		1	790642	TR	EET CHI	10/15/24 07:59
Total/NA	Analysis	SM 5310C		1	790870	TR	EET CHI	10/15/24 18:26

Client Sample ID: MW-5SB_20240930_FBLL

Lab Sample ID: 500-257720-16

Date Collected: 09/30/24 18:00

Matrix: Water

Date Received: 10/02/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 19:38

Client Sample ID: MW-2A_20241001

Lab Sample ID: 500-257720-17

Date Collected: 10/01/24 11:15

Matrix: Water

Date Received: 10/03/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Dissolved	Analysis	1630		1	3059	CL	EET SSM	10/15/24 14:11
Total/NA	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Total/NA	Analysis	1630		1	3059	CL	EET SSM	10/15/24 17:55
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 19:46
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 19:42
Dissolved	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 18:26
Total Recoverable	Prep	1638			3013	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 21:51
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 13:33
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 16:29
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 12:50
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 16:02
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	SM 2340B		1	791354	DAJ	EET CHI	10/18/24 11:51
Total/NA	Analysis	300.0		10	790715	MM	EET CHI	10/16/24 09:09
Total/NA	Analysis	300.0		1	788852	W1T	EET CHI	10/03/24 11:05
Total/NA	Analysis	300.0		1	788853	W1T	EET CHI	10/03/24 11:05
Total/NA	Prep	Distill/CN			789241	AC	EET CHI	10/06/24 11:29 - 10/06/24 11:59 [1]
Total/NA	Analysis	335.4		1	789387	AC	EET CHI	10/07/24 11:39
Total/NA	Prep	Distill/Ammonia			790879	EB	EET CHI	10/16/24 12:27 - 10/16/24 13:27 [1]
Total/NA	Analysis	350.1		1	792058	KF	EET CHI	10/23/24 15:58
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:13
Total/NA	Analysis	SM 2320B		1	790650	SO	EET CHI	10/14/24 16:11
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	789273	CLB	EET CHI	10/06/24 20:23
Total/NA	Analysis	SM 2540D		1	789648	SO	EET CHI	10/08/24 16:31 - 10/08/24 16:33 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789177	CLB	EET CHI	10/05/24 00:33 - 10/05/24 00:48 [1]
Dissolved	Analysis	SM 5310C		1	791496	TR	EET CHI	10/20/24 07:44
Total/NA	Analysis	SM 5310C		1	791489	TR	EET CHI	10/18/24 11:42

Client Sample ID: MW-2A_20241001-FBLL

Lab Sample ID: 500-257720-18

Date Collected: 10/01/24 11:15

Matrix: Water

Date Received: 10/03/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 19:58

Client Sample ID: MW-2B_20241001

Lab Sample ID: 500-257720-19

Date Collected: 10/01/24 12:15

Matrix: Water

Date Received: 10/03/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Dissolved	Analysis	1630		1	3059	CL	EET SSM	10/15/24 18:16
Total/NA	Prep	1630			3033	JS	EET SSM	10/14/24 13:00
Total/NA	Analysis	1630		1	3059	CL	EET SSM	10/15/24 18:05
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 20:07
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 20:03
Dissolved	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 18:29
Total Recoverable	Prep	1638			3013	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 21:54
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 13:36
Dissolved	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Dissolved	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 16:32
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791756	RN	EET CHI	10/21/24 12:53
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	6020B		1	791285	RN	EET CHI	10/17/24 16:04
Total Recoverable	Prep	3005A			790852	BDE	EET CHI	10/16/24 08:38 - 10/16/24 14:38 [1]
Total Recoverable	Analysis	SM 2340B		1	791354	DAJ	EET CHI	10/18/24 11:51
Total/NA	Analysis	300.0		1	788852	W1T	EET CHI	10/03/24 11:21
Total/NA	Analysis	300.0		1	788853	W1T	EET CHI	10/03/24 11:21
Total/NA	Analysis	300.0		5	790728	W1T	EET CHI	10/16/24 05:44
Total/NA	Prep	Distill/CN			789775	AC	EET CHI	10/09/24 10:15 - 10/09/24 10:45 [1]
Total/NA	Analysis	335.4		1	790015	AC	EET CHI	10/10/24 12:50
Total/NA	Prep	Distill/Ammonia			790879	EB	EET CHI	10/16/24 12:27 - 10/16/24 13:27 [1]
Total/NA	Analysis	350.1		1	792058	KF	EET CHI	10/23/24 15:59
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:13
Total/NA	Analysis	SM 2320B		1	790650	SO	EET CHI	10/14/24 16:24
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	789273	CLB	EET CHI	10/06/24 20:30
Total/NA	Analysis	SM 2540D		1	789648	SO	EET CHI	10/08/24 16:33 - 10/08/24 16:35 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789278	CLB	EET CHI	10/07/24 00:44 - 10/07/24 00:48 [1]
Dissolved	Analysis	SM 5310C		1	791496	TR	EET CHI	10/20/24 07:44
Total/NA	Analysis	SM 5310C		1	791489	TR	EET CHI	10/18/24 12:10

Client Sample ID: MW-2B_20241001-FBLL

Lab Sample ID: 500-257720-20

Date Collected: 10/01/24 12:15

Matrix: Water

Date Received: 10/03/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 20:11

Client Sample ID: MW-3A_20241001

Lab Sample ID: 500-257720-21

Date Collected: 10/01/24 13:30

Matrix: Water

Date Received: 10/03/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3052	JS	EET SSM	10/16/24 11:21
Dissolved	Analysis	1630		1	3064	CL	EET SSM	10/17/24 00:09
Total/NA	Prep	1630			3052	JS	EET SSM	10/16/24 11:21
Total/NA	Analysis	1630		1	3064	CL	EET SSM	10/16/24 23:59
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 20:19
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 20:15
Dissolved	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 18:33
Total Recoverable	Prep	1638			3013	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 17:44
Dissolved	Prep	3005A			791079	BDE	EET CHI	10/17/24 09:10 - 10/17/24 15:10 [1]
Dissolved	Analysis	6020B		1	791837	RN	EET CHI	10/22/24 15:22
Dissolved	Prep	3005A			791079	BDE	EET CHI	10/17/24 09:10 - 10/17/24 15:10 [1]
Dissolved	Analysis	6020B		1	791955	RN	EET CHI	10/22/24 18:06
Total Recoverable	Prep	3005A			791079	BDE	EET CHI	10/17/24 09:10 - 10/17/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	791837	RN	EET CHI	10/22/24 15:15
Total Recoverable	Prep	3005A			791079	BDE	EET CHI	10/17/24 09:10 - 10/17/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	791955	RN	EET CHI	10/22/24 17:58
Total Recoverable	Prep	3005A			791079	BDE	EET CHI	10/17/24 09:10 - 10/17/24 15:10 [1]
Total Recoverable	Analysis	SM 2340B		1	791354	DAJ	EET CHI	10/23/24 07:29
Total/NA	Analysis	300.0		1	788852	W1T	EET CHI	10/03/24 11:36
Total/NA	Analysis	300.0		1	788853	W1T	EET CHI	10/03/24 11:36
Total/NA	Analysis	300.0		20	790728	W1T	EET CHI	10/16/24 07:02
Total/NA	Prep	Distill/CN			789241	AC	EET CHI	10/06/24 11:29 - 10/06/24 11:59 [1]
Total/NA	Analysis	335.4		1	789387	AC	EET CHI	10/07/24 11:40
Total/NA	Prep	Distill/Ammonia			790879	EB	EET CHI	10/16/24 12:27 - 10/16/24 13:27 [1]
Total/NA	Analysis	350.1		1	792058	KF	EET CHI	10/23/24 16:00
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:14
Total/NA	Analysis	SM 2320B		1	790650	SO	EET CHI	10/14/24 16:39
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	789273	CLB	EET CHI	10/06/24 20:36
Total/NA	Analysis	SM 2540D		1	789648	SO	EET CHI	10/08/24 16:35 - 10/08/24 16:37 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789278	CLB	EET CHI	10/07/24 00:48 - 10/07/24 00:52 [1]
Dissolved	Analysis	SM 5310C		1	791496	TR	EET CHI	10/20/24 07:44
Total/NA	Analysis	SM 5310C		1	791489	TR	EET CHI	10/18/24 12:38

Client Sample ID: MW-3A_20241001-FBLL

Lab Sample ID: 500-257720-22

Date Collected: 10/01/24 13:30

Matrix: Water

Date Received: 10/03/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 20:23

Client Sample ID: MW-3B_20241001

Lab Sample ID: 500-257720-23

Date Collected: 10/01/24 14:15

Matrix: Water

Date Received: 10/03/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3052	JS	EET SSM	10/16/24 11:21
Dissolved	Analysis	1630		1	3064	CL	EET SSM	10/17/24 00:30
Total/NA	Prep	1630			3052	JS	EET SSM	10/16/24 11:21
Total/NA	Analysis	1630		1	3064	CL	EET SSM	10/17/24 00:19
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 20:32
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 20:27
Dissolved	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 16:27
Total Recoverable	Prep	1638			3013	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 21:58
Dissolved	Prep	3005A			791079	BDE	EET CHI	10/17/24 09:10 - 10/17/24 15:10 [1]
Dissolved	Analysis	6020B		1	791837	RN	EET CHI	10/22/24 15:24
Dissolved	Prep	3005A			791079	BDE	EET CHI	10/17/24 09:10 - 10/17/24 15:10 [1]
Dissolved	Analysis	6020B		1	791955	RN	EET CHI	10/22/24 18:08
Total Recoverable	Prep	3005A			791079	BDE	EET CHI	10/17/24 09:10 - 10/17/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	791837	RN	EET CHI	10/22/24 15:17
Total Recoverable	Prep	3005A			791079	BDE	EET CHI	10/17/24 09:10 - 10/17/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	791955	RN	EET CHI	10/22/24 18:01
Total Recoverable	Prep	3005A			791079	BDE	EET CHI	10/17/24 09:10 - 10/17/24 15:10 [1]
Total Recoverable	Analysis	SM 2340B		1	791354	DAJ	EET CHI	10/23/24 07:29
Total/NA	Analysis	300.0		1	788852	W1T	EET CHI	10/03/24 11:52
Total/NA	Analysis	300.0		1	788853	W1T	EET CHI	10/03/24 11:52
Total/NA	Analysis	300.0		10	790728	W1T	EET CHI	10/16/24 07:17
Total/NA	Prep	Distill/CN			789241	AC	EET CHI	10/06/24 11:29 - 10/06/24 11:59 [1]
Total/NA	Analysis	335.4		1	789387	AC	EET CHI	10/07/24 11:43
Total/NA	Prep	Distill/Ammonia			790879	EB	EET CHI	10/16/24 12:27 - 10/16/24 13:27 [1]
Total/NA	Analysis	350.1		1	792058	KF	EET CHI	10/23/24 16:00
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:14
Total/NA	Analysis	SM 2320B		1	790650	SO	EET CHI	10/14/24 17:08
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	789273	CLB	EET CHI	10/06/24 20:38
Total/NA	Analysis	SM 2540D		1	789648	SO	EET CHI	10/08/24 16:37 - 10/08/24 16:39 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789278	CLB	EET CHI	10/07/24 00:52 - 10/07/24 00:55 [1]
Dissolved	Analysis	SM 5310C		1	791496	TR	EET CHI	10/20/24 07:44
Total/NA	Analysis	SM 5310C		1	791489	TR	EET CHI	10/18/24 13:06

Client Sample ID: MW-3B_20241001-FBLL

Lab Sample ID: 500-257720-24

Date Collected: 10/01/24 14:15

Matrix: Water

Date Received: 10/03/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 20:36

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-43SB_20241001

Date Collected: 10/01/24 08:30
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3052	JS	EET SSM	10/16/24 11:21
Dissolved	Analysis	1630		1	3064	CL	EET SSM	10/17/24 00:50
Total/NA	Prep	1630			3052	JS	EET SSM	10/16/24 11:21
Total/NA	Analysis	1630		1	3064	CL	EET SSM	10/17/24 00:40
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 16:10
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 20:48
Dissolved	Prep	1638			3010	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 18:44
Total Recoverable	Prep	1638			3013	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 22:01
Dissolved	Prep	3005A			791079	BDE	EET CHI	10/17/24 09:10 - 10/17/24 15:10 [1]
Dissolved	Analysis	6020B		1	791837	RN	EET CHI	10/22/24 15:26
Dissolved	Prep	3005A			791079	BDE	EET CHI	10/17/24 09:10 - 10/17/24 15:10 [1]
Dissolved	Analysis	6020B		1	791955	RN	EET CHI	10/22/24 18:10
Total Recoverable	Prep	3005A			791079	BDE	EET CHI	10/17/24 09:10 - 10/17/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	791837	RN	EET CHI	10/22/24 15:20
Total Recoverable	Prep	3005A			791079	BDE	EET CHI	10/17/24 09:10 - 10/17/24 15:10 [1]
Total Recoverable	Analysis	6020B		1	791955	RN	EET CHI	10/22/24 18:03
Total Recoverable	Prep	3005A			791079	BDE	EET CHI	10/17/24 09:10 - 10/17/24 15:10 [1]
Total Recoverable	Analysis	SM 2340B		1	791354	DAJ	EET CHI	10/23/24 07:29
Total/NA	Analysis	300.0		1	788852	W1T	EET CHI	10/03/24 12:07
Total/NA	Analysis	300.0		1	788853	W1T	EET CHI	10/03/24 12:07
Total/NA	Analysis	300.0		100	791383	MB	EET CHI	10/18/24 19:01
Total/NA	Prep	Distill/CN			792684	AC	EET CHI	10/28/24 11:51 - 10/28/24 12:21 [1]
Total/NA	Analysis	335.4		1	792690	AC	EET CHI	10/28/24 14:35
Total/NA	Prep	Distill/CN			789241	AC	EET CHI	10/06/24 11:29 - 10/06/24 11:59 [1]
Total/NA	Analysis	335.4		1	789387	AC	EET CHI	10/07/24 11:44
Total/NA	Prep	Distill/Ammonia			790879	EB	EET CHI	10/16/24 12:27 - 10/16/24 13:27 [1]
Total/NA	Analysis	350.1		1	792058	KF	EET CHI	10/23/24 16:01
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:14
Total/NA	Analysis	SM 2320B		1	790650	SO	EET CHI	10/14/24 17:22
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	789273	CLB	EET CHI	10/06/24 20:41
Total/NA	Analysis	SM 2540D		1	789648	SO	EET CHI	10/08/24 16:39 - 10/08/24 16:41 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789278	CLB	EET CHI	10/07/24 00:55 - 10/07/24 00:59 [1]
Dissolved	Analysis	SM 5310C		1	791496	TR	EET CHI	10/20/24 07:44
Total/NA	Analysis	SM 5310C		1	791489	TR	EET CHI	10/18/24 13:34

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Client Sample ID: MW-43SB_20241001-FBLL

Date Collected: 10/01/24 08:30
Date Received: 10/03/24 10:15

Lab Sample ID: 500-257720-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 16:14

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257720-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24 *
South Carolina	State	77001003	05-31-25
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-25
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-25
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: JES CHRESTENSEN	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1585	COC No: 500-127995-50241 44
Client Contact: Amanda Zeidler	Phone: 906-281-4726	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257720
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B - NaOH
D HNO3
A HCL

Other: 500-257720 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
1 MW-35-20240930	9-30-24	09145	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	11	
2 MW-35_20240930_FBLL	9-30-24	09145	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		9-30-24 1400	MSG		9-30-24 1400	MSG
2		10-1-24 1400	MSG	Fedex 4051 7962 1585	10-1-24 1400	Fedex
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				Stephanie Hernandez	10/2/24 1000	EFIA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 3.1+3.0, 4.9+4.8, 3.3+3.2, 5.3+5.2, 3.8+3.7, 4.5+4.4, 4.4+4.3, 3.3+3.2

Ver 04/02/2024

10/29/2024

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University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: JES CHRISTENSEN	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 405179621600	COC No: 500-127995-50241 61
Client Contact: Amanda Zeidler	Phone: 906-281-4726	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257720
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
	Preservation Code:							S	N	CB	B	S	D	D	N	A	D	D	N	A		
3	MW-36_20240930	9-30-24	13:30	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X		
4	MW-36_20240930_FBLK	9-30-24	13:30	G	Water										X							
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment.

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		9-30-24 1814 1830	MSC	FedEx 405179621600	10-1-24 1410	
2	Relinquished by:	Date/Time	Company	Received by: Stephanie Hernandez	10/2/24 1000	EEA
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

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Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: SD CHRISTENSEN	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1563	COC No: 500-127995-50241 17
Client Contact: Amanda Zeidler	Phone: 906-281-4726	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257720
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
5 NB2-1_20240930	9-30-24	1500	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
6 NB2-1_20240930_FBLL	9-30-24	1500	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	9-30-24 1800	MSG		10-1-24 0700 1400	MSG
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	10-1-24 1400	MSG	FedEx 4051 7962 1563	10-1-24 1400	Fedex
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			Stephanie Stemanoff	10/2/24 1000	EEA

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		

Eurofins Chicago
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Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jed Christensen	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 1574	COC No: 500-127995-50241 60
Client Contact: Amanda Zeidler	Phone: 906-281-4726	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257720
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
7 NB2-3_20240930	9-30-24	1645	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
8 NB2-3_20240930_FBLL	9-30-24	1645	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		10-1-24 1400	MSG	Fedex 4051 7962 1574	10-1-24 1400	Fedex
2				Stephanie Heman	10/2/24 1000	EEN
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 405179621552	COC No: 500-127995-50241 20
Client Contact: Amanda Zeidler	Phone: 906-487-7454	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257720
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL; Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
9	MW-AR_20240930	9-30-24	1050	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
10	MW-AR-20240930_FBLK	9-30-24	1050	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method Of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	9-30-24/18:00	MSG		9-30-24 1800	MSG
2		10-1-24 1400	MSG	Fedex 405179621552	10-1-24 1400	Fedex
3		Date/Time:	Company	Received by: Stephanie Herna	10/2/24 1000	FEDEX

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Ver: 04/02/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: 906-487 7454	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 405179621541	COC No: 500-127995-50241 27
Client Contact: Amanda Zeidler	Phone: Jacob Dean	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257720
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
11	MW BR-20240930	9.30.24	12 20	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
12	MW BR_20240930_FBLK	9.30.24	12 20	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	9.30.24/1800	MSG	[signature]	10-1-24 0700	MSG
2	[signature]	10-1-24 1400	MSG	FedEx 405179621541	10-1-24 1400	Fedex
3				Stephanie Herman	10/2/24 1000	EHD

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 405179621596	COC No: 500-127995-50241 31
Client Contact: Amanda Zeidler	Phone: 906 487-7454	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257720
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
13	MW-10-20240930	9-30 24	1500	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
14	MW-10-20240930-FBLL	9.30 24	1500	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment.

	Date/Time	Company		Date/Time	Company
Relinquished by: Jacob Dean	9.30 24 / 18:00	MSG	Received by: FedEx	9-30-24 18:00	MSG
Relinquished by:	10-1-24 14:00	MSG	Received by: FedEx 405179621596		
Relinquished by:	Date/Time:	Company	Received by: Stephanie Hamo	10/2/24 1000	EETh

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 04/02/2024

10/29/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 9145702528 13	COC No: 500-127995-50241 56
Client Contact: Amanda Zeidler	Phone: 906-487-7454	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-257720
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other:
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
15	MW-5SB_20240930	9.30.24	1800	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X		
16	MW-5SB_20240930_FBLK	9 30 24	1800	G	Water										X							
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment.

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	9-30-24/1800	MSG	FedEx 9145702528 13	10-1-24 1600	
2	Relinquished by:	Date/Time:	Company	Received by: Stephanie Hemond	10/2/24 1000	BETA
3	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2846	COC No: 500-127995-50241 26
Client Contact: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257720
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

500-257720 COC

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
17	MW-2A_20241001	10-1-24	1115	G	Water	N	Y	X	X	X	X	X	X	X	X	X	X	X	X	X	22	
18	MW-2A-20241001_FBLL	10-1-24	1115	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Relinquished by:	10-1-24 1400	MSG		10-1-24 14:00	MSG
2	Relinquished by:	10-2-24 1300	MSG	Fedex 4145702528 46		
3	Relinquished by:	Date/Time	Company	Received by: Stephanie Hernandez	10/2/24 1015	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 2.6+2.5, 3.3+3.2, 3.9+3.8, 2.5+2.4, 1.3+1.2

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 414570252835	COC No: 500-127995-50241 51
Client Contact: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257720

Address: 35503 Mall Circle Drive	Due Date Requested:	Analysis Requested	Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days		
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No		
Phone: 906-204-6500	PO #: Purchase Order not required		
Email: AZeidler@whitepinecu com	WO #:		
Project Name: White Pine, MI	Project #: 50023455		
Site:	SSOW#:		Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
19	MW-2B-20241001	10-01-24	1215	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
20	MW-2B-20241001_FBLL	10-01-24	1215	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by		Date		Time		Method of Shipment: Fedex Priority Overnight	
Relinquished by:	Date/Time: 10-01-24 15:00	Company: MSG	Received by:	Date/Time: 10-1-24 15:00	Company: MSG		
Relinquished by:	Date/Time: 10-2-24 13:00	Company: MSG	Received by: FedEx 414570252835	Date/Time:	Company:		
Relinquished by:	Date/Time:	Company:	Received by: Stephanie Hernandez	Date/Time: 10/3/24 1015	Company: EETA		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No: | Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 9145 7025 2857	COC No: 500-127995-50241 23
Client Contact: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-257720
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S - H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other:
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
21	MW-3A_20241001	10-01-24	1330	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	✓	22	
22	MW-3A_20241001_FBLL	10-01-24	1330	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		10-01-24 1500	MSG		10-1-24 1500	MSG
2		10-2-24 1300	MSG	FedEx 9145 7025 2857	10-2-24 1300	
3				Stephanie Hernandez	10/3/24 1015	EEIA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 414570252467	COC No: 500-127995-50241 59
Client Contact: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-257770
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			Other:
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
23 MW-3B_20241001	10-01-24	1415	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
24 MW-3B_20241001_FBLL	10-01-24	1415	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight
Relinquished by:	Date/Time: 10-01-24 1600	Company: MSG	Received by:	Date/Time: 10-1-24 16:00	Company: MSG
Relinquished by:	Date/Time: 10-2-24 13:00	Company: MSG	Received by: FedEx 414570252467	Date/Time: 10-2-24	Company:
Relinquished by:	Date/Time:	Company:	Received by: Stephanie Hemandez	Date/Time: 10/3/24 1015	Company: EETA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: JED CHRISTENSEN	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 414570252824	COC No.: 500-127995-50241 58
Client Contact: Amanda Zeidler	Phone: 906-281-4726	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257720
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL; Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note.
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
25 MW-43SB_20241001	10-1-24	08:30	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
26 MW-43SB_20241001_FBLL	10-1-24	08:30	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	10-2-24 14:00	MSG	FedEx 414570252824	10-2-24 14:00	
2				[signature] stephanie.hemmer@et	10/2/24 1015	EEIB
3						

Custody Seals Intact Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks.



616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES JS

CAD: 0780307/CAFE3808

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:

RMA:

FedEx Express

J241023112201uv

RETURNS MON-SAT

FedEx
TRK# 0221 4051 7962 1596

WED - 02 OCT AA
PRIORITY OVERNIGHT

XP JOTA

60484
IL-US
ORD

3732349 010ct2024 CMXA 581G2/B264/C0B8



500-257720 Waybi

JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:

RMA:

FedEx Express

J241023112201uv

FedEx
TRK# 0221 4145 7025 2813

WED - 02 OCT AA
PRIORITY OVERNIGHT

XP JOTA

60484
IL-US
ORD

3732349 010ct2024 CMXA 581G2/B264/C0B8


THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
CAD: 0780307/CAFE3808
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:
RMA:
FedEx Express
TRK# 0221 4051 7962 1552
XP JOTA
RETURNS MON-SAT
PRIORITY OVERNIGHT
WED - 02 OCT AA
60484
IL-US
ORD


THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
CAD: 0780307/CAFE3808
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:
RMA:
FedEx Express
TRK# 0221 4051 7962 1541
XP JOTA
RETURNS MON-SAT
PRIORITY OVERNIGHT
WED - 02 OCT AA
60484
IL-US
ORD

THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

CAD: 0780307/CAFE3808

Part # 159469-434 MTW EXP 01/25

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200 REF:
INV:
PO: DEPT:

RMA:

FedEx Express

J241023112201uv

THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

CAD: 0780307/CAFE3808

Part # 159469-434 MTW EXP 01/25

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200 REF:
INV:
PO: DEPT:

RMA:

FedEx Express

J241023112201uv

TRK# 0221 4051 7962 1600

RETURNS MON-SAT
PRIORITY OVERNIGHT

FedEx

TRK# 0221 4051 7962 1600

WED - 02 OCT AA
PRIORITY OVERNIGHT

XP JOTA

60484
IL-US
ORD

XP JOTA

60484
IL-US
ORD

WED - 02 OCT AA
PRIORITY OVERNIGHT

FedEx
TRK# 0221 4051 7962 1585

JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808

Part # 159469-4 MTW EXP 02/2

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200 REF:
INV:
PO: DEPT:

RMA

FedEx Express

J241023112201uv

FedEx
TRK# 0221 4145 7025 2846

THU - 03 OCT AA
PRIORITY OVERNIGHT

XP JOTA 48QT

60484
IL-US
ORD

5025547 02Oct2024 CMXA 581G2/B264/C0B8

THE
616 S
SUITE
HOUGHTON, 49931
UNITED STATES US

GROUP

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3808

Part # 159469-4 MTW EXP 02/25

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200 REF:
INV:
PO DEPT

RMA

FedEx Express

J241023112201uv

FedEx
TRK# 0221 4145 7025 2857

THU - 03 OCT AA
PRIORITY OVERNIGHT

XP JOTA 48QT

60484
IL-US
ORD

5025547 02Oct2024 CMXA 581G2/B264/C0B8

500-257720 Waybi

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193339.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257720-1
Address: 5755 8th Street East,	Due Date Requested: 10/22/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.7 / 0.9 °C
Delivery: UPS / FedEx / Other: (3)
Ice Type: Blue / Dry / Wet / None
Label Ver.: N Packing: B

Therm. ID: SC03 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.1 / 0.1 °C
Delivery: UPS / FedEx / Other: (3)
Ice Type: Blue / Dry / Wet / None
Label Ver.: N Packing: B

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total	Special Instructions/Note:
Preservation Code:														
MW-35_20240930 (500-257720-1)	9/30/24	09:45 Eastern	G	Water			X	X	X	X	X	X	8	
MW-35_20240930_FBLL (500-257720-2)	9/30/24	09:45 Eastern	G	Water				X					2	
MW-36_20240930 (500-257720-3)	9/30/24	13:30 Eastern	G	Water			X	X	X	X	X	X	8	
MW-36_20240930_FBLL (500-257720-4)	9/30/24	13:30 Eastern	G	Water				X					2	
NB2-1_20240930 (500-257720-5)	9/30/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	
NB2-1_20240930_FBLL (500-257720-6)	9/30/24	15:00 Eastern	G	Water				X					2	
NB2-3_20240930 (500-257720-7)	9/30/24	16:45 Eastern	G	Water			X	X	X	X	X	X	8	
NB2-3_20240930_FBLL (500-257720-8)	9/30/24	16:45 Eastern	G	Water				X					2	
MW-1AR_20240930 (500-257720-9)	9/30/24	10:50 Eastern	G	Water			X	X	X	X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification: Unconfirmed 7057 7621 0689	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	10/2/24 1620			10/3/24 5:30	EETN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/29/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193339.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257720-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/22/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-1AR_20240930_FBLL (500-257720-10)	9/30/24	10:50 Eastern	G	Water				X					2	
MW-1BR_20240930 (500-257720-11)	9/30/24	12:20 Eastern	G	Water			X	X	X	X	X	X	8	
MW-1BR_20240930_FBLL (500-257720-12)	9/30/24	12:20 Eastern	G	Water				X					2	
MW-10_20240930 (500-257720-13)	9/30/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	
MW-10_20240930_FBLL (500-257720-14)	9/30/24	15:00 Eastern	G	Water				X					2	
MW-55R_20240930 (500-257720-15)	9/30/24	18:00 Eastern	G	Water			X	X	X	X	X	X	8	
MW-55R_20240930_FBLL (500-257720-16)	9/30/24	18:00 Eastern	G	Water				X					2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Ashlie Scott	10/2/24 1620			10/3/24 9:30	EEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193394.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257720-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/22/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Therm. ID: SC04 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 1.3 / 1.4 °C
Delivery: UPS / (FedEx) / Other: _____
Ice Type: Blue / Dry / (Wet) / None
Label Ver.: JS 12/4/24 Packing: Bub

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containe	Special Instructions/Note:
			Preservation Code:											
MW-2A_20241001 (500-257720-17)	10/1/24	11:15 Eastern	G	Water			X	X	X	X	X	X	8	
MW-2A_20241001-FBLL (500-257720-18)	10/1/24	11:15 Eastern	G	Water				X					2	
MW-2B_20241001 (500-257720-19)	10/1/24	12:15 Eastern	G	Water			X	X	X	X	X	X	8	
MW-2B_20241001-FBLL (500-257720-20)	10/1/24	12:15 Eastern	G	Water				X					2	
MW-3A_20241001 (500-257720-21)	10/1/24	13:30 Eastern	G	Water			X	X	X	X	X	X	8	
MW-3A_20241001-FBLL (500-257720-22)	10/1/24	13:30 Eastern	G	Water				X					2	
MW-3B_20241001 (500-257720-23)	10/1/24	14:15 Eastern	G	Water			X	X	X	X	X	X	8	
MW-3B_20241001-FBLL (500-257720-24)	10/1/24	14:15 Eastern	G	Water				X					2	
MW-43SB_20241001 (500-257720-25)	10/1/24	08:30 Eastern	G	Water			X	X	X	X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10/3/24 1520	EET	[signature]	10/4/24 0950	ETNW
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7051 7621 0818

Ver: 05/06/2024

10/29/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/29/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193394.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257720-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/22/2024			Preservation Codes:
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			Other:

Therm. ID: SC04 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 1.3 / 1.4 °C
Delivery: UPS / FedEx / Other: _____
Ice Type: Blue / Dry / Wet / None
Label Ver.: JS 10/4/24 Packing: Bub

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containe	Special Instructions/Note:
			Preservation Code:											
MW-2A_20241001 (500-257720-17)	10/1/24	11:15 Eastern	G	Water			X	X	X	X	X	X	8	
MW-2A_20241001-FBLL (500-257720-18)	10/1/24	11:15 Eastern	G	Water				X					2	
MW-2B_20241001 (500-257720-19)	10/1/24	12:15 Eastern	G	Water			X	X	X	X	X	X	8	
MW-2B_20241001-FBLL (500-257720-20)	10/1/24	12:15 Eastern	G	Water				X					2	
MW-3A_20241001 (500-257720-21)	10/1/24	13:30 Eastern	G	Water			X	X	X	X	X	X	8	
MW-3A_20241001-FBLL (500-257720-22)	10/1/24	13:30 Eastern	G	Water				X					2	
MW-3B_20241001 (500-257720-23)	10/1/24	14:15 Eastern	G	Water			X	X	X	X	X	X	8	
MW-3B_20241001-FBLL (500-257720-24)	10/1/24	14:15 Eastern	G	Water				X					2	
MW-43SB_20241001 (500-257720-25)	10/1/24	08:30 Eastern	G	Water			X	X	X	X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: [signature]	10/3/24 1520	EET	[signature]	10/4/24 0930	EETNW
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7095 7621 0818

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/29/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193339.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257720-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/22/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Therm. ID: SC0 2 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.7 / 0.9 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: n Packing: B

Therm. ID: SC0 3 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.1 / 0.1 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: n Packing: B

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total
Preservation Code:													
MW-35_20240930 (500-257720-1)	9/30/24	09:45 Eastern	G	Water			X	X	X	X	X	X	8
MW-35_20240930_FBLL (500-257720-2)	9/30/24	09:45 Eastern	G	Water				X					2
MW-36_20240930 (500-257720-3)	9/30/24	13:30 Eastern	G	Water			X	X	X	X	X	X	8
MW-36_20240930_FBLL (500-257720-4)	9/30/24	13:30 Eastern	G	Water				X					2
NB2-1_20240930 (500-257720-5)	9/30/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8
NB2-1_20240930_FBLL (500-257720-6)	9/30/24	15:00 Eastern	G	Water				X					2
NB2-3_20240930 (500-257720-7)	9/30/24	16:45 Eastern	G	Water			X	X	X	X	X	X	8
NB2-3_20240930_FBLL (500-257720-8)	9/30/24	16:45 Eastern	G	Water				X					2
MW-1AR_20240930 (500-257720-9)	9/30/24	10:50 Eastern	G	Water			X	X	X	X	X	X	8

Special Instructions/Note:

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification Unconfirmed 7051 7621 0689	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 10/2/24 1620	Company	Received by:	Date/Time: 10/3/24 5:30	Company FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193339.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257720-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/22/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS)	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-1AR_20240930_FBLL (500-257720-10)	9/30/24	10:50 Eastern	G	Water				X					2	
MW-1BR_20240930 (500-257720-11)	9/30/24	12:20 Eastern	G	Water			X	X	X	X	X	X	8	
MW-1BR_20240930_FBLL (500-257720-12)	9/30/24	12:20 Eastern	G	Water				X					2	
MW-10_20240930 (500-257720-13)	9/30/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	
MW-10_20240930_FBLL (500-257720-14)	9/30/24	15:00 Eastern	G	Water				X					2	
MW-55R_20240930 (500-257720-15)	9/30/24	18:00 Eastern	G	Water			X	X	X	X	X	X	8	
MW-55R_20240930_FBLL (500-257720-16)	9/30/24	18:00 Eastern	G	Water				X					2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 10/2/24 1620	Company	Received by:	Date/Time: 10/3/24 9:30	Company	EEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/29/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193339.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257720-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/22/2024			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Therm. ID: SC07 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.7 / 0.9 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: n Packing: B

Therm. ID: SC07 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.1 / 0.1 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: n Packing: B

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-35_20240930 (500-257720-1)	9/30/24	09:45 Eastern	G	Water			X	X	X	X	X	X	8	
MW-35_20240930_FBLL (500-257720-2)	9/30/24	09:45 Eastern	G	Water				X					2	
MW-36_20240930 (500-257720-3)	9/30/24	13:30 Eastern	G	Water			X	X	X	X	X	X	8	
MW-36_20240930_FBLL (500-257720-4)	9/30/24	13:30 Eastern	G	Water				X					2	
NB2-1_20240930 (500-257720-5)	9/30/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	
NB2-1_20240930_FBLL (500-257720-6)	9/30/24	15:00 Eastern	G	Water				X					2	
NB2-3_20240930 (500-257720-7)	9/30/24	16:45 Eastern	G	Water			X	X	X	X	X	X	8	
NB2-3_20240930_FBLL (500-257720-8)	9/30/24	16:45 Eastern	G	Water				X					2	
MW-1AR_20240930 (500-257720-9)	9/30/24	10:50 Eastern	G	Water			X	X	X	X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification Unconfirmed 7051 7621 0689	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 10/2/24 1620	Company	Received by:		Date/Time: 10/3/24 5:30	Company KETN
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/29/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193339.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257720-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/22/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-1AR_20240930_FBLL (500-257720-10)	9/30/24	10:50 Eastern	G	Water				X					2	
MW-1BR_20240930 (500-257720-11)	9/30/24	12:20 Eastern	G	Water			X	X	X	X	X	X	8	
MW-1BR_20240930_FBLL (500-257720-12)	9/30/24	12:20 Eastern	G	Water				X					2	
MW-10_20240930 (500-257720-13)	9/30/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	
MW-10_20240930_FBLL (500-257720-14)	9/30/24	15:00 Eastern	G	Water				X					2	
MW-55R_20240930 (500-257720-15)	9/30/24	18:00 Eastern	G	Water			X	X	X	X	X	X	8	
MW-55R_20240930_FBLL (500-257720-16)	9/30/24	18:00 Eastern	G	Water				X					2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10/2/24 1620		[signature]	10/3/24 9:30	ET
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-257720-1

Login Number: 257720
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0,4.8,3.2,5.2,3.7,4.4,4.3,3.2,2.5,3.2,3.8,2.4,1.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-257720-1

Login Number: 257720
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 10/03/24 12:28 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-257720-1

Login Number: 257720
List Number: 3
Creator: Groden, Kyle J

List Source: Eurofins Seattle Specialty Metals
List Creation: 10/04/24 02:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-257720 Field Sheet

Date:	10/3/2024
End Time:	12:50
pH Paper Lot:	hc324723
Analyst:	VL

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-257720-F-11	<2				
500-257720-F-11	<2				
500-257720-E-1	<2				
500-257720-E-5	<2				
500-257720-E-11	<2				
500-257720-F-5	<2				
500-257720-F-7	<2				
500-257720-E-3	<2				
500-257720-E-15	<2				
500-257720-E-7	<2				
500-257720-F-3	<2				
500-257720-F-15	<2				
500-257720-E-13	<2				
500-257720-F-13	<2				
500-257720-E-9	<2				
500-257720-F-9	<2				

10/3/24

eurofins | Environment Testing

500-257720 Field Sheet

Date:	10/3/2024
End Time:	12:50
pH Paper Lot:	hc324723
Analyst:	IR

Preservative ID	Preservative Type	Container ID
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-257720-N-13	22				
500-257720-N-7	22				
500-257720-N-13	<2				
500-257720-M-7	22				
500-257720-M-1	<2				
500-257720-M-13	<2				
500-257720-N-11	<2				
500-257720-M-11	22			IR	
500-257720-N-5	<2				
500-257720-N-15	<2			10/3/24	
500-257720-M-3	22				
500-257720-N-3	<2				
500-257720-M-9	22				
500-257720-M-5	22				
500-257720-M-15	22				
500-257720-N-9	<2				

eurofins | Environment Testing

500-257720 Field Sheet

Date:	10/3/2024
End Time:	13:20
KI Paper Lot:	na
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	27923
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-257720-A-1	A	Y	.8	2	
500-257720-B-1	A	Y	.8	2	
500-257720-C-1	A	Y	.8	2	
500-257720-D-1	A	Y	.8	2	
500-257720-A-2	A	Y	.8	2	
500-257720-B-2	A	Y	.8	2	
500-257720-A-3	A	Y	.8	2	
500-257720-B-3	A	Y	.8	2	
500-257720-C-3	A	Y	.8	2	
500-257720-D-3	A	Y	.8	2	
500-257720-A-4	A	Y	.8	2	
500-257720-B-4	A	Y	.8	2	
500-257720-A-5	A	Y	.8	2	
500-257720-B-5	A	Y	.8	2	10/3/24
500-257720-C-5	A	Y	.8	2	
500-257720-D-5	A	Y	.8	2	
500-257720-A-6	A	Y	.8	2	
500-257720-B-6	A	Y	.8	2	
500-257720-A-7	A	Y	.8	2	
500-257720-B-7	A	Y	.8	2	
500-257720-C-7	A	Y	.8	2	
500-257720-D-7	A	Y	.8	2	
500-257720-A-8	A	Y	.8	2	
500-257720-B-8	A	Y	.8	2	
500-257720-A-9	A	Y	.8	2	
500-257720-B-9	A	Y	.8	2	
500-257720-C-9	A	Y	.8	2	
500-257720-D-9	A	Y	.8	2	
500-257720-A-10	A	Y	.8	2	
500-257720-B-10	A	Y	.8	2	
500-257720-A-11	A	Y	.8	2	
500-257720-B-11	A	Y	.8	2	
500-257720-C-11	A	Y	.8	2	
500-257720-D-11	A	Y	.8	2	
500-257720-A-12	A	Y	.8	2	

eurofins | Environment Testing

Date:	10/3/2024
End Time:	13:20
KI Paper Lot:	na
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	27923
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
500-257720-D-11	A	Y	.9 2	
500-257720-A-12	A	Y	.8 2	
500-257720-B-12	A	Y	.8 2	
500-257720-A-13	A	Y	.8 2	
500-257720-B-13	A	Y	.8 2	
500-257720-C-13	A	Y	.8 2	
500-257720-D-13	A	Y	.8 2	
500-257720-A-14	A	Y	.8 2	
500-257720-B-14	A	Y	.8 2	
500-257720-A-15	A	Y	.8 2	
500-257720-B-15	A	Y	.8 2	
500-257720-C-15	A	Y	.8 2	
500-257720-D-15	A	Y	.8 2	
500-257720-A-16	A	Y	.8 2	
500-257720-B-16	A	Y	.8 2	

10/3/24

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500-257720 Field Sheet

10/29/2024

Date:	10/4/2024
End Time:	1629
pH Paper Lot:	HC441704
Analyst:	

Preservative ID	Preservative Type	Container ID
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-257720-N-19	<2				
500-257720-M-21	<2				
500-257720-N-25	<2				
500-257720-M-23	<2				
500-257720-N-23	<2				
500-257720-M-17	<2				
500-257720-N-17	<2				
500-257720-M-19	<2				
500-257720-N-21	<2				
500-257720-M-25	<2				
500-257720-E-25	<2				
500-257720-E-23	<2				
500-257720-F-19	<2				
500-257720-F-23	<2				
500-257720-E-19	<2				
500-257720-E-17	<2				
500-257720-F-17	<2				
500-257720-F-25	<2				
500-257720-F-21	<2				
500-257720-E-21	<2				

10-4-24

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500-257720 Field Sheet

Date:	10/4/2024
End Time:	15:29
KI Paper Lot:	n/a
Analyst:	JS

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	27923
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

pipette : MP_HG03

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
500-257720-A-17	A	Y	0.8x0 [7].	
500-257720-B-17	A	Y	0.8x0 [6].	
500-257720-C-17	A	Y	0.8x0 JS 10/4/24	
500-257720-D-17	A	Y	0.8x0	
500-257720-C-21	A	Y	0.8x0	
500-257720-D-21	A	Y	0.8x0	
500-257720-A-19	A	Y	0.8x0	
500-257720-B-19	A	Y	0.8x0	
500-257720-C-19	A	Y	0.8x0	
500-257720-D-19	A	Y	0.8x0	
500-257720-A-18	A	Y	0.8x0	
500-257720-B-18	A	Y	0.8x0	
500-257720-A-20	A	Y	0.8x0	
500-257720-B-20	A	Y	0.8x0	
500-257720-A-21	A	Y	0.8x0	
500-257720-B-21	A	Y	0.8x0	
500-257720-A-24	A	Y	0.8x0	
500-257720-B-24	A	Y	0.8x0	
500-257720-A-23	A	Y	0.8x0	
500-257720-B-23	A	Y	0.8x0	
500-257720-A-22	A	Y	0.8x0	
500-257720-B-22	A	Y	0.8x0	
500-257720-B-26	A	Y	0.8x0	
500-257720-A-26	A	Y	0.8x0	
500-257720-A-25	A	Y	0.8x0	
500-257720-B-25	A	Y	0.8x0	
500-257720-D-23	A	Y	0.8x0	
500-257720-C-23	A	Y	0.8x0	
500-257720-C-25	A	Y	0.8x0	
500-257720-D-25	A	Y	0.8x0	

JS
12/19/24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 10/29/2024 9:32:51 AM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-257876-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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10/29/2024 9:32:51 AM

Authorized for release by
Sandie Fredrick, Senior Project Manager
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(920)261-1660

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Job ID: 500-257876-1 — Eurofins Chicago

Job Narrative
500-257876-1

Receipt
The samples were received on 10/04/24 09:00. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 11 coolers at receipt time were 0.1º C, 1.2º C, 1.5º C, 1.6º C, 1.7º C, 1.8º C, 2.1º C, 2.2º C, 3.5º C, 3.6º C and 3.7º C.

Receipt Exceptions
Only received one1 liter plastic unpreserved. Unsure if this is enough volume for all requested analysis. Placed limited volume sticker on container, all analysis logged. MW-37_20241002 (500-257876-1)

COC is checked off for DOC however only received TOC vials. Please confirm-cancelled DOC. MW-37_20241002 (500-257876-1)

Sample #1 received with insufficient time remaining.

Metals
Method 6020B: The continuing calibration blank (CCB) at line 87 for analytical batch 500-792126 contained Sodium greater than the reporting limit (RL), and were not reanalyzed because associated sample results were 10x the concentration found in the blank. The data have been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The following samples were analyzed outside of analytical holding time MW-37_20241002 (500-257876-1), SMW-3_20241002 (500-257876-3) and NB1-3_20241002 (500-257876-7).

Method 300.0: The method blank for analytical batch 500-789103 contained Nitrate as N and Nitrate Nitrite as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 335.4: Instrument Blank result is at the RL. Associated samples were non-detect. The data has been qualified and reported. MW-37_20241002 (500-257876-1), SMW-3_20241002 (500-257876-3), DUP-01-GW_20241002 (500-257876-5), NB1-3_20241002 (500-257876-7), CBR-02_20241003 (500-257876-9), EB-01-GW_20241002 (500-257876-11), SMW-1_20241002 (500-257876-15) and MW-5A_20241002 (500-257876-17)

Method 300.0: The method blank for analytical batch 500-792265 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: MW-37_20241002 — Lab Sample ID: 500-257876-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.71		0.50	0.20	ng/L	1		1631E	Total/NA
Uranium	11		0.050	0.0098	ug/L	1		1638	Total Recoverable
Aluminum	990		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	1.9		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	92		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	220	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	74000		200	44	ug/L	1		6020B	Total Recoverable
Chromium	4.0	J	5.0	1.1	ug/L	1		6020B	Total Recoverable
Cobalt	0.80	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	3.9		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	820		100	47	ug/L	1		6020B	Total Recoverable
Lead	2.7		0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	15		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	13000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	67		2.5	0.79	ug/L	1		6020B	Total Recoverable
Nickel	1.6	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	1700		500	110	ug/L	1		6020B	Total Recoverable
Sodium	12000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	530		4.0	0.64	ug/L	1		6020B	Total Recoverable
Tin	3.7	J	5.0	1.3	ug/L	1		6020B	Total Recoverable
Vanadium	8.1		5.0	2.2	ug/L	1		6020B	Total Recoverable
Hardness as calcium carbonate	240		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Nitrate as N	0.48	J H B	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	21		1.0	0.12	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.48	J H B	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	1.8		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.22		0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	210		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	210		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	300		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	19		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.4		1.0	0.47	mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-37_20241002-FBLL — Lab Sample ID: 500-257876-2

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: SMW-3_20241002 — Lab Sample ID: 500-257876-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.28	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.34	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.046	J	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.037	J	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	25	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	1.3		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	33		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	270	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	11000		200	44	ug/L	1		6020B	Total Recoverable
Magnesium	1700		200	49	ug/L	1		6020B	Total Recoverable
Manganese	15		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	17		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	960		500	110	ug/L	1		6020B	Total Recoverable
Sodium	43000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	120		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	1.4	B	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	34		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	280	B	50	13	ug/L	1		6020B	Dissolved
Calcium	11000		200	44	ug/L	1		6020B	Dissolved
Magnesium	1700	B	200	49	ug/L	1		6020B	Dissolved
Manganese	13		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	17		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	970		500	110	ug/L	1		6020B	Dissolved
Sodium	42000		200	77	ug/L	1		6020B	Dissolved
Strontium	120	B	4.0	0.64	ug/L	1		6020B	Dissolved
Tin	3.4	J	5.0	1.3	ug/L	1		6020B	Dissolved
Vanadium	3.7	J B	5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	35		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	43		1.0	0.12	mg/L	1		300.0	Total/NA
Alkalinity	74		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	74		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	160		10	4.3	mg/L	1		SM 2540C	Total/NA
Sulfide	1.1		1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	2.7		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	2.6		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: SMW-3_20241002-FBLL — Lab Sample ID: 500-257876-4

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: DUP-01-GW_20241002 — Lab Sample ID: 500-257876-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.34	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.34	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.036	J	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.037	J	0.050	0.0098	ug/L	1		1638	Dissolved
Arsenic	1.2		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	32		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	260	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	11000		200	44	ug/L	1		6020B	Total Recoverable
Magnesium	1700		200	49	ug/L	1		6020B	Total Recoverable
Manganese	15		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	17		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	930		500	110	ug/L	1		6020B	Total Recoverable
Sodium	42000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	120		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	1.3	B	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	33		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	270	B	50	13	ug/L	1		6020B	Dissolved
Calcium	11000		200	44	ug/L	1		6020B	Dissolved
Magnesium	1700	B	200	49	ug/L	1		6020B	Dissolved
Manganese	13		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	16		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	970		500	110	ug/L	1		6020B	Dissolved
Sodium	42000		200	77	ug/L	1		6020B	Dissolved
Strontium	120	B	4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	3.7	J B	5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	33		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.18	J	1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	43		1.0	0.12	mg/L	1		300.0	Total/NA
Alkalinity	69		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	69		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	140		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.7		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	2.7		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: DUP-01-GW_20241002-FBLL — Lab Sample ID: 500-257876-6

No Detections.

Client Sample ID: NB1-3_20241002 — Lab Sample ID: 500-257876-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.0		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.34	J	0.50	0.20	ng/L	1		1631E	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: NB1-3_20241002 (Continued)

Lab Sample ID: 500-257876-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	64	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	2.3		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	460		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	1200	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	67000		200	44	ug/L	1		6020B	Total Recoverable
Copper	3.2		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	1100		100	47	ug/L	1		6020B	Total Recoverable
Lithium	16		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	4300		200	49	ug/L	1		6020B	Total Recoverable
Manganese	170		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	15		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	11000		500	110	ug/L	1		6020B	Total Recoverable
Sodium	110000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	1000		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	2.4	B	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	480		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	1200	B	50	13	ug/L	1		6020B	Dissolved
Calcium	66000		200	44	ug/L	1		6020B	Dissolved
Iron	780		100	47	ug/L	1		6020B	Dissolved
Lithium	17		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	4100	B	200	49	ug/L	1		6020B	Dissolved
Manganese	160		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	15		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	11000		500	110	ug/L	1		6020B	Dissolved
Sodium	100000		200	77	ug/L	1		6020B	Dissolved
Strontium	1100	B	4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	2.2	J B	5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	190		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	2.3		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	240		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	0.24	J	1.0	0.21	mg/L	1		300.0	Total/NA
Ammonia	0.56		0.20	0.10	mg/L	1		350.1	Total/NA
Phosphorus as P	0.14		0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	73		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	73		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	540		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	8.2		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	3.4		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	3.8		1.0	0.47	mg/L	1		SM 5310C	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: NB1-3_20241002-FBLL — Lab Sample ID: 500-257876-8

No Detections.

Client Sample ID: CBR-02_20241003 — Lab Sample ID: 500-257876-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.060	B	0.050	0.022	ng/L	1		1630	Total/NA
Methyl Mercury	0.050		0.050	0.022	ng/L	1		1630	Dissolved
Mercury	0.65		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.68		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.28		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.29		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	42	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.49	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	73		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	69	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	30000		200	44	ug/L	1		6020B	Total Recoverable
Copper	3.2		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	330		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	6400		200	49	ug/L	1		6020B	Total Recoverable
Manganese	12		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1500		500	110	ug/L	1		6020B	Total Recoverable
Sodium	9900		200	77	ug/L	1		6020B	Total Recoverable
Strontium	170		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.57	J B	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	73		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	70	B	50	13	ug/L	1		6020B	Dissolved
Calcium	28000		200	44	ug/L	1		6020B	Dissolved
Copper	1.2	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	110		100	47	ug/L	1		6020B	Dissolved
Magnesium	6200	B	200	49	ug/L	1		6020B	Dissolved
Manganese	8.9		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1500		500	110	ug/L	1		6020B	Dissolved
Sodium	9600		200	77	ug/L	1		6020B	Dissolved
Strontium	170	B	4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	2.3	J B	5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	100		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	23		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	1.3		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	90		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	90		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	140		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	6.2		1.0	0.47	mg/L	1		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client Sample ID: CBR-02_20241003 (Continued) — Lab Sample ID: 500-257876-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	6.2		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: CBR-02_20241003-FBLL — Lab Sample ID: 500-257876-10

No Detections.

Client Sample ID: EB-01-GW_20241002 — Lab Sample ID: 500-257876-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.31	J	0.50	0.20	ng/L	1		1631E	Total/NA
Total Dissolved Solids	10		10	4.3	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-01-GW_20241002-FBLL — Lab Sample ID: 500-257876-12

No Detections.

Client Sample ID: NB1-1_20241002 — Lab Sample ID: 500-257876-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.032	J	0.050	0.022	ng/L	1		1630	Total/NA
Mercury	1.9		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.42	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.015	J	0.050	0.0098	ug/L	1		1638	Total Recoverable
Aluminum	270		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	1.1		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	620		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	1300	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	69000		200	44	ug/L	1		6020B	Total Recoverable
Copper	16		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	2600		100	47	ug/L	1		6020B	Total Recoverable
Lead	1.0		0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	16		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	10000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	120		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	3.6	J	5.0	2.5	ug/L	1		6020B	Total Recoverable
Nickel	0.98	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	12000		500	110	ug/L	1		6020B	Total Recoverable
Sodium	120000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	1300		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	2.4	J	5.0	2.2	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: NB1-1_20241002 (Continued) — Lab Sample ID: 500-257876-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	9.3	J	20	6.9	ug/L	1		6020B	Total Recoverable
Arsenic	1.3	B	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	670		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	1400	B	50	13	ug/L	1		6020B	Dissolved
Calcium	74000		200	44	ug/L	1		6020B	Dissolved
Copper	0.55	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	250		100	47	ug/L	1		6020B	Dissolved
Lithium	19		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	10000	B	200	49	ug/L	1		6020B	Dissolved
Manganese	110		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	13000		500	110	ug/L	1		6020B	Dissolved
Sodium	130000		200	77	ug/L	1		6020B	Dissolved
Strontium	1400	B	4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	2.7	J B	5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	210		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	2.2		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	240		10	1.2	mg/L	10		300.0	Total/NA
Fluoride	0.39	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	17		1.0	0.21	mg/L	1		300.0	Total/NA
Cyanide, Total	0.0050		0.0050	0.0036	mg/L	1		335.4	Total/NA
Ammonia	0.68		0.20	0.10	mg/L	1		350.1	Total/NA
Phosphorus as P	0.081		0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	130		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	130		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.40		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	660		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	51		13	4.8	mg/L	1		SM 2540D	Total/NA
Sulfide	1.7		1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	4.0		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	3.3		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: NB1-1_20241002-FBLL — Lab Sample ID: 500-257876-14

No Detections.

Client Sample ID: SMW-1_20241002 — Lab Sample ID: 500-257876-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.3		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.29	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	5.4		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	4.8		0.050	0.0098	ug/L	1		1638	Dissolved
Arsenic	1.3		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	57		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	1200	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	18000		200	44	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: SMW-1_20241002 (Continued)

Lab Sample ID: 500-257876-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.6	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	69	J	100	47	ug/L	1		6020B	Total Recoverable
Lithium	10		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	8500		200	49	ug/L	1		6020B	Total Recoverable
Manganese	14		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	6.3		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	3200		500	110	ug/L	1		6020B	Total Recoverable
Sodium	55000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	310		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	2.6	J	5.0	2.2	ug/L	1		6020B	Total Recoverable
Aluminum	4700		100	25	ug/L	1		6020B	Dissolved
Arsenic	1.9	B	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	100		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	1200	B	50	13	ug/L	1		6020B	Dissolved
Calcium	24000		200	44	ug/L	1		6020B	Dissolved
Chromium	6.1		5.0	1.1	ug/L	1		6020B	Dissolved
Cobalt	1.8		1.0	0.40	ug/L	1		6020B	Dissolved
Copper	6.0		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	3700		100	47	ug/L	1		6020B	Dissolved
Lead	1.6		0.50	0.19	ug/L	1		6020B	Dissolved
Lithium	11		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	11000	B	200	49	ug/L	1		6020B	Dissolved
Manganese	86		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	6.6		5.0	2.5	ug/L	1		6020B	Dissolved
Nickel	5.0		2.0	0.63	ug/L	1		6020B	Dissolved
Potassium	4600		500	110	ug/L	1		6020B	Dissolved
Sodium	54000		200	77	ug/L	1		6020B	Dissolved
Strontium	350	B	4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	11	B	5.0	2.2	ug/L	1		6020B	Dissolved
Zinc	13	J	20	6.9	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	80		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Nitrate as N	0.50	J	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	4.9		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.48	J	1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.50	J	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	14		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.15		0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	180		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	180		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	220		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	89		17	6.4	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.4		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	1.3		1.0	0.47	mg/L	1		SM 5310C	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: SMW-1_20241002-FBLL — Lab Sample ID: 500-257876-16

No Detections.

Client Sample ID: MW-5A_20241002 — Lab Sample ID: 500-257876-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.58		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.30	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	11		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	12		0.050	0.0098	ug/L	1		1638	Dissolved
Arsenic	0.64	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	710		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	190	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	180000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	0.46	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	1.2	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	70	J	100	47	ug/L	1		6020B	Total Recoverable
Lithium	57		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	17000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	1000		2.5	0.79	ug/L	1		6020B	Total Recoverable
Nickel	0.72	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	550		500	110	ug/L	1		6020B	Total Recoverable
Sodium	110000	^2	200	77	ug/L	1		6020B	Total Recoverable
Strontium	3300		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.73	J B	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	560		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	200	B	50	13	ug/L	1		6020B	Dissolved
Calcium	170000		200	44	ug/L	1		6020B	Dissolved
Copper	1.8	J	2.0	0.50	ug/L	1		6020B	Dissolved
Lithium	64		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	11000	B F1	200	49	ug/L	1		6020B	Dissolved
Manganese	570	F1 F2	2.5	0.79	ug/L	1		6020B	Dissolved
Nickel	0.72	J	2.0	0.63	ug/L	1		6020B	Dissolved
Potassium	750		500	110	ug/L	1		6020B	Dissolved
Sodium	120000		200	77	ug/L	1		6020B	Dissolved
Strontium	3300	B	4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	2.9	J B	5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	520		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	2.6		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	270	B	10	1.2	mg/L	10		300.0	Total/NA
Sulfate	2.0		1.0	0.21	mg/L	1		300.0	Total/NA
Cyanide, Total	0.0040	J ^2	0.0050	0.0036	mg/L	1		335.4	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-5A_20241002 (Continued) — Lab Sample ID: 500-257876-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity	350		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	350		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.70		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	1100		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	3.3		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	3.4		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-5A_20241002-FBLL — Lab Sample ID: 500-257876-18

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-257876-1	MW-37_20241002	Water	10/02/24 10:30	10/04/24 09:00
500-257876-2	MW-37_20241002-FBLL	Water	10/02/24 10:30	10/04/24 09:00
500-257876-3	SMW-3_20241002	Water	10/02/24 11:50	10/04/24 09:00
500-257876-4	SMW-3_20241002-FBLL	Water	10/02/24 11:50	10/04/24 09:00
500-257876-5	DUP-01-GW_20241002	Water	10/02/24 23:59	10/04/24 09:00
500-257876-6	DUP-01-GW_20241002-FBLL	Water	10/02/24 23:59	10/04/24 09:00
500-257876-7	NB1-3_20241002	Water	10/02/24 12:15	10/04/24 09:00
500-257876-8	NB1-3_20241002-FBLL	Water	10/02/24 12:15	10/04/24 09:00
500-257876-9	CBR-02_20241003	Water	10/03/24 09:45	10/04/24 09:00
500-257876-10	CBR-02_20241003-FBLL	Water	10/03/24 09:45	10/04/24 09:00
500-257876-11	EB-01-GW_20241002	Water	10/02/24 17:00	10/04/24 09:00
500-257876-12	EB-01-GW_20241002-FBLL	Water	10/02/24 17:00	10/04/24 09:00
500-257876-13	NB1-1_20241002	Water	10/02/24 13:30	10/04/24 09:00
500-257876-14	NB1-1_20241002-FBLL	Water	10/02/24 13:30	10/04/24 09:00
500-257876-15	SMW-1_20241002	Water	10/02/24 16:30	10/04/24 09:00
500-257876-16	SMW-1_20241002-FBLL	Water	10/02/24 16:30	10/04/24 09:00
500-257876-17	MW-5A_20241002	Water	10/02/24 15:00	10/04/24 09:00
500-257876-18	MW-5A_20241002-FBLL	Water	10/02/24 15:00	10/04/24 09:00

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: MW-37_20241002

Date Collected: 10/02/24 10:30
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-1

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.71**		0.50	0.20	ng/L			10/10/24 16:18	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**11**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 19:40	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**990**		100	25	ug/L		10/22/24 15:43	10/23/24 19:52	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 15:43	10/23/24 19:52	1
Arsenic	**1.9**		1.0	0.23	ug/L		10/22/24 15:43	10/23/24 19:52	1
Barium	**92**		2.5	0.73	ug/L		10/22/24 15:43	10/23/24 19:52	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 15:43	10/24/24 12:11	1
Boron	**220**	**B**	50	13	ug/L		10/22/24 15:43	10/24/24 12:11	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 15:43	10/23/24 19:52	1
Calcium	**74000**		200	44	ug/L		10/22/24 15:43	10/24/24 12:11	1
Chromium	**4.0**	**J**	5.0	1.1	ug/L		10/22/24 15:43	10/23/24 19:52	1
Cobalt	**0.80**	**J**	1.0	0.40	ug/L		10/22/24 15:43	10/23/24 19:52	1
Copper	**3.9**		2.0	0.50	ug/L		10/22/24 15:43	10/23/24 19:52	1
Iron	**820**		100	47	ug/L		10/22/24 15:43	10/23/24 19:52	1
Lead	**2.7**		0.50	0.19	ug/L		10/22/24 15:43	10/23/24 19:52	1
Lithium	**15**		10	2.5	ug/L		10/22/24 15:43	10/23/24 19:52	1
Magnesium	**13000**		200	49	ug/L		10/22/24 15:43	10/23/24 19:52	1
Manganese	**67**		2.5	0.79	ug/L		10/22/24 15:43	10/23/24 19:52	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/22/24 15:43	10/23/24 19:52	1
Nickel	**1.6**	**J**	2.0	0.63	ug/L		10/22/24 15:43	10/23/24 19:52	1
Potassium	**1700**		500	110	ug/L		10/22/24 15:43	10/23/24 19:52	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 15:43	10/23/24 19:52	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 15:43	10/23/24 19:52	1
Sodium	**12000**		200	77	ug/L		10/22/24 15:43	10/23/24 19:52	1
Strontium	**530**		4.0	0.64	ug/L		10/22/24 15:43	10/23/24 19:52	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 15:43	10/23/24 19:52	1
Tin	**3.7**	**J**	5.0	1.3	ug/L		10/22/24 15:43	10/23/24 19:52	1
Vanadium	**8.1**		5.0	2.2	ug/L		10/22/24 15:43	10/23/24 19:52	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 15:43	10/23/24 19:52	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**240**		0.91	0.46	mg/L		10/22/24 15:43	10/24/24 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			10/05/24 06:55	1
Nitrate as N (EPA 300.0)	**0.48**	**J H B**	1.0	0.043	mg/L			10/05/24 06:55	1
Chloride (EPA 300.0)	**21**		1.0	0.12	mg/L			10/05/24 06:55	1
Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			10/05/24 06:55	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			10/05/24 06:55	1
Nitrate Nitrite as N (EPA 300.0)	**0.48**	**J H B**	1.0	0.070	mg/L			10/05/24 06:55	1
Sulfate (EPA 300.0)	**1.8**		1.0	0.21	mg/L			10/05/24 06:55	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/13/24 10:49	10/14/24 14:13	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: MW-37_20241002
Date Collected: 10/02/24 10:30
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/23/24 12:12	10/25/24 15:54	1
Phosphorus as P (EPA 365.1)	**0.22**		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:30	1
Alkalinity (SM 2320B)	**210**		5.0	3.7	mg/L			10/15/24 15:13	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**210**		5.0	3.7	mg/L			10/15/24 15:13	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/15/24 15:13	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/28/24 07:34	1
Total Dissolved Solids (SM 2540C)	**300**		10	4.3	mg/L			10/08/24 00:09	1
Total Suspended Solids (SM 2540D)	**19**		5.0	1.9	mg/L			10/09/24 16:24	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/08/24 02:42	1
Total Organic Carbon (SM 5310C)	**1.4**		1.0	0.47	mg/L			10/18/24 14:59	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: MW-37_20241002-FBLL
Date Collected: 10/02/24 10:30
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 16:27	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: SMW-3_20241002

Date Collected: 10/02/24 11:50
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-3

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/17/24 11:54	10/18/24 15:42	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/17/24 11:54	10/18/24 15:52	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.28**	**J**	0.50	0.20	ng/L			10/10/24 16:39	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.34**	**J**	0.50	0.20	ng/L			10/10/24 16:43	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.046**	**J**	0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 19:43	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.037**	**J**	0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 19:12	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**25**	**J**	100	25	ug/L		10/22/24 15:43	10/23/24 19:56	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 15:43	10/23/24 19:56	1
Arsenic	**1.3**		1.0	0.23	ug/L		10/22/24 15:43	10/23/24 19:56	1
Barium	**33**		2.5	0.73	ug/L		10/22/24 15:43	10/23/24 19:56	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 15:43	10/24/24 12:13	1
Boron	**270**	**B**	50	13	ug/L		10/22/24 15:43	10/24/24 12:13	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 15:43	10/23/24 19:56	1
Calcium	**11000**		200	44	ug/L		10/22/24 15:43	10/24/24 12:13	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 15:43	10/23/24 19:56	1
Cobalt	<0.40		1.0	0.40	ug/L		10/22/24 15:43	10/23/24 19:56	1
Copper	<0.50		2.0	0.50	ug/L		10/22/24 15:43	10/23/24 19:56	1
Iron	<47		100	47	ug/L		10/22/24 15:43	10/23/24 19:56	1
Lead	<0.19		0.50	0.19	ug/L		10/22/24 15:43	10/23/24 19:56	1
Lithium	<2.5		10	2.5	ug/L		10/22/24 15:43	10/23/24 19:56	1
Magnesium	**1700**		200	49	ug/L		10/22/24 15:43	10/23/24 19:56	1
Manganese	**15**		2.5	0.79	ug/L		10/22/24 15:43	10/23/24 19:56	1
Molybdenum	**17**		5.0	2.5	ug/L		10/22/24 15:43	10/23/24 19:56	1
Nickel	<0.63		2.0	0.63	ug/L		10/22/24 15:43	10/23/24 19:56	1
Potassium	**960**		500	110	ug/L		10/22/24 15:43	10/23/24 19:56	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 15:43	10/23/24 19:56	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 15:43	10/23/24 19:56	1
Sodium	**43000**		200	77	ug/L		10/22/24 15:43	10/23/24 19:56	1
Strontium	**120**		4.0	0.64	ug/L		10/22/24 15:43	10/23/24 19:56	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 15:43	10/23/24 19:56	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 15:43	10/23/24 19:56	1
Vanadium	<2.2		5.0	2.2	ug/L		10/22/24 15:43	10/23/24 19:56	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 15:43	10/23/24 19:56	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: SMW-3_20241002

Date Collected: 10/02/24 11:50
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-3

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/22/24 16:14	10/23/24 18:48	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 16:14	10/23/24 18:48	1
Arsenic	**1.4**	**B**	1.0	0.23	ug/L		10/22/24 16:14	10/23/24 18:48	1
Barium	**34**		2.5	0.73	ug/L		10/22/24 16:14	10/23/24 18:48	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 16:14	10/24/24 12:48	1
Boron	**280**	**B**	50	13	ug/L		10/22/24 16:14	10/24/24 12:48	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 16:14	10/23/24 18:48	1
Calcium	**11000**		200	44	ug/L		10/22/24 16:14	10/24/24 12:48	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 16:14	10/23/24 18:48	1
Cobalt	<0.40		1.0	0.40	ug/L		10/22/24 16:14	10/23/24 18:48	1
Copper	<0.50		2.0	0.50	ug/L		10/22/24 16:14	10/23/24 18:48	1
Iron	<47		100	47	ug/L		10/22/24 16:14	10/23/24 18:48	1
Lead	<0.19		0.50	0.19	ug/L		10/22/24 16:14	10/23/24 18:48	1
Lithium	<2.5		10	2.5	ug/L		10/22/24 16:14	10/23/24 18:48	1
Magnesium	**1700**	**B**	200	49	ug/L		10/22/24 16:14	10/23/24 18:48	1
Manganese	**13**		2.5	0.79	ug/L		10/22/24 16:14	10/23/24 18:48	1
Molybdenum	**17**		5.0	2.5	ug/L		10/22/24 16:14	10/23/24 18:48	1
Nickel	<0.63		2.0	0.63	ug/L		10/22/24 16:14	10/23/24 18:48	1
Potassium	**970**		500	110	ug/L		10/22/24 16:14	10/23/24 18:48	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 16:14	10/23/24 18:48	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 16:14	10/23/24 18:48	1
Sodium	**42000**		200	77	ug/L		10/22/24 16:14	10/23/24 18:48	1
Strontium	**120**	**B**	4.0	0.64	ug/L		10/22/24 16:14	10/23/24 18:48	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 16:14	10/23/24 18:48	1
Tin	**3.4**	**J**	5.0	1.3	ug/L		10/22/24 16:14	10/23/24 18:48	1
Vanadium	**3.7**	**J B**	5.0	2.2	ug/L		10/22/24 16:14	10/23/24 18:48	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 16:14	10/23/24 18:48	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**35**		0.91	0.46	mg/L		10/22/24 15:43	10/24/24 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			10/05/24 06:40	1
Nitrate as N (EPA 300.0)	<0.043	H	1.0	0.043	mg/L			10/05/24 06:40	1
Chloride (EPA 300.0)	**43**		1.0	0.12	mg/L			10/05/24 06:40	1
Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			10/05/24 06:40	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			10/05/24 06:40	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			10/05/24 06:40	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			10/05/24 06:40	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/13/24 10:49	10/14/24 14:13	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/23/24 12:12	10/25/24 15:54	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:31	1
Alkalinity (SM 2320B)	**74**		5.0	3.7	mg/L			10/15/24 15:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**74**		5.0	3.7	mg/L			10/15/24 15:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/15/24 15:32	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: SMW-3_20241002
Date Collected: 10/02/24 11:50
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**160**		10	4.3	mg/L			10/08/24 00:12	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/09/24 16:25	1
Sulfide (SM 4500 S2 F)	**1.1**		1.0	0.23	mg/L			10/08/24 02:46	1
Total Organic Carbon (SM 5310C)	**2.7**		1.0	0.47	mg/L			10/18/24 15:27	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**2.6**		1.0	0.47	mg/L			10/20/24 07:44	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: SMW-3_20241002-FBLL

Date Collected: 10/02/24 11:50
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-4

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 16:47	1

Client Sample ID: DUP-01-GW_20241002
Date Collected: 10/02/24 23:59
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-5
Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/17/24 11:54	10/18/24 16:02	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/17/24 11:54	10/18/24 16:12	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.34**	**J**	0.50	0.20	ng/L			10/10/24 16:52	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.34**	**J**	0.50	0.20	ng/L			10/10/24 16:56	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.036**	**J**	0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 19:47	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.037**	**J**	0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 19:15	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/22/24 15:43	10/23/24 20:00	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 15:43	10/23/24 20:00	1
Arsenic	**1.2**		1.0	0.23	ug/L		10/22/24 15:43	10/23/24 20:00	1
Barium	**32**		2.5	0.73	ug/L		10/22/24 15:43	10/23/24 20:00	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 15:43	10/24/24 12:15	1
Boron	**260**	**B**	50	13	ug/L		10/22/24 15:43	10/24/24 12:15	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 15:43	10/23/24 20:00	1
Calcium	**11000**		200	44	ug/L		10/22/24 15:43	10/24/24 12:15	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 15:43	10/23/24 20:00	1
Cobalt	<0.40		1.0	0.40	ug/L		10/22/24 15:43	10/23/24 20:00	1
Copper	<0.50		2.0	0.50	ug/L		10/22/24 15:43	10/23/24 20:00	1
Iron	<47		100	47	ug/L		10/22/24 15:43	10/23/24 20:00	1
Lead	<0.19		0.50	0.19	ug/L		10/22/24 15:43	10/23/24 20:00	1
Lithium	<2.5		10	2.5	ug/L		10/22/24 15:43	10/23/24 20:00	1
Magnesium	**1700**		200	49	ug/L		10/22/24 15:43	10/23/24 20:00	1
Manganese	**15**		2.5	0.79	ug/L		10/22/24 15:43	10/23/24 20:00	1
Molybdenum	**17**		5.0	2.5	ug/L		10/22/24 15:43	10/23/24 20:00	1
Nickel	<0.63		2.0	0.63	ug/L		10/22/24 15:43	10/23/24 20:00	1
Potassium	**930**		500	110	ug/L		10/22/24 15:43	10/23/24 20:00	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 15:43	10/23/24 20:00	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 15:43	10/23/24 20:00	1
Sodium	**42000**		200	77	ug/L		10/22/24 15:43	10/23/24 20:00	1
Strontium	**120**		4.0	0.64	ug/L		10/22/24 15:43	10/23/24 20:00	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 15:43	10/23/24 20:00	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 15:43	10/23/24 20:00	1
Vanadium	<2.2		5.0	2.2	ug/L		10/22/24 15:43	10/23/24 20:00	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 15:43	10/23/24 20:00	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: DUP-01-GW_20241002

Date Collected: 10/02/24 23:59
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-5

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/22/24 16:14	10/23/24 18:52	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 16:14	10/23/24 18:52	1
Arsenic	**1.3**	**B**	1.0	0.23	ug/L		10/22/24 16:14	10/23/24 18:52	1
Barium	**33**		2.5	0.73	ug/L		10/22/24 16:14	10/23/24 18:52	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 16:14	10/24/24 12:50	1
Boron	**270**	**B**	50	13	ug/L		10/22/24 16:14	10/24/24 12:50	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 16:14	10/23/24 18:52	1
Calcium	**11000**		200	44	ug/L		10/22/24 16:14	10/24/24 12:50	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 16:14	10/23/24 18:52	1
Cobalt	<0.40		1.0	0.40	ug/L		10/22/24 16:14	10/23/24 18:52	1
Copper	<0.50		2.0	0.50	ug/L		10/22/24 16:14	10/23/24 18:52	1
Iron	<47		100	47	ug/L		10/22/24 16:14	10/23/24 18:52	1
Lead	<0.19		0.50	0.19	ug/L		10/22/24 16:14	10/23/24 18:52	1
Lithium	<2.5		10	2.5	ug/L		10/22/24 16:14	10/23/24 18:52	1
Magnesium	**1700**	**B**	200	49	ug/L		10/22/24 16:14	10/23/24 18:52	1
Manganese	**13**		2.5	0.79	ug/L		10/22/24 16:14	10/23/24 18:52	1
Molybdenum	**16**		5.0	2.5	ug/L		10/22/24 16:14	10/23/24 18:52	1
Nickel	<0.63		2.0	0.63	ug/L		10/22/24 16:14	10/23/24 18:52	1
Potassium	**970**		500	110	ug/L		10/22/24 16:14	10/23/24 18:52	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 16:14	10/23/24 18:52	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 16:14	10/23/24 18:52	1
Sodium	**42000**		200	77	ug/L		10/22/24 16:14	10/23/24 18:52	1
Strontium	**120**	**B**	4.0	0.64	ug/L		10/22/24 16:14	10/23/24 18:52	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 16:14	10/23/24 18:52	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 16:14	10/23/24 18:52	1
Vanadium	**3.7**	**J B**	5.0	2.2	ug/L		10/22/24 16:14	10/23/24 18:52	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 16:14	10/23/24 18:52	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**33**		0.91	0.46	mg/L		10/22/24 15:43	10/24/24 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.18**	**J**	1.0	0.18	mg/L			10/04/24 13:44	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			10/04/24 13:44	1
Chloride (EPA 300.0)	**43**		1.0	0.12	mg/L			10/04/24 13:44	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/04/24 13:44	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			10/04/24 13:44	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/04/24 13:44	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			10/04/24 13:44	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/13/24 10:49	10/14/24 14:14	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/23/24 12:12	10/25/24 15:55	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:32	1
Alkalinity (SM 2320B)	**69**		5.0	3.7	mg/L			10/15/24 15:43	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**69**		5.0	3.7	mg/L			10/15/24 15:43	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/15/24 15:43	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: DUP-01-GW_20241002
Date Collected: 10/02/24 23:59
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-5
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**140**		10	4.3	mg/L			10/08/24 00:14	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/09/24 16:26	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/08/24 02:51	1
Total Organic Carbon (SM 5310C)	**2.7**		1.0	0.47	mg/L			10/18/24 15:55	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**2.7**		1.0	0.47	mg/L			10/20/24 07:44	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: DUP-01-GW_20241002-FBLL

Lab Sample ID: 500-257876-6

Date Collected: 10/02/24 23:59
Matrix: Water
Date Received: 10/04/24 09:00

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 17:00	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: NB1-3_20241002

Date Collected: 10/02/24 12:15
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-7

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/17/24 11:54	10/18/24 16:22	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/17/24 11:54	10/18/24 16:33	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.0**		0.50	0.20	ng/L			10/10/24 17:04	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.34**	**J**	0.50	0.20	ng/L			10/10/24 17:08	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 19:50	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 19:26	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**64**	**J**	100	25	ug/L		10/22/24 15:43	10/23/24 20:04	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 15:43	10/23/24 20:04	1
Arsenic	**2.3**		1.0	0.23	ug/L		10/22/24 15:43	10/23/24 20:04	1
Barium	**460**		2.5	0.73	ug/L		10/22/24 15:43	10/23/24 20:04	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 15:43	10/24/24 12:18	1
Boron	**1200**	**B**	50	13	ug/L		10/22/24 15:43	10/24/24 12:18	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 15:43	10/23/24 20:04	1
Calcium	**67000**		200	44	ug/L		10/22/24 15:43	10/24/24 12:18	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 15:43	10/23/24 20:04	1
Cobalt	<0.40		1.0	0.40	ug/L		10/22/24 15:43	10/23/24 20:04	1
Copper	**3.2**		2.0	0.50	ug/L		10/22/24 15:43	10/23/24 20:04	1
Iron	**1100**		100	47	ug/L		10/22/24 15:43	10/23/24 20:04	1
Lead	<0.19		0.50	0.19	ug/L		10/22/24 15:43	10/23/24 20:04	1
Lithium	**16**		10	2.5	ug/L		10/22/24 15:43	10/23/24 20:04	1
Magnesium	**4300**		200	49	ug/L		10/22/24 15:43	10/23/24 20:04	1
Manganese	**170**		2.5	0.79	ug/L		10/22/24 15:43	10/23/24 20:04	1
Molybdenum	**15**		5.0	2.5	ug/L		10/22/24 15:43	10/23/24 20:04	1
Nickel	<0.63		2.0	0.63	ug/L		10/22/24 15:43	10/23/24 20:04	1
Potassium	**11000**		500	110	ug/L		10/22/24 15:43	10/23/24 20:04	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 15:43	10/23/24 20:04	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 15:43	10/23/24 20:04	1
Sodium	**110000**		200	77	ug/L		10/22/24 15:43	10/23/24 20:04	1
Strontium	**1000**		4.0	0.64	ug/L		10/22/24 15:43	10/23/24 20:04	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 15:43	10/23/24 20:04	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 15:43	10/23/24 20:04	1
Vanadium	<2.2		5.0	2.2	ug/L		10/22/24 15:43	10/23/24 20:04	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 15:43	10/23/24 20:04	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: NB1-3_20241002

Date Collected: 10/02/24 12:15
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-7

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/22/24 16:14	10/23/24 19:03	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 16:14	10/23/24 19:03	1
Arsenic	**2.4**	**B**	1.0	0.23	ug/L		10/22/24 16:14	10/23/24 19:03	1
Barium	**480**		2.5	0.73	ug/L		10/22/24 16:14	10/23/24 19:03	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 16:14	10/24/24 12:53	1
Boron	**1200**	**B**	50	13	ug/L		10/22/24 16:14	10/24/24 12:53	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 16:14	10/23/24 19:03	1
Calcium	**66000**		200	44	ug/L		10/22/24 16:14	10/24/24 12:53	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 16:14	10/23/24 19:03	1
Cobalt	<0.40		1.0	0.40	ug/L		10/22/24 16:14	10/23/24 19:03	1
Copper	<0.50		2.0	0.50	ug/L		10/22/24 16:14	10/23/24 19:03	1
Iron	**780**		100	47	ug/L		10/22/24 16:14	10/23/24 19:03	1
Lead	<0.19		0.50	0.19	ug/L		10/22/24 16:14	10/23/24 19:03	1
Lithium	**17**		10	2.5	ug/L		10/22/24 16:14	10/23/24 19:03	1
Magnesium	**4100**	**B**	200	49	ug/L		10/22/24 16:14	10/23/24 19:03	1
Manganese	**160**		2.5	0.79	ug/L		10/22/24 16:14	10/23/24 19:03	1
Molybdenum	**15**		5.0	2.5	ug/L		10/22/24 16:14	10/23/24 19:03	1
Nickel	<0.63		2.0	0.63	ug/L		10/22/24 16:14	10/23/24 19:03	1
Potassium	**11000**		500	110	ug/L		10/22/24 16:14	10/23/24 19:03	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 16:14	10/23/24 19:03	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 16:14	10/23/24 19:03	1
Sodium	**100000**		200	77	ug/L		10/22/24 16:14	10/23/24 19:03	1
Strontium	**1100**	**B**	4.0	0.64	ug/L		10/22/24 16:14	10/23/24 19:03	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 16:14	10/23/24 19:03	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 16:14	10/23/24 19:03	1
Vanadium	**2.2**	**J B**	5.0	2.2	ug/L		10/22/24 16:14	10/23/24 19:03	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 16:14	10/23/24 19:03	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**190**		0.91	0.46	mg/L		10/22/24 15:43	10/24/24 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**2.3**		1.0	0.18	mg/L			10/05/24 06:24	1
Nitrate as N (EPA 300.0)	<0.043	H	1.0	0.043	mg/L			10/05/24 06:24	1
Chloride (EPA 300.0)	**240**		10	1.2	mg/L			10/17/24 07:00	10
Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			10/05/24 06:24	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			10/05/24 06:24	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			10/05/24 06:24	1
Sulfate (EPA 300.0)	**0.24**	**J**	1.0	0.21	mg/L			10/05/24 06:24	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/13/24 10:49	10/14/24 14:14	1
Ammonia (EPA 350.1)	**0.56**		0.20	0.10	mg/L		10/23/24 12:12	10/25/24 15:56	1
Phosphorus as P (EPA 365.1)	**0.14**		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:15	1
Alkalinity (SM 2320B)	**73**		5.0	3.7	mg/L			10/15/24 15:53	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**73**		5.0	3.7	mg/L			10/15/24 15:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/15/24 15:53	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: NB1-3_20241002
Date Collected: 10/02/24 12:15
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-7
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	540		10	4.3	mg/L			10/08/24 00:17	1
Total Suspended Solids (SM 2540D)	8.2		5.0	1.9	mg/L			10/09/24 16:28	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/08/24 02:56	1
Total Organic Carbon (SM 5310C)	3.4		1.0	0.47	mg/L			10/18/24 16:23	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	3.8		1.0	0.47	mg/L			10/20/24 07:44	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: NB1-3_20241002-FBLL

Date Collected: 10/02/24 12:15
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-8

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 17:12	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: CBR-02_20241003

Date Collected: 10/03/24 09:45
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-9

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.060**	**B**	0.050	0.022	ng/L		10/17/24 11:54	10/18/24 16:43	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.050**		0.050	0.022	ng/L		10/23/24 11:27	10/24/24 17:14	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.65**		0.50	0.20	ng/L			10/10/24 17:17	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.68**		0.50	0.20	ng/L			10/10/24 17:29	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.28**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 19:54	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.29**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 19:29	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**42**	**J**	100	25	ug/L		10/22/24 15:43	10/23/24 20:08	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 15:43	10/23/24 20:08	1
Arsenic	**0.49**	**J**	1.0	0.23	ug/L		10/22/24 15:43	10/23/24 20:08	1
Barium	**73**		2.5	0.73	ug/L		10/22/24 15:43	10/23/24 20:08	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 15:43	10/24/24 12:20	1
Boron	**69**	**B**	50	13	ug/L		10/22/24 15:43	10/24/24 12:20	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 15:43	10/23/24 20:08	1
Calcium	**30000**		200	44	ug/L		10/22/24 15:43	10/24/24 12:20	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 15:43	10/23/24 20:08	1
Cobalt	<0.40		1.0	0.40	ug/L		10/22/24 15:43	10/23/24 20:08	1
Copper	**3.2**		2.0	0.50	ug/L		10/22/24 15:43	10/23/24 20:08	1
Iron	**330**		100	47	ug/L		10/22/24 15:43	10/23/24 20:08	1
Lead	<0.19		0.50	0.19	ug/L		10/22/24 15:43	10/23/24 20:08	1
Lithium	<2.5		10	2.5	ug/L		10/22/24 15:43	10/23/24 20:08	1
Magnesium	**6400**		200	49	ug/L		10/22/24 15:43	10/23/24 20:08	1
Manganese	**12**		2.5	0.79	ug/L		10/22/24 15:43	10/23/24 20:08	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/22/24 15:43	10/23/24 20:08	1
Nickel	<0.63		2.0	0.63	ug/L		10/22/24 15:43	10/23/24 20:08	1
Potassium	**1500**		500	110	ug/L		10/22/24 15:43	10/23/24 20:08	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 15:43	10/23/24 20:08	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 15:43	10/23/24 20:08	1
Sodium	**9900**		200	77	ug/L		10/22/24 15:43	10/23/24 20:08	1
Strontium	**170**		4.0	0.64	ug/L		10/22/24 15:43	10/23/24 20:08	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 15:43	10/23/24 20:08	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 15:43	10/23/24 20:08	1
Vanadium	<2.2		5.0	2.2	ug/L		10/22/24 15:43	10/23/24 20:08	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 15:43	10/23/24 20:08	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: CBR-02_20241003

Date Collected: 10/03/24 09:45
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-9

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/22/24 16:14	10/23/24 19:07	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 16:14	10/23/24 19:07	1
Arsenic	**0.57**	**J B**	1.0	0.23	ug/L		10/22/24 16:14	10/23/24 19:07	1
Barium	**73**		2.5	0.73	ug/L		10/22/24 16:14	10/23/24 19:07	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 16:14	10/24/24 12:55	1
Boron	**70**	**B**	50	13	ug/L		10/22/24 16:14	10/24/24 12:55	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 16:14	10/23/24 19:07	1
Calcium	**28000**		200	44	ug/L		10/22/24 16:14	10/24/24 12:55	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 16:14	10/23/24 19:07	1
Cobalt	<0.40		1.0	0.40	ug/L		10/22/24 16:14	10/23/24 19:07	1
Copper	**1.2**	**J**	2.0	0.50	ug/L		10/22/24 16:14	10/23/24 19:07	1
Iron	**110**		100	47	ug/L		10/22/24 16:14	10/23/24 19:07	1
Lead	<0.19		0.50	0.19	ug/L		10/22/24 16:14	10/23/24 19:07	1
Lithium	<2.5		10	2.5	ug/L		10/22/24 16:14	10/23/24 19:07	1
Magnesium	**6200**	**B**	200	49	ug/L		10/22/24 16:14	10/23/24 19:07	1
Manganese	**8.9**		2.5	0.79	ug/L		10/22/24 16:14	10/23/24 19:07	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/22/24 16:14	10/23/24 19:07	1
Nickel	<0.63		2.0	0.63	ug/L		10/22/24 16:14	10/23/24 19:07	1
Potassium	**1500**		500	110	ug/L		10/22/24 16:14	10/23/24 19:07	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 16:14	10/23/24 19:07	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 16:14	10/23/24 19:07	1
Sodium	**9600**		200	77	ug/L		10/22/24 16:14	10/23/24 19:07	1
Strontium	**170**	**B**	4.0	0.64	ug/L		10/22/24 16:14	10/23/24 19:07	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 16:14	10/23/24 19:07	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 16:14	10/23/24 19:07	1
Vanadium	**2.3**	**J B**	5.0	2.2	ug/L		10/22/24 16:14	10/23/24 19:07	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 16:14	10/23/24 19:07	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**100**		0.91	0.46	mg/L		10/22/24 15:43	10/24/24 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			10/05/24 05:37	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			10/05/24 05:37	1
Chloride (EPA 300.0)	**23**		1.0	0.12	mg/L			10/05/24 05:37	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/05/24 05:37	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			10/05/24 05:37	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/05/24 05:37	1
Sulfate (EPA 300.0)	**1.3**		1.0	0.21	mg/L			10/05/24 05:37	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/13/24 10:49	10/14/24 14:16	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/23/24 12:12	10/25/24 15:56	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:16	1
Alkalinity (SM 2320B)	**90**		5.0	3.7	mg/L			10/15/24 20:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**90**		5.0	3.7	mg/L			10/15/24 20:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/15/24 20:04	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: CBR-02_20241003
Date Collected: 10/03/24 09:45
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-9
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**140**		10	4.3	mg/L			10/08/24 00:19	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/10/24 15:41	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/08/24 03:00	1
Total Organic Carbon (SM 5310C)	**6.2**		1.0	0.47	mg/L			10/18/24 16:51	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**6.2**		1.0	0.47	mg/L			10/20/24 07:44	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: CBR-02_20241003-FBLL

Date Collected: 10/03/24 09:45
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-10

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 17:33	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: EB-01-GW_20241002

Date Collected: 10/02/24 17:00
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-11

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/23/24 11:27	10/24/24 17:25	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.31**	**J**	0.50	0.20	ng/L			10/10/24 17:37	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 19:57	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/22/24 15:43	10/23/24 20:11	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 15:43	10/23/24 20:11	1
Arsenic	<0.23		1.0	0.23	ug/L		10/22/24 15:43	10/23/24 20:11	1
Barium	<0.73		2.5	0.73	ug/L		10/22/24 15:43	10/23/24 20:11	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 15:43	10/24/24 12:22	1
Boron	<13		50	13	ug/L		10/22/24 15:43	10/24/24 12:22	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 15:43	10/23/24 20:11	1
Calcium	<44		200	44	ug/L		10/22/24 15:43	10/24/24 12:22	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 15:43	10/23/24 20:11	1
Cobalt	<0.40		1.0	0.40	ug/L		10/22/24 15:43	10/23/24 20:11	1
Copper	<0.50		2.0	0.50	ug/L		10/22/24 15:43	10/23/24 20:11	1
Iron	<47		100	47	ug/L		10/22/24 15:43	10/23/24 20:11	1
Lead	<0.19		0.50	0.19	ug/L		10/22/24 15:43	10/23/24 20:11	1
Lithium	<2.5		10	2.5	ug/L		10/22/24 15:43	10/23/24 20:11	1
Magnesium	<49		200	49	ug/L		10/22/24 15:43	10/23/24 20:11	1
Manganese	<0.79		2.5	0.79	ug/L		10/22/24 15:43	10/23/24 20:11	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/22/24 15:43	10/23/24 20:11	1
Nickel	<0.63		2.0	0.63	ug/L		10/22/24 15:43	10/23/24 20:11	1
Potassium	<110		500	110	ug/L		10/22/24 15:43	10/23/24 20:11	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 15:43	10/23/24 20:11	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 15:43	10/23/24 20:11	1
Sodium	<77		200	77	ug/L		10/22/24 15:43	10/23/24 20:11	1
Strontium	<0.64		4.0	0.64	ug/L		10/22/24 15:43	10/23/24 20:11	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 15:43	10/23/24 20:11	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 15:43	10/23/24 20:11	1
Vanadium	<2.2		5.0	2.2	ug/L		10/22/24 15:43	10/23/24 20:11	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 15:43	10/23/24 20:11	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	<0.46		0.91	0.46	mg/L		10/22/24 15:43	10/24/24 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			10/04/24 13:28	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			10/04/24 13:28	1
Chloride (EPA 300.0)	<0.12		1.0	0.12	mg/L			10/04/24 13:28	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/04/24 13:28	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			10/04/24 13:28	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: EB-01-GW_20241002
Date Collected: 10/02/24 17:00
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-11
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/04/24 13:28	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			10/04/24 13:28	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/13/24 10:49	10/14/24 14:17	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/23/24 12:12	10/25/24 15:57	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:17	1
Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			10/15/24 16:17	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/15/24 16:17	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/15/24 16:17	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/28/24 07:34	1
Total Dissolved Solids (SM 2540C)	**10**		10	4.3	mg/L			10/08/24 00:22	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/09/24 16:29	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/08/24 03:05	1
Total Organic Carbon (SM 5310C)	<0.47		1.0	0.47	mg/L			10/18/24 17:19	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: EB-01-GW_20241002-FBLL

Lab Sample ID: 500-257876-12

Date Collected: 10/02/24 17:00

Matrix: Water

Date Received: 10/04/24 09:00

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 17:41	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: NB1-1_20241002

Date Collected: 10/02/24 13:30
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-13

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.032**	**J**	0.050	0.022	ng/L		10/23/24 11:27	10/24/24 17:35	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/23/24 11:27	10/24/24 17:45	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.9**		0.50	0.20	ng/L			10/10/24 17:46	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.42**	**J**	0.50	0.20	ng/L			10/10/24 15:37	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.015**	**J**	0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 20:08	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 19:33	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**270**		100	25	ug/L		10/22/24 15:43	10/23/24 20:15	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 15:43	10/23/24 20:15	1
Arsenic	**1.1**		1.0	0.23	ug/L		10/22/24 15:43	10/23/24 20:15	1
Barium	**620**		2.5	0.73	ug/L		10/22/24 15:43	10/23/24 20:15	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 15:43	10/24/24 12:25	1
Boron	**1300**	**B**	50	13	ug/L		10/22/24 15:43	10/24/24 12:25	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 15:43	10/23/24 20:15	1
Calcium	**69000**		200	44	ug/L		10/22/24 15:43	10/24/24 12:25	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 15:43	10/23/24 20:15	1
Cobalt	<0.40		1.0	0.40	ug/L		10/22/24 15:43	10/23/24 20:15	1
Copper	**16**		2.0	0.50	ug/L		10/22/24 15:43	10/23/24 20:15	1
Iron	**2600**		100	47	ug/L		10/22/24 15:43	10/23/24 20:15	1
Lead	**1.0**		0.50	0.19	ug/L		10/22/24 15:43	10/23/24 20:15	1
Lithium	**16**		10	2.5	ug/L		10/22/24 15:43	10/23/24 20:15	1
Magnesium	**10000**		200	49	ug/L		10/22/24 15:43	10/23/24 20:15	1
Manganese	**120**		2.5	0.79	ug/L		10/22/24 15:43	10/23/24 20:15	1
Molybdenum	**3.6**	**J**	5.0	2.5	ug/L		10/22/24 15:43	10/23/24 20:15	1
Nickel	**0.98**	**J**	2.0	0.63	ug/L		10/22/24 15:43	10/23/24 20:15	1
Potassium	**12000**		500	110	ug/L		10/22/24 15:43	10/23/24 20:15	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 15:43	10/23/24 20:15	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 15:43	10/23/24 20:15	1
Sodium	**120000**		200	77	ug/L		10/22/24 15:43	10/23/24 20:15	1
Strontium	**1300**		4.0	0.64	ug/L		10/22/24 15:43	10/23/24 20:15	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 15:43	10/23/24 20:15	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 15:43	10/23/24 20:15	1
Vanadium	**2.4**	**J**	5.0	2.2	ug/L		10/22/24 15:43	10/23/24 20:15	1
Zinc	**9.3**	**J**	20	6.9	ug/L		10/22/24 15:43	10/23/24 20:15	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: NB1-1_20241002

Date Collected: 10/02/24 13:30
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-13

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/22/24 16:14	10/23/24 19:11	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 16:14	10/23/24 19:11	1
Arsenic	**1.3**	**B**	1.0	0.23	ug/L		10/22/24 16:14	10/23/24 19:11	1
Barium	**670**		2.5	0.73	ug/L		10/22/24 16:14	10/23/24 19:11	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 16:14	10/24/24 12:57	1
Boron	**1400**	**B**	50	13	ug/L		10/22/24 16:14	10/24/24 12:57	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 16:14	10/23/24 19:11	1
Calcium	**74000**		200	44	ug/L		10/22/24 16:14	10/24/24 12:57	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 16:14	10/23/24 19:11	1
Cobalt	<0.40		1.0	0.40	ug/L		10/22/24 16:14	10/23/24 19:11	1
Copper	**0.55**	**J**	2.0	0.50	ug/L		10/22/24 16:14	10/23/24 19:11	1
Iron	**250**		100	47	ug/L		10/22/24 16:14	10/23/24 19:11	1
Lead	<0.19		0.50	0.19	ug/L		10/22/24 16:14	10/23/24 19:11	1
Lithium	**19**		10	2.5	ug/L		10/22/24 16:14	10/23/24 19:11	1
Magnesium	**10000**	**B**	200	49	ug/L		10/22/24 16:14	10/23/24 19:11	1
Manganese	**110**		2.5	0.79	ug/L		10/22/24 16:14	10/23/24 19:11	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/22/24 16:14	10/23/24 19:11	1
Nickel	<0.63		2.0	0.63	ug/L		10/22/24 16:14	10/23/24 19:11	1
Potassium	**13000**		500	110	ug/L		10/22/24 16:14	10/23/24 19:11	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 16:14	10/23/24 19:11	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 16:14	10/23/24 19:11	1
Sodium	**130000**		200	77	ug/L		10/22/24 16:14	10/23/24 19:11	1
Strontium	**1400**	**B**	4.0	0.64	ug/L		10/22/24 16:14	10/23/24 19:11	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 16:14	10/23/24 19:11	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 16:14	10/23/24 19:11	1
Vanadium	**2.7**	**J B**	5.0	2.2	ug/L		10/22/24 16:14	10/23/24 19:11	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 16:14	10/23/24 19:11	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**210**		0.91	0.46	mg/L		10/22/24 15:43	10/24/24 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**2.2**		1.0	0.18	mg/L			10/04/24 12:10	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			10/04/24 12:10	1
Chloride (EPA 300.0)	**240**		10	1.2	mg/L			10/17/24 07:46	10
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/04/24 12:10	1
Fluoride (EPA 300.0)	**0.39**	**J**	1.0	0.19	mg/L			10/04/24 12:10	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/04/24 12:10	1
Sulfate (EPA 300.0)	**17**		1.0	0.21	mg/L			10/04/24 12:10	1
Cyanide, Total (EPA 335.4)	**0.0050**		0.0050	0.0036	mg/L		10/15/24 11:53	10/15/24 16:15	1
Ammonia (EPA 350.1)	**0.68**		0.20	0.10	mg/L		10/23/24 12:12	10/25/24 15:57	1
Phosphorus as P (EPA 365.1)	**0.081**		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:17	1
Alkalinity (SM 2320B)	**130**		5.0	3.7	mg/L			10/15/24 16:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**130**		5.0	3.7	mg/L			10/15/24 16:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/15/24 16:49	1
Salinity (SM 2520B)	**0.40**		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: NB1-1_20241002
Date Collected: 10/02/24 13:30
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-13
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	660		10	4.3	mg/L			10/08/24 00:25	1
Total Suspended Solids (SM 2540D)	51		13	4.8	mg/L			10/09/24 16:31	1
Sulfide (SM 4500 S2 F)	1.7		1.0	0.23	mg/L			10/08/24 03:10	1
Total Organic Carbon (SM 5310C)	4.0		1.0	0.47	mg/L			10/18/24 17:47	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	3.3		1.0	0.47	mg/L			10/20/24 07:44	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: NB1-1_20241002-FBLL

Date Collected: 10/02/24 13:30
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-14

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 15:49	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: SMW-1_20241002

Date Collected: 10/02/24 16:30
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-15

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/23/24 11:27	10/24/24 17:55	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/23/24 11:27	10/24/24 18:05	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.3**		0.50	0.20	ng/L			10/10/24 15:54	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.29**	**J**	0.50	0.20	ng/L			10/10/24 15:58	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**5.4**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 20:12	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**4.8**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 19:36	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/22/24 15:43	10/23/24 20:19	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 15:43	10/23/24 20:19	1
Arsenic	**1.3**		1.0	0.23	ug/L		10/22/24 15:43	10/23/24 20:19	1
Barium	**57**		2.5	0.73	ug/L		10/22/24 15:43	10/23/24 20:19	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 15:43	10/24/24 12:27	1
Boron	**1200**	**B**	50	13	ug/L		10/22/24 15:43	10/24/24 12:27	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 15:43	10/23/24 20:19	1
Calcium	**18000**		200	44	ug/L		10/22/24 15:43	10/24/24 12:27	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 15:43	10/23/24 20:19	1
Cobalt	<0.40		1.0	0.40	ug/L		10/22/24 15:43	10/23/24 20:19	1
Copper	**1.6**	**J**	2.0	0.50	ug/L		10/22/24 15:43	10/23/24 20:19	1
Iron	**69**	**J**	100	47	ug/L		10/22/24 15:43	10/23/24 20:19	1
Lead	<0.19		0.50	0.19	ug/L		10/22/24 15:43	10/23/24 20:19	1
Lithium	**10**		10	2.5	ug/L		10/22/24 15:43	10/23/24 20:19	1
Magnesium	**8500**		200	49	ug/L		10/22/24 15:43	10/23/24 20:19	1
Manganese	**14**		2.5	0.79	ug/L		10/22/24 15:43	10/23/24 20:19	1
Molybdenum	**6.3**		5.0	2.5	ug/L		10/22/24 15:43	10/23/24 20:19	1
Nickel	<0.63		2.0	0.63	ug/L		10/22/24 15:43	10/23/24 20:19	1
Potassium	**3200**		500	110	ug/L		10/22/24 15:43	10/23/24 20:19	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 15:43	10/23/24 20:19	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 15:43	10/23/24 20:19	1
Sodium	**55000**		200	77	ug/L		10/22/24 15:43	10/23/24 20:19	1
Strontium	**310**		4.0	0.64	ug/L		10/22/24 15:43	10/23/24 20:19	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 15:43	10/23/24 20:19	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 15:43	10/23/24 20:19	1
Vanadium	**2.6**	**J**	5.0	2.2	ug/L		10/22/24 15:43	10/23/24 20:19	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 15:43	10/23/24 20:19	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: SMW-1_20241002

Date Collected: 10/02/24 16:30
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-15

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4700**		100	25	ug/L		10/22/24 16:14	10/23/24 19:15	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 16:14	10/23/24 19:15	1
Arsenic	**1.9**	**B**	1.0	0.23	ug/L		10/22/24 16:14	10/23/24 19:15	1
Barium	**100**		2.5	0.73	ug/L		10/22/24 16:14	10/23/24 19:15	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 16:14	10/24/24 13:00	1
Boron	**1200**	**B**	50	13	ug/L		10/22/24 16:14	10/24/24 13:00	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 16:14	10/23/24 19:15	1
Calcium	**24000**		200	44	ug/L		10/22/24 16:14	10/24/24 13:00	1
Chromium	**6.1**		5.0	1.1	ug/L		10/22/24 16:14	10/23/24 19:15	1
Cobalt	**1.8**		1.0	0.40	ug/L		10/22/24 16:14	10/23/24 19:15	1
Copper	**6.0**		2.0	0.50	ug/L		10/22/24 16:14	10/23/24 19:15	1
Iron	**3700**		100	47	ug/L		10/22/24 16:14	10/23/24 19:15	1
Lead	**1.6**		0.50	0.19	ug/L		10/22/24 16:14	10/23/24 19:15	1
Lithium	**11**		10	2.5	ug/L		10/22/24 16:14	10/23/24 19:15	1
Magnesium	**11000**	**B**	200	49	ug/L		10/22/24 16:14	10/23/24 19:15	1
Manganese	**86**		2.5	0.79	ug/L		10/22/24 16:14	10/23/24 19:15	1
Molybdenum	**6.6**		5.0	2.5	ug/L		10/22/24 16:14	10/23/24 19:15	1
Nickel	**5.0**		2.0	0.63	ug/L		10/22/24 16:14	10/23/24 19:15	1
Potassium	**4600**		500	110	ug/L		10/22/24 16:14	10/23/24 19:15	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 16:14	10/23/24 19:15	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 16:14	10/23/24 19:15	1
Sodium	**54000**		200	77	ug/L		10/22/24 16:14	10/23/24 19:15	1
Strontium	**350**	**B**	4.0	0.64	ug/L		10/22/24 16:14	10/23/24 19:15	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 16:14	10/23/24 19:15	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 16:14	10/23/24 19:15	1
Vanadium	**11**	**B**	5.0	2.2	ug/L		10/22/24 16:14	10/23/24 19:15	1
Zinc	**13**	**J**	20	6.9	ug/L		10/22/24 16:14	10/23/24 19:15	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**80**		0.91	0.46	mg/L		10/22/24 15:43	10/24/24 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			10/04/24 13:13	1
Nitrate as N (EPA 300.0)	**0.50**	**J**	1.0	0.043	mg/L			10/04/24 13:13	1
Chloride (EPA 300.0)	**4.9**		1.0	0.12	mg/L			10/04/24 13:13	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/04/24 13:13	1
Fluoride (EPA 300.0)	**0.48**	**J**	1.0	0.19	mg/L			10/04/24 13:13	1
Nitrate Nitrite as N (EPA 300.0)	**0.50**	**J**	1.0	0.070	mg/L			10/04/24 13:13	1
Sulfate (EPA 300.0)	**14**		1.0	0.21	mg/L			10/04/24 13:13	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/13/24 10:49	10/14/24 14:18	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/23/24 12:12	10/25/24 15:58	1
Phosphorus as P (EPA 365.1)	**0.15**		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:17	1
Alkalinity (SM 2320B)	**180**		5.0	3.7	mg/L			10/15/24 17:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**180**		5.0	3.7	mg/L			10/15/24 17:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/15/24 17:00	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: SMW-1_20241002
Date Collected: 10/02/24 16:30
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-15
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	220		10	4.3	mg/L			10/08/24 00:27	1
Total Suspended Solids (SM 2540D)	89		17	6.4	mg/L			10/09/24 16:32	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/08/24 03:14	1
Total Organic Carbon (SM 5310C)	1.4		1.0	0.47	mg/L			10/18/24 21:31	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	1.3		1.0	0.47	mg/L			10/20/24 07:44	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: SMW-1_20241002-FBLL
Date Collected: 10/02/24 16:30
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-16
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 16:02	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: MW-5A_20241002

Date Collected: 10/02/24 15:00
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-17

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/17/24 11:54	10/18/24 14:00	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/17/24 11:54	10/18/24 14:30	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.58**		0.50	0.20	ng/L			10/10/24 11:57	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.30**	**J**	0.50	0.20	ng/L			10/10/24 12:01	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**11**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 16:55	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**12**		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 16:44	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/22/24 15:43	10/23/24 20:30	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 15:43	10/23/24 20:30	1
Arsenic	**0.64**	**J**	1.0	0.23	ug/L		10/22/24 15:43	10/23/24 20:30	1
Barium	**710**		2.5	0.73	ug/L		10/22/24 15:43	10/23/24 20:30	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 15:43	10/24/24 12:29	1
Boron	**190**	**B**	50	13	ug/L		10/22/24 15:43	10/24/24 12:29	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 15:43	10/23/24 20:30	1
Calcium	**180000**		200	44	ug/L		10/22/24 15:43	10/24/24 12:29	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 15:43	10/23/24 20:30	1
Cobalt	**0.46**	**J**	1.0	0.40	ug/L		10/22/24 15:43	10/23/24 20:30	1
Copper	**1.2**	**J**	2.0	0.50	ug/L		10/22/24 15:43	10/23/24 20:30	1
Iron	**70**	**J**	100	47	ug/L		10/22/24 15:43	10/23/24 20:30	1
Lead	<0.19		0.50	0.19	ug/L		10/22/24 15:43	10/23/24 20:30	1
Lithium	**57**		10	2.5	ug/L		10/22/24 15:43	10/23/24 20:30	1
Magnesium	**17000**		200	49	ug/L		10/22/24 15:43	10/23/24 20:30	1
Manganese	**1000**		2.5	0.79	ug/L		10/22/24 15:43	10/23/24 20:30	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/22/24 15:43	10/23/24 20:30	1
Nickel	**0.72**	**J**	2.0	0.63	ug/L		10/22/24 15:43	10/23/24 20:30	1
Potassium	**550**		500	110	ug/L		10/22/24 15:43	10/23/24 20:30	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 15:43	10/23/24 20:30	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 15:43	10/23/24 20:30	1
Sodium	**110000**	**^2**	200	77	ug/L		10/22/24 15:43	10/23/24 20:30	1
Strontium	**3300**		4.0	0.64	ug/L		10/22/24 15:43	10/23/24 20:30	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 15:43	10/23/24 20:30	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 15:43	10/23/24 20:30	1
Vanadium	<2.2		5.0	2.2	ug/L		10/22/24 15:43	10/23/24 20:30	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 15:43	10/23/24 20:30	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: MW-5A_20241002

Date Collected: 10/02/24 15:00
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-17

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/22/24 16:14	10/23/24 19:18	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 16:14	10/23/24 19:18	1
Arsenic	**0.73**	**J B**	1.0	0.23	ug/L		10/22/24 16:14	10/23/24 19:18	1
Barium	**560**		2.5	0.73	ug/L		10/22/24 16:14	10/23/24 19:18	1
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 16:14	10/24/24 13:07	1
Boron	**200**	**B**	50	13	ug/L		10/22/24 16:14	10/24/24 13:07	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 16:14	10/23/24 19:18	1
Calcium	**170000**		200	44	ug/L		10/22/24 16:14	10/24/24 13:07	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 16:14	10/23/24 19:18	1
Cobalt	<0.40		1.0	0.40	ug/L		10/22/24 16:14	10/23/24 19:18	1
Copper	**1.8**	**J**	2.0	0.50	ug/L		10/22/24 16:14	10/23/24 19:18	1
Iron	<47		100	47	ug/L		10/22/24 16:14	10/23/24 19:18	1
Lead	<0.19		0.50	0.19	ug/L		10/22/24 16:14	10/23/24 19:18	1
Lithium	**64**		10	2.5	ug/L		10/22/24 16:14	10/23/24 19:18	1
Magnesium	**11000**	**B F1**	200	49	ug/L		10/22/24 16:14	10/23/24 19:18	1
Manganese	**570**	**F1 F2**	2.5	0.79	ug/L		10/22/24 16:14	10/23/24 19:18	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/22/24 16:14	10/23/24 19:18	1
Nickel	**0.72**	**J**	2.0	0.63	ug/L		10/22/24 16:14	10/23/24 19:18	1
Potassium	**750**		500	110	ug/L		10/22/24 16:14	10/23/24 19:18	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 16:14	10/23/24 19:18	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 16:14	10/23/24 19:18	1
Sodium	**120000**		200	77	ug/L		10/22/24 16:14	10/23/24 19:18	1
Strontium	**3300**	**B**	4.0	0.64	ug/L		10/22/24 16:14	10/23/24 19:18	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 16:14	10/23/24 19:18	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 16:14	10/23/24 19:18	1
Vanadium	**2.9**	**J B**	5.0	2.2	ug/L		10/22/24 16:14	10/23/24 19:18	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 16:14	10/23/24 19:18	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**520**		0.91	0.46	mg/L		10/22/24 15:43	10/24/24 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**2.6**		1.0	0.18	mg/L			10/04/24 12:26	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			10/04/24 12:26	1
Chloride (EPA 300.0)	**270**	**B**	10	1.2	mg/L			10/25/24 04:27	10
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/04/24 12:26	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			10/04/24 12:26	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/04/24 12:26	1
Sulfate (EPA 300.0)	**2.0**		1.0	0.21	mg/L			10/04/24 12:26	1
Cyanide, Total (EPA 335.4)	**0.0040**	**J ^2**	0.0050	0.0036	mg/L		10/13/24 10:49	10/14/24 14:21	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/23/24 14:53	10/23/24 18:09	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:18	1
Alkalinity (SM 2320B)	**350**		5.0	3.7	mg/L			10/15/24 16:21	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**350**		5.0	3.7	mg/L			10/15/24 16:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/15/24 16:21	1
Salinity (SM 2520B)	**0.70**		0.33	0.33	psu			10/28/24 07:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: MW-5A_20241002
Date Collected: 10/02/24 15:00
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-17
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1100**		10	4.3	mg/L			10/08/24 00:32	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/09/24 16:34	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/08/24 03:19	1
Total Organic Carbon (SM 5310C)	**3.3**		1.0	0.47	mg/L			10/18/24 18:15	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**3.4**		1.0	0.47	mg/L			10/22/24 11:16	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: MW-5A_20241002-FBLL

Date Collected: 10/02/24 15:00
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-18

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 11:53	1

Qualifiers

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 3011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total Recoverable	Water	1638	
500-257876-3	SMW-3_20241002	Dissolved	Water	1638	
500-257876-3	SMW-3_20241002	Total Recoverable	Water	1638	
500-257876-5	DUP-01-GW_20241002	Dissolved	Water	1638	
500-257876-5	DUP-01-GW_20241002	Total Recoverable	Water	1638	
500-257876-7	NB1-3_20241002	Dissolved	Water	1638	
500-257876-7	NB1-3_20241002	Total Recoverable	Water	1638	
500-257876-9	CBR-02_20241003	Dissolved	Water	1638	
500-257876-9	CBR-02_20241003	Total Recoverable	Water	1638	
500-257876-11	EB-01-GW_20241002	Total Recoverable	Water	1638	
500-257876-13	NB1-1_20241002	Dissolved	Water	1638	
500-257876-13	NB1-1_20241002	Total Recoverable	Water	1638	
500-257876-15	SMW-1_20241002	Dissolved	Water	1638	
500-257876-15	SMW-1_20241002	Total Recoverable	Water	1638	
500-257876-17	MW-5A_20241002	Dissolved	Water	1638	
500-257876-17	MW-5A_20241002	Total Recoverable	Water	1638	
MB 350-3011/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-3011/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-3011/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-3011/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-257876-17 MS	MW-5A_20241002	Dissolved	Water	1638	
500-257876-17 MS	MW-5A_20241002	Total Recoverable	Water	1638	
500-257876-17 MSD	MW-5A_20241002	Dissolved	Water	1638	
500-257876-17 MSD	MW-5A_20241002	Total Recoverable	Water	1638	

Analysis Batch: 3018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total/NA	Water	1631E	
500-257876-2	MW-37_20241002-FBLL	Total/NA	Water	1631E	
500-257876-3	SMW-3_20241002	Dissolved	Water	1631E	
500-257876-3	SMW-3_20241002	Total/NA	Water	1631E	
500-257876-4	SMW-3_20241002-FBLL	Total/NA	Water	1631E	
500-257876-5	DUP-01-GW_20241002	Dissolved	Water	1631E	
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	1631E	
500-257876-6	DUP-01-GW_20241002-FBLL	Total/NA	Water	1631E	
500-257876-7	NB1-3_20241002	Dissolved	Water	1631E	
500-257876-7	NB1-3_20241002	Total/NA	Water	1631E	
500-257876-8	NB1-3_20241002-FBLL	Total/NA	Water	1631E	
500-257876-9	CBR-02_20241003	Dissolved	Water	1631E	
500-257876-9	CBR-02_20241003	Total/NA	Water	1631E	
500-257876-10	CBR-02_20241003-FBLL	Total/NA	Water	1631E	
500-257876-11	EB-01-GW_20241002	Total/NA	Water	1631E	
500-257876-12	EB-01-GW_20241002-FBLL	Total/NA	Water	1631E	
500-257876-13	NB1-1_20241002	Dissolved	Water	1631E	
500-257876-13	NB1-1_20241002	Total/NA	Water	1631E	
500-257876-14	NB1-1_20241002-FBLL	Total/NA	Water	1631E	
500-257876-15	SMW-1_20241002	Dissolved	Water	1631E	
500-257876-15	SMW-1_20241002	Total/NA	Water	1631E	
500-257876-16	SMW-1_20241002-FBLL	Total/NA	Water	1631E	
500-257876-17	MW-5A_20241002	Dissolved	Water	1631E	
500-257876-17	MW-5A_20241002	Total/NA	Water	1631E	

Metals (Continued)

Analysis Batch: 3018 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-18	MW-5A_20241002-FBLL	Total/NA	Water	1631E	
MB 350-3018/22	Method Blank	Total/NA	Water	1631E	
MB 350-3018/23	Method Blank	Total/NA	Water	1631E	
MB 350-3018/24	Method Blank	Total/NA	Water	1631E	
MB 350-3018/25	Method Blank	Total/NA	Water	1631E	
MB 350-3018/26	Method Blank	Total/NA	Water	1631E	
MB 350-3018/27	Method Blank	Total/NA	Water	1631E	
LCS 350-3018/36	Lab Control Sample	Total/NA	Water	1631E	
LCS 350-3018/38	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-3018/37	Lab Control Sample Dup	Total/NA	Water	1631E	
LCSD 350-3018/39	Lab Control Sample Dup	Total/NA	Water	1631E	
500-257876-17 MS	MW-5A_20241002	Dissolved	Water	1631E	
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	1631E	
500-257876-17 MSD	MW-5A_20241002	Dissolved	Water	1631E	
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	1631E	
500-257876-18 MS	MW-5A_20241002-FBLL	Total/NA	Water	1631E	
500-257876-18 MSD	MW-5A_20241002-FBLL	Total/NA	Water	1631E	

Analysis Batch: 3037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total Recoverable	Water	1638	3011
500-257876-3	SMW-3_20241002	Dissolved	Water	1638	3011
500-257876-3	SMW-3_20241002	Total Recoverable	Water	1638	3011
500-257876-5	DUP-01-GW_20241002	Dissolved	Water	1638	3011
500-257876-5	DUP-01-GW_20241002	Total Recoverable	Water	1638	3011
500-257876-7	NB1-3_20241002	Dissolved	Water	1638	3011
500-257876-7	NB1-3_20241002	Total Recoverable	Water	1638	3011
500-257876-9	CBR-02_20241003	Dissolved	Water	1638	3011
500-257876-9	CBR-02_20241003	Total Recoverable	Water	1638	3011
500-257876-11	EB-01-GW_20241002	Total Recoverable	Water	1638	3011
500-257876-13	NB1-1_20241002	Dissolved	Water	1638	3011
500-257876-13	NB1-1_20241002	Total Recoverable	Water	1638	3011
500-257876-15	SMW-1_20241002	Dissolved	Water	1638	3011
500-257876-15	SMW-1_20241002	Total Recoverable	Water	1638	3011
500-257876-17	MW-5A_20241002	Dissolved	Water	1638	3011
500-257876-17	MW-5A_20241002	Total Recoverable	Water	1638	3011
MB 350-3011/1-A	Method Blank	Total Recoverable	Water	1638	3011
MB 350-3011/2-A	Method Blank	Total Recoverable	Water	1638	3011
LCS 350-3011/3-A	Lab Control Sample	Total Recoverable	Water	1638	3011
LCSD 350-3011/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	3011
500-257876-17 MS	MW-5A_20241002	Dissolved	Water	1638	3011
500-257876-17 MS	MW-5A_20241002	Total Recoverable	Water	1638	3011
500-257876-17 MSD	MW-5A_20241002	Dissolved	Water	1638	3011
500-257876-17 MSD	MW-5A_20241002	Total Recoverable	Water	1638	3011

Prep Batch: 3062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-3	SMW-3_20241002	Dissolved	Water	1630	
500-257876-3	SMW-3_20241002	Total/NA	Water	1630	
500-257876-5	DUP-01-GW_20241002	Dissolved	Water	1630	
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	1630	

Metals (Continued)

Prep Batch: 3062 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-7	NB1-3_20241002	Dissolved	Water	1630	
500-257876-7	NB1-3_20241002	Total/NA	Water	1630	
500-257876-9	CBR-02_20241003	Total/NA	Water	1630	
500-257876-17	MW-5A_20241002	Dissolved	Water	1630	
500-257876-17	MW-5A_20241002	Total/NA	Water	1630	
MB 350-3062/1-A	Method Blank	Total/NA	Water	1630	
MB 350-3062/2-A	Method Blank	Total/NA	Water	1630	
MB 350-3062/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-3062/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-3062/5-A	Lab Control Sample Dup	Total/NA	Water	1630	
500-257876-17 MS	MW-5A_20241002	Dissolved	Water	1630	
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	1630	
500-257876-17 MSD	MW-5A_20241002	Dissolved	Water	1630	
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	1630	

Analysis Batch: 3088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-3	SMW-3_20241002	Dissolved	Water	1630	3062
500-257876-3	SMW-3_20241002	Total/NA	Water	1630	3062
500-257876-5	DUP-01-GW_20241002	Dissolved	Water	1630	3062
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	1630	3062
500-257876-7	NB1-3_20241002	Dissolved	Water	1630	3062
500-257876-7	NB1-3_20241002	Total/NA	Water	1630	3062
500-257876-9	CBR-02_20241003	Total/NA	Water	1630	3062
500-257876-17	MW-5A_20241002	Dissolved	Water	1630	3062
500-257876-17	MW-5A_20241002	Total/NA	Water	1630	3062
MB 350-3062/1-A	Method Blank	Total/NA	Water	1630	3062
MB 350-3062/2-A	Method Blank	Total/NA	Water	1630	3062
MB 350-3062/3-A	Method Blank	Total/NA	Water	1630	3062
LCS 350-3062/4-A	Lab Control Sample	Total/NA	Water	1630	3062
LCSD 350-3062/5-A	Lab Control Sample Dup	Total/NA	Water	1630	3062
500-257876-17 MS	MW-5A_20241002	Dissolved	Water	1630	3062
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	1630	3062
500-257876-17 MSD	MW-5A_20241002	Dissolved	Water	1630	3062
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	1630	3062

Prep Batch: 3106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-9	CBR-02_20241003	Dissolved	Water	1630	
500-257876-11	EB-01-GW_20241002	Total/NA	Water	1630	
500-257876-13	NB1-1_20241002	Dissolved	Water	1630	
500-257876-13	NB1-1_20241002	Total/NA	Water	1630	
500-257876-15	SMW-1_20241002	Dissolved	Water	1630	
500-257876-15	SMW-1_20241002	Total/NA	Water	1630	
MB 350-3106/1-A	Method Blank	Total/NA	Water	1630	
MB 350-3106/2-A	Method Blank	Total/NA	Water	1630	
MB 350-3106/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-3106/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-3106/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Metals

Analysis Batch: 3129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-9	CBR-02_20241003	Dissolved	Water	1630	3106
500-257876-11	EB-01-GW_20241002	Total/NA	Water	1630	3106
500-257876-13	NB1-1_20241002	Dissolved	Water	1630	3106
500-257876-13	NB1-1_20241002	Total/NA	Water	1630	3106
500-257876-15	SMW-1_20241002	Dissolved	Water	1630	3106
500-257876-15	SMW-1_20241002	Total/NA	Water	1630	3106
MB 350-3106/1-A	Method Blank	Total/NA	Water	1630	3106
MB 350-3106/2-A	Method Blank	Total/NA	Water	1630	3106
MB 350-3106/3-A	Method Blank	Total/NA	Water	1630	3106
LCS 350-3106/4-A	Lab Control Sample	Total/NA	Water	1630	3106
LCSD 350-3106/5-A	Lab Control Sample Dup	Total/NA	Water	1630	3106

Prep Batch: 791853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total Recoverable	Water	3005A	
500-257876-3	SMW-3_20241002	Total Recoverable	Water	3005A	
500-257876-5	DUP-01-GW_20241002	Total Recoverable	Water	3005A	
500-257876-7	NB1-3_20241002	Total Recoverable	Water	3005A	
500-257876-9	CBR-02_20241003	Total Recoverable	Water	3005A	
500-257876-11	EB-01-GW_20241002	Total Recoverable	Water	3005A	
500-257876-13	NB1-1_20241002	Total Recoverable	Water	3005A	
500-257876-15	SMW-1_20241002	Total Recoverable	Water	3005A	
500-257876-17	MW-5A_20241002	Total Recoverable	Water	3005A	
MB 500-791853/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-791853/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-257876-17 MS	MW-5A_20241002	Total Recoverable	Water	3005A	
500-257876-17 MSD	MW-5A_20241002	Total Recoverable	Water	3005A	
500-257876-17 DU	MW-5A_20241002	Total Recoverable	Water	3005A	

Prep Batch: 791854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-3	SMW-3_20241002	Dissolved	Water	3005A	
500-257876-5	DUP-01-GW_20241002	Dissolved	Water	3005A	
500-257876-7	NB1-3_20241002	Dissolved	Water	3005A	
500-257876-9	CBR-02_20241003	Dissolved	Water	3005A	
500-257876-13	NB1-1_20241002	Dissolved	Water	3005A	
500-257876-15	SMW-1_20241002	Dissolved	Water	3005A	
500-257876-17	MW-5A_20241002	Dissolved	Water	3005A	
MB 500-791854/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-791854/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 500-791854/2-A ^2	Lab Control Sample	Total Recoverable	Water	3005A	
500-257876-17 MS	MW-5A_20241002	Dissolved	Water	3005A	
500-257876-17 MSD	MW-5A_20241002	Dissolved	Water	3005A	
500-257876-17 DU	MW-5A_20241002	Dissolved	Water	3005A	

Analysis Batch: 792126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total Recoverable	Water	6020B	791853
500-257876-3	SMW-3_20241002	Dissolved	Water	6020B	791854
500-257876-3	SMW-3_20241002	Total Recoverable	Water	6020B	791853
500-257876-5	DUP-01-GW_20241002	Dissolved	Water	6020B	791854

Metals (Continued)

Analysis Batch: 792126 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-5	DUP-01-GW_20241002	Total Recoverable	Water	6020B	791853
500-257876-7	NB1-3_20241002	Dissolved	Water	6020B	791854
500-257876-7	NB1-3_20241002	Total Recoverable	Water	6020B	791853
500-257876-9	CBR-02_20241003	Dissolved	Water	6020B	791854
500-257876-9	CBR-02_20241003	Total Recoverable	Water	6020B	791853
500-257876-11	EB-01-GW_20241002	Total Recoverable	Water	6020B	791853
500-257876-13	NB1-1_20241002	Dissolved	Water	6020B	791854
500-257876-13	NB1-1_20241002	Total Recoverable	Water	6020B	791853
500-257876-15	SMW-1_20241002	Dissolved	Water	6020B	791854
500-257876-15	SMW-1_20241002	Total Recoverable	Water	6020B	791853
500-257876-17	MW-5A_20241002	Dissolved	Water	6020B	791854
500-257876-17	MW-5A_20241002	Total Recoverable	Water	6020B	791853
MB 500-791853/1-A	Method Blank	Total Recoverable	Water	6020B	791853
MB 500-791854/1-A	Method Blank	Total Recoverable	Water	6020B	791854
LCS 500-791853/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791853
LCS 500-791854/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791854
500-257876-17 MS	MW-5A_20241002	Dissolved	Water	6020B	791854
500-257876-17 MS	MW-5A_20241002	Total Recoverable	Water	6020B	791853
500-257876-17 MSD	MW-5A_20241002	Dissolved	Water	6020B	791854
500-257876-17 MSD	MW-5A_20241002	Total Recoverable	Water	6020B	791853
500-257876-17 DU	MW-5A_20241002	Dissolved	Water	6020B	791854
500-257876-17 DU	MW-5A_20241002	Total Recoverable	Water	6020B	791853

Analysis Batch: 792185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total Recoverable	Water	SM 2340B	791853
500-257876-3	SMW-3_20241002	Total Recoverable	Water	SM 2340B	791853
500-257876-5	DUP-01-GW_20241002	Total Recoverable	Water	SM 2340B	791853
500-257876-7	NB1-3_20241002	Total Recoverable	Water	SM 2340B	791853
500-257876-9	CBR-02_20241003	Total Recoverable	Water	SM 2340B	791853
500-257876-11	EB-01-GW_20241002	Total Recoverable	Water	SM 2340B	791853
500-257876-13	NB1-1_20241002	Total Recoverable	Water	SM 2340B	791853
500-257876-15	SMW-1_20241002	Total Recoverable	Water	SM 2340B	791853
500-257876-17	MW-5A_20241002	Total Recoverable	Water	SM 2340B	791853

Analysis Batch: 792227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total Recoverable	Water	6020B	791853
500-257876-3	SMW-3_20241002	Dissolved	Water	6020B	791854
500-257876-3	SMW-3_20241002	Total Recoverable	Water	6020B	791853
500-257876-5	DUP-01-GW_20241002	Dissolved	Water	6020B	791854
500-257876-5	DUP-01-GW_20241002	Total Recoverable	Water	6020B	791853
500-257876-7	NB1-3_20241002	Dissolved	Water	6020B	791854
500-257876-7	NB1-3_20241002	Total Recoverable	Water	6020B	791853
500-257876-9	CBR-02_20241003	Dissolved	Water	6020B	791854
500-257876-9	CBR-02_20241003	Total Recoverable	Water	6020B	791853
500-257876-11	EB-01-GW_20241002	Total Recoverable	Water	6020B	791853
500-257876-13	NB1-1_20241002	Dissolved	Water	6020B	791854
500-257876-13	NB1-1_20241002	Total Recoverable	Water	6020B	791853
500-257876-15	SMW-1_20241002	Dissolved	Water	6020B	791854
500-257876-15	SMW-1_20241002	Total Recoverable	Water	6020B	791853

Metals (Continued)

Analysis Batch: 792227 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-17	MW-5A_20241002	Dissolved	Water	6020B	791854
500-257876-17	MW-5A_20241002	Total Recoverable	Water	6020B	791853
MB 500-791853/1-A	Method Blank	Total Recoverable	Water	6020B	791853
MB 500-791854/1-A	Method Blank	Total Recoverable	Water	6020B	791854
LCS 500-791853/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791853
LCS 500-791854/2-A ^2	Lab Control Sample	Total Recoverable	Water	6020B	791854
500-257876-17 MS	MW-5A_20241002	Dissolved	Water	6020B	791854
500-257876-17 MS	MW-5A_20241002	Total Recoverable	Water	6020B	791853
500-257876-17 MSD	MW-5A_20241002	Dissolved	Water	6020B	791854
500-257876-17 MSD	MW-5A_20241002	Total Recoverable	Water	6020B	791853
500-257876-17 DU	MW-5A_20241002	Dissolved	Water	6020B	791854
500-257876-17 DU	MW-5A_20241002	Total Recoverable	Water	6020B	791853

General Chemistry

Analysis Batch: 789102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total/NA	Water	300.0	
500-257876-3	SMW-3_20241002	Total/NA	Water	300.0	
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	300.0	
500-257876-7	NB1-3_20241002	Total/NA	Water	300.0	
500-257876-9	CBR-02_20241003	Total/NA	Water	300.0	
500-257876-11	EB-01-GW_20241002	Total/NA	Water	300.0	
500-257876-13	NB1-1_20241002	Total/NA	Water	300.0	
500-257876-15	SMW-1_20241002	Total/NA	Water	300.0	
500-257876-17	MW-5A_20241002	Total/NA	Water	300.0	
MB 500-789102/3	Method Blank	Total/NA	Water	300.0	
MB 500-789102/65	Method Blank	Total/NA	Water	300.0	
LCS 500-789102/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-789102/66	Lab Control Sample	Total/NA	Water	300.0	
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	300.0	
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	300.0	

Analysis Batch: 789103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total/NA	Water	300.0	
500-257876-3	SMW-3_20241002	Total/NA	Water	300.0	
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	300.0	
500-257876-7	NB1-3_20241002	Total/NA	Water	300.0	
500-257876-9	CBR-02_20241003	Total/NA	Water	300.0	
500-257876-11	EB-01-GW_20241002	Total/NA	Water	300.0	
500-257876-13	NB1-1_20241002	Total/NA	Water	300.0	
500-257876-15	SMW-1_20241002	Total/NA	Water	300.0	
500-257876-17	MW-5A_20241002	Total/NA	Water	300.0	
MB 500-789103/3	Method Blank	Total/NA	Water	300.0	
MB 500-789103/65	Method Blank	Total/NA	Water	300.0	
LCS 500-789103/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-789103/66	Lab Control Sample	Total/NA	Water	300.0	
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	300.0	
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	300.0	

General Chemistry

Prep Batch: 789343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total/NA	Water	365.2/365.3/365	
500-257876-3	SMW-3_20241002	Total/NA	Water	365.2/365.3/365	
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	365.2/365.3/365	
MB 500-789343/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-789343/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
500-257876-3 MS	SMW-3_20241002	Total/NA	Water	365.2/365.3/365	
500-257876-3 MSD	SMW-3_20241002	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 789468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total/NA	Water	SM 2540C	
500-257876-3	SMW-3_20241002	Total/NA	Water	SM 2540C	
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	SM 2540C	
500-257876-7	NB1-3_20241002	Total/NA	Water	SM 2540C	
500-257876-9	CBR-02_20241003	Total/NA	Water	SM 2540C	
500-257876-11	EB-01-GW_20241002	Total/NA	Water	SM 2540C	
500-257876-13	NB1-1_20241002	Total/NA	Water	SM 2540C	
500-257876-15	SMW-1_20241002	Total/NA	Water	SM 2540C	
500-257876-17	MW-5A_20241002	Total/NA	Water	SM 2540C	
MB 500-789468/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-789468/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	SM 2540C	
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	SM 2540C	
500-257876-15 DU	SMW-1_20241002	Total/NA	Water	SM 2540C	

Analysis Batch: 789592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total/NA	Water	SM 4500 S2 F	
500-257876-3	SMW-3_20241002	Total/NA	Water	SM 4500 S2 F	
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	SM 4500 S2 F	
500-257876-7	NB1-3_20241002	Total/NA	Water	SM 4500 S2 F	
500-257876-9	CBR-02_20241003	Total/NA	Water	SM 4500 S2 F	
500-257876-11	EB-01-GW_20241002	Total/NA	Water	SM 4500 S2 F	
500-257876-13	NB1-1_20241002	Total/NA	Water	SM 4500 S2 F	
500-257876-15	SMW-1_20241002	Total/NA	Water	SM 4500 S2 F	
500-257876-17	MW-5A_20241002	Total/NA	Water	SM 4500 S2 F	
MB 500-789592/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-789592/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	SM 4500 S2 F	
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 789839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total/NA	Water	SM 2540D	
500-257876-3	SMW-3_20241002	Total/NA	Water	SM 2540D	
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	SM 2540D	
500-257876-7	NB1-3_20241002	Total/NA	Water	SM 2540D	
500-257876-11	EB-01-GW_20241002	Total/NA	Water	SM 2540D	
500-257876-13	NB1-1_20241002	Total/NA	Water	SM 2540D	
500-257876-15	SMW-1_20241002	Total/NA	Water	SM 2540D	
500-257876-17	MW-5A_20241002	Total/NA	Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 789839 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-789839/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-789839/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	SM 2540D	
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	SM 2540D	

Analysis Batch: 789847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total/NA	Water	365.1	789343
500-257876-3	SMW-3_20241002	Total/NA	Water	365.1	789343
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	365.1	789343
MB 500-789343/1-A	Method Blank	Total/NA	Water	365.1	789343
LCS 500-789343/2-A	Lab Control Sample	Total/NA	Water	365.1	789343
500-257876-3 MS	SMW-3_20241002	Total/NA	Water	365.1	789343
500-257876-3 MSD	SMW-3_20241002	Total/NA	Water	365.1	789343

Analysis Batch: 790040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-9	CBR-02_20241003	Total/NA	Water	SM 2540D	
MB 500-790040/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-790040/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 790378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total/NA	Water	Distill/CN	
500-257876-3	SMW-3_20241002	Total/NA	Water	Distill/CN	
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	Distill/CN	
500-257876-7	NB1-3_20241002	Total/NA	Water	Distill/CN	
500-257876-9	CBR-02_20241003	Total/NA	Water	Distill/CN	
500-257876-11	EB-01-GW_20241002	Total/NA	Water	Distill/CN	
500-257876-15	SMW-1_20241002	Total/NA	Water	Distill/CN	
500-257876-17	MW-5A_20241002	Total/NA	Water	Distill/CN	
MB 500-790378/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-790378/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	Distill/CN	
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	Distill/CN	

Analysis Batch: 790571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total/NA	Water	335.4	790378
500-257876-3	SMW-3_20241002	Total/NA	Water	335.4	790378
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	335.4	790378
500-257876-7	NB1-3_20241002	Total/NA	Water	335.4	790378
500-257876-9	CBR-02_20241003	Total/NA	Water	335.4	790378
500-257876-11	EB-01-GW_20241002	Total/NA	Water	335.4	790378
500-257876-15	SMW-1_20241002	Total/NA	Water	335.4	790378
500-257876-17	MW-5A_20241002	Total/NA	Water	335.4	790378
MB 500-790378/1-A	Method Blank	Total/NA	Water	335.4	790378
LCS 500-790378/2-A	Lab Control Sample	Total/NA	Water	335.4	790378
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	335.4	790378
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	335.4	790378

General Chemistry

Prep Batch: 790727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-13	NB1-1_20241002	Total/NA	Water	Distill/CN	
MB 500-790727/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-790727/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 790803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-13	NB1-1_20241002	Total/NA	Water	335.4	790727
MB 500-790727/1-A	Method Blank	Total/NA	Water	335.4	790727
LCS 500-790727/2-A	Lab Control Sample	Total/NA	Water	335.4	790727

Analysis Batch: 790858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total/NA	Water	SM 2320B	
500-257876-3	SMW-3_20241002	Total/NA	Water	SM 2320B	
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	SM 2320B	
500-257876-7	NB1-3_20241002	Total/NA	Water	SM 2320B	
500-257876-9	CBR-02_20241003	Total/NA	Water	SM 2320B	
500-257876-11	EB-01-GW_20241002	Total/NA	Water	SM 2320B	
500-257876-13	NB1-1_20241002	Total/NA	Water	SM 2320B	
500-257876-15	SMW-1_20241002	Total/NA	Water	SM 2320B	
500-257876-17	MW-5A_20241002	Total/NA	Water	SM 2320B	
MB 500-790858/28	Method Blank	Total/NA	Water	SM 2320B	
MB 500-790858/53	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-790858/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-790858/4	Lab Control Sample	Total/NA	Water	SM 2320B	
500-257876-17 DU	MW-5A_20241002	Total/NA	Water	SM 2320B	

Analysis Batch: 790938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-7	NB1-3_20241002	Total/NA	Water	300.0	
500-257876-13	NB1-1_20241002	Total/NA	Water	300.0	
MB 500-790938/33	Method Blank	Total/NA	Water	300.0	
LCS 500-790938/34	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 791489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total/NA	Water	SM 5310C	
500-257876-3	SMW-3_20241002	Total/NA	Water	SM 5310C	
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	SM 5310C	
500-257876-7	NB1-3_20241002	Total/NA	Water	SM 5310C	
500-257876-9	CBR-02_20241003	Total/NA	Water	SM 5310C	
500-257876-11	EB-01-GW_20241002	Total/NA	Water	SM 5310C	
500-257876-13	NB1-1_20241002	Total/NA	Water	SM 5310C	
500-257876-15	SMW-1_20241002	Total/NA	Water	SM 5310C	
500-257876-17	MW-5A_20241002	Total/NA	Water	SM 5310C	
MB 500-791489/31	Method Blank	Total/NA	Water	SM 5310C	
MB 500-791489/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-791489/32	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 500-791489/8	Lab Control Sample	Total/NA	Water	SM 5310C	
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	SM 5310C	
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	SM 5310C	

General Chemistry

Analysis Batch: 791496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-3	SMW-3_20241002	Dissolved	Water	SM 5310C	
500-257876-5	DUP-01-GW_20241002	Dissolved	Water	SM 5310C	
500-257876-7	NB1-3_20241002	Dissolved	Water	SM 5310C	
500-257876-9	CBR-02_20241003	Dissolved	Water	SM 5310C	
500-257876-13	NB1-1_20241002	Dissolved	Water	SM 5310C	
500-257876-15	SMW-1_20241002	Dissolved	Water	SM 5310C	
MB 500-791496/31	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-791496/32	Lab Control Sample	Dissolved	Water	SM 5310C	

Prep Batch: 791606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-7	NB1-3_20241002	Total/NA	Water	365.2/365.3/365	
500-257876-9	CBR-02_20241003	Total/NA	Water	365.2/365.3/365	
500-257876-11	EB-01-GW_20241002	Total/NA	Water	365.2/365.3/365	
500-257876-13	NB1-1_20241002	Total/NA	Water	365.2/365.3/365	
500-257876-15	SMW-1_20241002	Total/NA	Water	365.2/365.3/365	
500-257876-17	MW-5A_20241002	Total/NA	Water	365.2/365.3/365	
MB 500-791606/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-791606/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	365.2/365.3/365	
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 791790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-17	MW-5A_20241002	Dissolved	Water	SM 5310C	
MB 500-791790/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-791790/8	Lab Control Sample	Dissolved	Water	SM 5310C	
500-257876-17 MS	MW-5A_20241002	Dissolved	Water	SM 5310C	
500-257876-17 MSD	MW-5A_20241002	Dissolved	Water	SM 5310C	

Prep Batch: 791982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total/NA	Water	Distill/Ammonia	
500-257876-3	SMW-3_20241002	Total/NA	Water	Distill/Ammonia	
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	Distill/Ammonia	
500-257876-7	NB1-3_20241002	Total/NA	Water	Distill/Ammonia	
500-257876-9	CBR-02_20241003	Total/NA	Water	Distill/Ammonia	
500-257876-11	EB-01-GW_20241002	Total/NA	Water	Distill/Ammonia	
500-257876-13	NB1-1_20241002	Total/NA	Water	Distill/Ammonia	
500-257876-15	SMW-1_20241002	Total/NA	Water	Distill/Ammonia	
MB 500-791982/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-791982/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 792014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-7	NB1-3_20241002	Total/NA	Water	365.1	791606
500-257876-9	CBR-02_20241003	Total/NA	Water	365.1	791606
500-257876-11	EB-01-GW_20241002	Total/NA	Water	365.1	791606
500-257876-13	NB1-1_20241002	Total/NA	Water	365.1	791606
500-257876-15	SMW-1_20241002	Total/NA	Water	365.1	791606
500-257876-17	MW-5A_20241002	Total/NA	Water	365.1	791606

General Chemistry (Continued)

Analysis Batch: 792014 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-791606/1-A	Method Blank	Total/NA	Water	365.1	791606
LCS 500-791606/2-A	Lab Control Sample	Total/NA	Water	365.1	791606
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	365.1	791606
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	365.1	791606

Prep Batch: 792022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-17	MW-5A_20241002	Total/NA	Water	Distill/Ammonia	
MB 500-792022/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-792022/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	Distill/Ammonia	
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 792080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-17	MW-5A_20241002	Total/NA	Water	350.1	792022
MB 500-792022/1-A	Method Blank	Total/NA	Water	350.1	792022
LCS 500-792022/2-A	Lab Control Sample	Total/NA	Water	350.1	792022
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	350.1	792022
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	350.1	792022

Analysis Batch: 792265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-17	MW-5A_20241002	Total/NA	Water	300.0	
MB 500-792265/3	Method Blank	Total/NA	Water	300.0	
LCS 500-792265/4	Lab Control Sample	Total/NA	Water	300.0	
500-257876-17 MS	MW-5A_20241002	Total/NA	Water	300.0	
500-257876-17 MSD	MW-5A_20241002	Total/NA	Water	300.0	

Analysis Batch: 792456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total/NA	Water	350.1	791982
500-257876-3	SMW-3_20241002	Total/NA	Water	350.1	791982
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	350.1	791982
500-257876-7	NB1-3_20241002	Total/NA	Water	350.1	791982
500-257876-9	CBR-02_20241003	Total/NA	Water	350.1	791982
500-257876-11	EB-01-GW_20241002	Total/NA	Water	350.1	791982
500-257876-13	NB1-1_20241002	Total/NA	Water	350.1	791982
500-257876-15	SMW-1_20241002	Total/NA	Water	350.1	791982
MB 500-791982/1-A	Method Blank	Total/NA	Water	350.1	791982
LCS 500-791982/2-A	Lab Control Sample	Total/NA	Water	350.1	791982

Analysis Batch: 792565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-1	MW-37_20241002	Total/NA	Water	SM 2520B	
500-257876-3	SMW-3_20241002	Total/NA	Water	SM 2520B	
500-257876-5	DUP-01-GW_20241002	Total/NA	Water	SM 2520B	
500-257876-7	NB1-3_20241002	Total/NA	Water	SM 2520B	
500-257876-9	CBR-02_20241003	Total/NA	Water	SM 2520B	
500-257876-11	EB-01-GW_20241002	Total/NA	Water	SM 2520B	
500-257876-13	NB1-1_20241002	Total/NA	Water	SM 2520B	

General Chemistry (Continued)

Analysis Batch: 792565 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-257876-15	SMW-1_20241002	Total/NA	Water	SM 2520B	
500-257876-17	MW-5A_20241002	Total/NA	Water	SM 2520B	
500-257876-11 DU	EB-01-GW_20241002	Total/NA	Water	SM 2520B	

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-3062/1-A
Matrix: Water
Analysis Batch: 3088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	0.0220	J	0.050	0.022	ng/L		10/17/24 11:54	10/18/24 13:29	1

Lab Sample ID: MB 350-3062/2-A
Matrix: Water
Analysis Batch: 3088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/17/24 11:54	10/18/24 13:39	1

Lab Sample ID: MB 350-3062/3-A
Matrix: Water
Analysis Batch: 3088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/17/24 11:54	10/18/24 13:50	1

Lab Sample ID: LCS 350-3062/4-A
Matrix: Water
Analysis Batch: 3088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.894		ng/L		89	65 - 135

Lab Sample ID: LCSD 350-3062/5-A
Matrix: Water
Analysis Batch: 3088

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3062

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.874		ng/L		87	65 - 135	2	35

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 3088

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA
Prep Batch: 3062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	<0.022		1.00	0.882		ng/L		88	65 - 135

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 3088

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA
Prep Batch: 3062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	<0.022		1.00	0.878		ng/L		88	65 - 135	1	35

Lab Sample ID: MB 350-3106/1-A
Matrix: Water
Analysis Batch: 3129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/23/24 11:27	10/24/24 15:22	1

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-3106/2-A
Matrix: Water
Analysis Batch: 3129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/23/24 11:27	10/24/24 15:32	1

Lab Sample ID: MB 350-3106/3-A
Matrix: Water
Analysis Batch: 3129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/23/24 11:27	10/24/24 15:43	1

Lab Sample ID: LCS 350-3106/4-A
Matrix: Water
Analysis Batch: 3129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3106

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl Mercury			1.00	0.848		ng/L		85	65 - 135		

Lab Sample ID: LCSD 350-3106/5-A
Matrix: Water
Analysis Batch: 3129

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3106

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury			1.00	0.889		ng/L		89	65 - 135	5	35

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 3088

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved
Prep Batch: 3062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl Mercury	<0.022		1.00	0.866		ng/L		87	65 - 135		

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 3088

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved
Prep Batch: 3062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	<0.022		1.00	0.795		ng/L		79	65 - 135	9	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-3018/22
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 12:30	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-3018/23
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 12:34	1

Lab Sample ID: MB 350-3018/24
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 12:39	1

Lab Sample ID: MB 350-3018/25
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 12:43	1

Lab Sample ID: MB 350-3018/26
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 12:47	1

Lab Sample ID: MB 350-3018/27
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/10/24 12:51	1

Lab Sample ID: LCS 350-3018/36
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.60		ng/L		92	77 - 123

Lab Sample ID: LCS 350-3018/38
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.74		ng/L		95	77 - 123

Lab Sample ID: LCSD 350-3018/37
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.64		ng/L		93	77 - 123	1	24

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: LCSD 350-3018/39
Matrix: Water
Analysis Batch: 3018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			5.00	4.59		ng/L		92	77 - 123	3	24

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 3018

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.58		5.00	5.03		ng/L		89	71 - 125

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 3018

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.58		5.00	4.89		ng/L		86	71 - 125	3	24

Lab Sample ID: 500-257876-18 MS
Matrix: Water
Analysis Batch: 3018

Client Sample ID: MW-5A_20241002-FBLL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.20		5.00	4.82		ng/L		96	71 - 125

Lab Sample ID: 500-257876-18 MSD
Matrix: Water
Analysis Batch: 3018

Client Sample ID: MW-5A_20241002-FBLL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.20		5.00	4.91		ng/L		98	71 - 125	2	24

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 3018

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.30	J	5.00	4.76		ng/L		89	71 - 125

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 3018

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.30	J	5.00	4.77		ng/L		89	71 - 125	0	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-3011/1-A
Matrix: Water
Analysis Batch: 3037

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 3011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 14:30	1

Lab Sample ID: MB 350-3011/2-A
Matrix: Water
Analysis Batch: 3037

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 3011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/10/24 16:55	10/11/24 14:34	1

Lab Sample ID: LCS 350-3011/3-A
Matrix: Water
Analysis Batch: 3037

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 3011

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium			25.0	24.1		ug/L		96	85 - 115		

Lab Sample ID: LCSD 350-3011/4-A
Matrix: Water
Analysis Batch: 3037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 3011

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium			25.0	23.8		ug/L		95	85 - 115	1	20

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 3037

Client Sample ID: MW-5A_20241002
Prep Type: Total Recoverable
Prep Batch: 3011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium	11		25.0	36.1		ug/L		102	70 - 130		

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 3037

Client Sample ID: MW-5A_20241002
Prep Type: Total Recoverable
Prep Batch: 3011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	11		25.0	36.7		ug/L		104	70 - 130	2	20

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 3037

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved
Prep Batch: 3011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium	12		25.0	37.7		ug/L		101	70 - 130		

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 3037

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved
Prep Batch: 3011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	12		25.0	37.0		ug/L		99	70 - 130	2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-791853/1-A
Matrix: Water
Analysis Batch: 792126

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 791853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/22/24 15:43	10/23/24 19:45	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 15:43	10/23/24 19:45	1
Arsenic	<0.23		1.0	0.23	ug/L		10/22/24 15:43	10/23/24 19:45	1
Barium	<0.73		2.5	0.73	ug/L		10/22/24 15:43	10/23/24 19:45	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 15:43	10/23/24 19:45	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 15:43	10/23/24 19:45	1
Cobalt	<0.40		1.0	0.40	ug/L		10/22/24 15:43	10/23/24 19:45	1
Copper	<0.50		2.0	0.50	ug/L		10/22/24 15:43	10/23/24 19:45	1
Iron	<47		100	47	ug/L		10/22/24 15:43	10/23/24 19:45	1
Lead	<0.19		0.50	0.19	ug/L		10/22/24 15:43	10/23/24 19:45	1
Lithium	<2.5		10	2.5	ug/L		10/22/24 15:43	10/23/24 19:45	1
Magnesium	<49		200	49	ug/L		10/22/24 15:43	10/23/24 19:45	1
Manganese	<0.79		2.5	0.79	ug/L		10/22/24 15:43	10/23/24 19:45	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/22/24 15:43	10/23/24 19:45	1
Nickel	<0.63		2.0	0.63	ug/L		10/22/24 15:43	10/23/24 19:45	1
Potassium	<110		500	110	ug/L		10/22/24 15:43	10/23/24 19:45	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 15:43	10/23/24 19:45	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 15:43	10/23/24 19:45	1
Sodium	<77		200	77	ug/L		10/22/24 15:43	10/23/24 19:45	1
Strontium	<0.64		4.0	0.64	ug/L		10/22/24 15:43	10/23/24 19:45	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 15:43	10/23/24 19:45	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 15:43	10/23/24 19:45	1
Vanadium	<2.2		5.0	2.2	ug/L		10/22/24 15:43	10/23/24 19:45	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 15:43	10/23/24 19:45	1

Lab Sample ID: MB 500-791853/1-A
Matrix: Water
Analysis Batch: 792227

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 791853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 15:43	10/24/24 12:03	1
Boron	36.6	J	50	13	ug/L		10/22/24 15:43	10/24/24 12:03	1
Calcium	<44		200	44	ug/L		10/22/24 15:43	10/24/24 12:03	1

Lab Sample ID: LCS 500-791853/2-A
Matrix: Water
Analysis Batch: 792126

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 791853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1990		ug/L		99	80 - 120
Antimony	500	525		ug/L		105	80 - 120
Arsenic	100	97.4		ug/L		97	80 - 120
Barium	500	485		ug/L		97	80 - 120
Cadmium	50.0	48.6		ug/L		97	80 - 120
Chromium	200	185		ug/L		92	80 - 120
Cobalt	500	473		ug/L		95	80 - 120
Copper	250	250		ug/L		100	80 - 120
Iron	1000	961		ug/L		96	80 - 120
Lead	100	100		ug/L		100	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-791853/2-A
Matrix: Water
Analysis Batch: 792126

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 791853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	100	97.0		ug/L		97	80 - 120
Magnesium	10000	10100		ug/L		101	80 - 120
Manganese	500	471		ug/L		94	80 - 120
Molybdenum	1000	927		ug/L		93	80 - 120
Nickel	500	478		ug/L		96	80 - 120
Potassium	10000	10100		ug/L		101	80 - 120
Selenium	100	99.0		ug/L		99	80 - 120
Silver	50.0	48.6		ug/L		97	80 - 120
Sodium	10000	10000		ug/L		100	80 - 120
Strontium	1000	959		ug/L		96	80 - 120
Thallium	100	101		ug/L		101	80 - 120
Tin	1000	982		ug/L		98	80 - 120
Vanadium	500	470		ug/L		94	80 - 120
Zinc	500	505		ug/L		101	80 - 120

Lab Sample ID: LCS 500-791853/2-A
Matrix: Water
Analysis Batch: 792227

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 791853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	50.0	51.2		ug/L		102	80 - 120
Boron	1000	1020		ug/L		102	80 - 120
Calcium	10000	8020		ug/L		80	80 - 120

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 792126

Client Sample ID: MW-5A_20241002
Prep Type: Total Recoverable
Prep Batch: 791853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	<25		2000	1940		ug/L		97	75 - 125
Antimony	<1.3		500	523		ug/L		105	75 - 125
Arsenic	0.64	J	100	97.4		ug/L		97	75 - 125
Barium	710		500	1170		ug/L		93	75 - 125
Cadmium	<0.17		50.0	48.6		ug/L		97	75 - 125
Calcium	180000	*-	10000	178000	4	ug/L		4	75 - 125
Chromium	<1.1		200	186		ug/L		93	75 - 125
Cobalt	0.46	J	500	466		ug/L		93	75 - 125
Copper	1.2	J	250	243		ug/L		97	75 - 125
Iron	70	J	1000	1000		ug/L		93	75 - 125
Lead	<0.19		100	101		ug/L		101	75 - 125
Lithium	57		100	161		ug/L		104	75 - 125
Magnesium	17000		10000	24800		ug/L		79	75 - 125
Manganese	1000		500	1410		ug/L		80	75 - 125
Molybdenum	<2.5		1000	952		ug/L		95	75 - 125
Nickel	0.72	J	500	468		ug/L		93	75 - 125
Potassium	550		10000	10200		ug/L		97	75 - 125
Selenium	<0.98		100	97.4		ug/L		97	75 - 125
Silver	<0.12		50.0	47.8		ug/L		96	75 - 125
Sodium	110000	^2	10000	120000	4	ug/L		78	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 792126

Client Sample ID: MW-5A_20241002
Prep Type: Total Recoverable
Prep Batch: 791853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Strontium	3300		1000	4190		ug/L		90	75 - 125
Thallium	<0.57		100	102		ug/L		102	75 - 125
Tin	<1.3		1000	984		ug/L		98	75 - 125
Vanadium	<2.2		500	475		ug/L		95	75 - 125
Zinc	<6.9		500	490		ug/L		98	75 - 125

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 792227

Client Sample ID: MW-5A_20241002
Prep Type: Total Recoverable
Prep Batch: 791853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.53		50.0	49.2		ug/L		98	75 - 125
Boron	190	B	1000	1170		ug/L		98	75 - 125

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 792126

Client Sample ID: MW-5A_20241002
Prep Type: Total Recoverable
Prep Batch: 791853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	<25		2000	1930		ug/L		96	75 - 125	1	20
Antimony	<1.3		500	527		ug/L		105	75 - 125	1	20
Arsenic	0.64	J	100	97.2		ug/L		97	75 - 125	0	20
Barium	710		500	1140		ug/L		86	75 - 125	3	20
Cadmium	<0.17		50.0	48.2		ug/L		96	75 - 125	1	20
Calcium	180000	*-	10000	176000	4	ug/L		-19	75 - 125	1	20
Chromium	<1.1		200	184		ug/L		92	75 - 125	1	20
Cobalt	0.46	J	500	458		ug/L		92	75 - 125	2	20
Copper	1.2	J	250	242		ug/L		97	75 - 125	0	20
Iron	70	J	1000	1010		ug/L		94	75 - 125	0	20
Lead	<0.19		100	101		ug/L		101	75 - 125	1	20
Lithium	57		100	157		ug/L		101	75 - 125	2	20
Magnesium	17000		10000	25400		ug/L		85	75 - 125	2	20
Manganese	1000		500	1420		ug/L		80	75 - 125	0	20
Molybdenum	<2.5		1000	951		ug/L		95	75 - 125	0	20
Nickel	0.72	J	500	470		ug/L		94	75 - 125	0	20
Potassium	550		10000	10100		ug/L		96	75 - 125	1	20
Selenium	<0.98		100	97.0		ug/L		97	75 - 125	0	20
Silver	<0.12		50.0	47.8		ug/L		96	75 - 125	0	20
Sodium	110000	^2	10000	117000	4	ug/L		46	75 - 125	3	20
Strontium	3300		1000	4080		ug/L		80	75 - 125	3	20
Thallium	<0.57		100	104		ug/L		104	75 - 125	2	20
Tin	<1.3		1000	989		ug/L		99	75 - 125	1	20
Vanadium	<2.2		500	471		ug/L		94	75 - 125	1	20
Zinc	<6.9		500	491		ug/L		98	75 - 125	0	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 792227

Client Sample ID: MW-5A_20241002
Prep Type: Total Recoverable
Prep Batch: 791853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.53		50.0	49.2		ug/L		98	75 - 125	0	20
Boron	190	B	1000	1160		ug/L		96	75 - 125	1	20

Lab Sample ID: 500-257876-17 DU
Matrix: Water
Analysis Batch: 792126

Client Sample ID: MW-5A_20241002
Prep Type: Total Recoverable
Prep Batch: 791853

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	<25		<25		ug/L		NC	20
Antimony	<1.3		<1.3		ug/L		NC	20
Arsenic	0.64	J	0.621	J	ug/L		3	20
Barium	710		701		ug/L		1	20
Cadmium	<0.17		<0.17		ug/L		NC	20
Chromium	<1.1		<1.1		ug/L		NC	20
Cobalt	0.46	J	0.444	J	ug/L		4	20
Copper	1.2	J	1.08	J	ug/L		9	20
Iron	70	J	67.5	J	ug/L		4	20
Lead	<0.19		<0.19		ug/L		NC	20
Lithium	57		58.3		ug/L		3	20
Magnesium	17000		16400		ug/L		3	20
Manganese	1000		992		ug/L		2	20
Molybdenum	<2.5		<2.5		ug/L		NC	20
Nickel	0.72	J	<0.63		ug/L		NC	20
Potassium	550		536		ug/L		3	20
Selenium	<0.98		<0.98		ug/L		NC	20
Silver	<0.12		<0.12		ug/L		NC	20
Sodium	110000	^2	110000		ug/L		2	20
Strontium	3300		3200		ug/L		2	20
Thallium	<0.57		<0.57		ug/L		NC	20
Tin	<1.3		<1.3		ug/L		NC	20
Vanadium	<2.2		<2.2		ug/L		NC	20
Zinc	<6.9		<6.9		ug/L		NC	20

Lab Sample ID: 500-257876-17 DU
Matrix: Water
Analysis Batch: 792227

Client Sample ID: MW-5A_20241002
Prep Type: Total Recoverable
Prep Batch: 791853

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.53		<0.53		ug/L		NC	20
Boron	190	B	179		ug/L		7	20
Calcium	180000		178000		ug/L		2	20

Lab Sample ID: MB 500-791854/1-A
Matrix: Water
Analysis Batch: 792126

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 791854

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/22/24 16:14	10/23/24 18:41	1
Antimony	<1.3		3.0	1.3	ug/L		10/22/24 16:14	10/23/24 18:41	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-791854/1-A
Matrix: Water
Analysis Batch: 792126

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 791854

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.318	J	1.0	0.23	ug/L		10/22/24 16:14	10/23/24 18:41	1
Barium	<0.73		2.5	0.73	ug/L		10/22/24 16:14	10/23/24 18:41	1
Cadmium	<0.17		0.50	0.17	ug/L		10/22/24 16:14	10/23/24 18:41	1
Chromium	<1.1		5.0	1.1	ug/L		10/22/24 16:14	10/23/24 18:41	1
Cobalt	<0.40		1.0	0.40	ug/L		10/22/24 16:14	10/23/24 18:41	1
Copper	<0.50		2.0	0.50	ug/L		10/22/24 16:14	10/23/24 18:41	1
Iron	<47		100	47	ug/L		10/22/24 16:14	10/23/24 18:41	1
Lead	<0.19		0.50	0.19	ug/L		10/22/24 16:14	10/23/24 18:41	1
Lithium	<2.5		10	2.5	ug/L		10/22/24 16:14	10/23/24 18:41	1
Magnesium	66.0	J	200	49	ug/L		10/22/24 16:14	10/23/24 18:41	1
Manganese	<0.79		2.5	0.79	ug/L		10/22/24 16:14	10/23/24 18:41	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/22/24 16:14	10/23/24 18:41	1
Nickel	<0.63		2.0	0.63	ug/L		10/22/24 16:14	10/23/24 18:41	1
Potassium	<110		500	110	ug/L		10/22/24 16:14	10/23/24 18:41	1
Selenium	<0.98		2.5	0.98	ug/L		10/22/24 16:14	10/23/24 18:41	1
Silver	<0.12		0.50	0.12	ug/L		10/22/24 16:14	10/23/24 18:41	1
Sodium	<77		200	77	ug/L		10/22/24 16:14	10/23/24 18:41	1
Strontium	0.870	J	4.0	0.64	ug/L		10/22/24 16:14	10/23/24 18:41	1
Thallium	<0.57		2.0	0.57	ug/L		10/22/24 16:14	10/23/24 18:41	1
Tin	<1.3		5.0	1.3	ug/L		10/22/24 16:14	10/23/24 18:41	1
Vanadium	4.31	J	5.0	2.2	ug/L		10/22/24 16:14	10/23/24 18:41	1
Zinc	<6.9		20	6.9	ug/L		10/22/24 16:14	10/23/24 18:41	1

Lab Sample ID: MB 500-791854/1-A
Matrix: Water
Analysis Batch: 792227

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 791854

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.53		1.0	0.53	ug/L		10/22/24 16:14	10/24/24 12:46	1
Boron	33.9	J	50	13	ug/L		10/22/24 16:14	10/24/24 12:46	1
Calcium	<44		200	44	ug/L		10/22/24 16:14	10/24/24 12:46	1

Lab Sample ID: LCS 500-791854/2-A
Matrix: Water
Analysis Batch: 792126

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 791854

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1970		ug/L		99	80 - 120
Antimony	500	513		ug/L		103	80 - 120
Arsenic	100	99.9		ug/L		100	80 - 120
Barium	500	495		ug/L		99	80 - 120
Cadmium	50.0	47.9		ug/L		96	80 - 120
Chromium	200	178		ug/L		89	80 - 120
Cobalt	500	449		ug/L		90	80 - 120
Copper	250	252		ug/L		101	80 - 120
Iron	1000	930		ug/L		93	80 - 120
Lead	100	97.6		ug/L		98	80 - 120
Lithium	100	93.5		ug/L		93	80 - 120
Magnesium	10000	10000		ug/L		100	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-791854/2-A
Matrix: Water
Analysis Batch: 792126

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 791854

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	500	459		ug/L		92	80 - 120
Molybdenum	1000	926		ug/L		93	80 - 120
Nickel	500	473		ug/L		95	80 - 120
Potassium	10000	10000		ug/L		100	80 - 120
Selenium	100	103		ug/L		103	80 - 120
Silver	50.0	47.6		ug/L		95	80 - 120
Sodium	10000	9680		ug/L		97	80 - 120
Strontium	1000	978		ug/L		98	80 - 120
Thallium	100	98.1		ug/L		98	80 - 120
Tin	1000	960		ug/L		96	80 - 120
Vanadium	500	457		ug/L		91	80 - 120
Zinc	500	508		ug/L		102	80 - 120

Lab Sample ID: LCS 500-791854/2-A ^2
Matrix: Water
Analysis Batch: 792227

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 791854

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	50.0	50.3		ug/L		101	80 - 120
Boron	1000	1040		ug/L		104	80 - 120
Calcium	10000	7980		ug/L		80	80 - 120

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 792126

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved
Prep Batch: 791854

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	<25		2000	1960		ug/L		98	75 - 125
Antimony	<1.3		500	537		ug/L		107	75 - 125
Arsenic	0.73	J B	100	102		ug/L		101	75 - 125
Barium	560		500	1120		ug/L		113	75 - 125
Cadmium	<0.17		50.0	48.9		ug/L		98	75 - 125
Chromium	<1.1		200	181		ug/L		90	75 - 125
Cobalt	<0.40		500	459		ug/L		92	75 - 125
Copper	1.8	J	250	251		ug/L		100	75 - 125
Iron	<47		1000	990		ug/L		99	75 - 125
Lead	<0.19		100	100		ug/L		100	75 - 125
Lithium	64		100	148		ug/L		84	75 - 125
Magnesium	11000	B F1	10000	25800	F1	ug/L		144	75 - 125
Manganese	570	F1 F2	500	1350	F1	ug/L		156	75 - 125
Molybdenum	<2.5		1000	980		ug/L		98	75 - 125
Nickel	0.72	J	500	467		ug/L		93	75 - 125
Potassium	750		10000	10300		ug/L		96	75 - 125
Selenium	<0.98		100	104		ug/L		104	75 - 125
Silver	<0.12		50.0	48.1		ug/L		96	75 - 125
Sodium	120000		10000	116000	4	ug/L		-76	75 - 125
Strontium	3300	B	1000	4320		ug/L		99	75 - 125
Thallium	<0.57		100	100		ug/L		100	75 - 125
Tin	<1.3		1000	1010		ug/L		101	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 792126

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved
Prep Batch: 791854

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vanadium	2.9	J B	500	473		ug/L		94	75 - 125
Zinc	<6.9		500	503		ug/L		101	75 - 125

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 792227

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved
Prep Batch: 791854

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.53		50.0	51.4		ug/L		103	75 - 125
Boron	200	B	1000	1170		ug/L		97	75 - 125
Calcium	170000		10000	200000	4	ug/L		261	75 - 125

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 792126

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved
Prep Batch: 791854

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	<25		2000	1980		ug/L		99	75 - 125	1	20
Antimony	<1.3		500	531		ug/L		106	75 - 125	1	20
Arsenic	0.73	J B	100	102		ug/L		101	75 - 125	0	20
Barium	560		500	1050		ug/L		98	75 - 125	7	20
Cadmium	<0.17		50.0	48.1		ug/L		96	75 - 125	2	20
Chromium	<1.1		200	181		ug/L		91	75 - 125	0	20
Cobalt	<0.40		500	456		ug/L		91	75 - 125	1	20
Copper	1.8	J	250	252		ug/L		100	75 - 125	0	20
Iron	<47		1000	950		ug/L		95	75 - 125	4	20
Lead	<0.19		100	101		ug/L		101	75 - 125	1	20
Lithium	64		100	158		ug/L		95	75 - 125	7	20
Magnesium	11000	B F1	10000	21200		ug/L		98	75 - 125	20	20
Manganese	570	F1 F2	500	1020	F2	ug/L		91	75 - 125	27	20
Molybdenum	<2.5		1000	968		ug/L		97	75 - 125	1	20
Nickel	0.72	J	500	469		ug/L		94	75 - 125	0	20
Potassium	750		10000	10500		ug/L		98	75 - 125	2	20
Selenium	<0.98		100	103		ug/L		103	75 - 125	1	20
Silver	<0.12		50.0	48.3		ug/L		97	75 - 125	1	20
Sodium	120000		10000	132000	4	ug/L		83	75 - 125	13	20
Strontium	3300	B	1000	4230		ug/L		90	75 - 125	2	20
Thallium	<0.57		100	101		ug/L		101	75 - 125	1	20
Tin	<1.3		1000	1010		ug/L		101	75 - 125	0	20
Vanadium	2.9	J B	500	472		ug/L		94	75 - 125	0	20
Zinc	<6.9		500	507		ug/L		101	75 - 125	1	20

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 792227

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved
Prep Batch: 791854

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.53		50.0	49.2		ug/L		98	75 - 125	4	20
Boron	200	B	1000	1170		ug/L		97	75 - 125	0	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 792227

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved
Prep Batch: 791854

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	170000		10000	179000	4	ug/L		58	75 - 125	11	20

Lab Sample ID: 500-257876-17 DU
Matrix: Water
Analysis Batch: 792126

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved
Prep Batch: 791854

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	<25		<25		ug/L		NC	20
Antimony	<1.3		<1.3		ug/L		NC	20
Arsenic	0.73	J B	0.749	J	ug/L		3	20
Barium	560		550		ug/L		1	20
Cadmium	<0.17		<0.17		ug/L		NC	20
Chromium	<1.1		<1.1		ug/L		NC	20
Cobalt	<0.40		<0.40		ug/L		NC	20
Copper	1.8	J	1.65	J	ug/L		7	20
Iron	<47		<47		ug/L		NC	20
Lead	<0.19		<0.19		ug/L		NC	20
Lithium	64		60.4		ug/L		6	20
Magnesium	11000	B F1	11300		ug/L		0.3	20
Manganese	570	F1 F2	546		ug/L		4	20
Molybdenum	<2.5		<2.5		ug/L		NC	20
Nickel	0.72	J	<0.63		ug/L		NC	20
Potassium	750		745		ug/L		1	20
Selenium	<0.98		<0.98		ug/L		NC	20
Silver	<0.12		<0.12		ug/L		NC	20
Sodium	120000		124000		ug/L		0.1	20
Strontium	3300	B	3260		ug/L		2	20
Thallium	<0.57		<0.57		ug/L		NC	20
Tin	<1.3		<1.3		ug/L		NC	20
Vanadium	2.9	J B	2.88	J	ug/L		0.7	20
Zinc	<6.9		<6.9		ug/L		NC	20

Lab Sample ID: 500-257876-17 DU
Matrix: Water
Analysis Batch: 792227

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved
Prep Batch: 791854

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.53		<0.53		ug/L		NC	20
Boron	200	B	211		ug/L		7	20
Calcium	170000		172000		ug/L		0.7	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-789102/3
Matrix: Water
Analysis Batch: 789102

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			10/04/24 11:39	1
Chloride	<0.12		1.0	0.12	mg/L			10/04/24 11:39	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-789102/3
Matrix: Water
Analysis Batch: 789102

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.19		1.0	0.19	mg/L			10/04/24 11:39	1
Sulfate	<0.21		1.0	0.21	mg/L			10/04/24 11:39	1

Lab Sample ID: MB 500-789102/65
Matrix: Water
Analysis Batch: 789102

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			10/05/24 03:48	1
Chloride	<0.12		1.0	0.12	mg/L			10/05/24 03:48	1
Fluoride	<0.19		1.0	0.19	mg/L			10/05/24 03:48	1
Sulfate	<0.21		1.0	0.21	mg/L			10/05/24 03:48	1

Lab Sample ID: LCS 500-789102/4
Matrix: Water
Analysis Batch: 789102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			20.0	18.6		mg/L		93	90 - 110		
Chloride			20.0	19.7		mg/L		99	90 - 110		
Fluoride			20.0	20.5		mg/L		102	90 - 110		
Sulfate			20.0	20.3		mg/L		101	90 - 110		

Lab Sample ID: LCS 500-789102/66
Matrix: Water
Analysis Batch: 789102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			20.0	18.7		mg/L		94	90 - 110		
Chloride			20.0	19.8		mg/L		99	90 - 110		
Fluoride			20.0	20.6		mg/L		103	90 - 110		
Sulfate			20.0	20.4		mg/L		102	90 - 110		

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 789102

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide	2.6		10.0	11.8		mg/L		92	80 - 120		
Fluoride	<0.19		10.0	9.39		mg/L		94	80 - 120		
Sulfate	2.0		10.0	12.0		mg/L		100	80 - 120		

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 789102

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	2.6		10.0	11.8		mg/L		92	80 - 120	0	20
Fluoride	<0.19		10.0	9.42		mg/L		94	80 - 120	0	20
Sulfate	2.0		10.0	11.9		mg/L		99	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-789103/3
Matrix: Water
Analysis Batch: 789103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			10/04/24 11:39	1
Nitrite as N	<0.070		1.0	0.070	mg/L			10/04/24 11:39	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			10/04/24 11:39	1

Lab Sample ID: MB 500-789103/65
Matrix: Water
Analysis Batch: 789103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.368	J	1.0	0.043	mg/L			10/05/24 03:48	1
Nitrite as N	<0.070		1.0	0.070	mg/L			10/05/24 03:48	1
Nitrate Nitrite as N	0.368	J	1.0	0.070	mg/L			10/05/24 03:48	1

Lab Sample ID: LCS 500-789103/4
Matrix: Water
Analysis Batch: 789103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	18.8		mg/L		94	90 - 110
Nitrite as N	20.0	20.3		mg/L		101	90 - 110
Nitrate Nitrite as N	40.0	39.1		mg/L		98	90 - 110

Lab Sample ID: LCS 500-789103/66
Matrix: Water
Analysis Batch: 789103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	18.9		mg/L		95	90 - 110
Nitrite as N	20.0	20.4		mg/L		102	90 - 110
Nitrate Nitrite as N	40.0	39.3		mg/L		98	90 - 110

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 789103

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	<0.043		10.0	8.75		mg/L		88	80 - 120
Nitrite as N	<0.070		10.0	10.0		mg/L		100	80 - 120
Nitrate Nitrite as N	<0.070		20.0	18.8		mg/L		94	80 - 120

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 789103

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.043		10.0	8.77		mg/L		88	80 - 120	0	20
Nitrite as N	<0.070		10.0	10.1		mg/L		101	80 - 120	0	20
Nitrate Nitrite as N	<0.070		20.0	18.9		mg/L		94	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-790938/33
Matrix: Water
Analysis Batch: 790938

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			10/16/24 23:57	1

Lab Sample ID: LCS 500-790938/34
Matrix: Water
Analysis Batch: 790938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			20.0	19.2		mg/L		96	90 - 110		

Lab Sample ID: MB 500-792265/3
Matrix: Water
Analysis Batch: 792265

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.152	J	1.0	0.12	mg/L			10/24/24 21:26	1

Lab Sample ID: LCS 500-792265/4
Matrix: Water
Analysis Batch: 792265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			20.0	19.3		mg/L		97	90 - 110		

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 792265

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	270	B	100	370		mg/L		104	80 - 120		

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 792265

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	270	B	100	381		mg/L		115	80 - 120	3	20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-790378/1-A
Matrix: Water
Analysis Batch: 790571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 790378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		10/13/24 10:49	10/14/24 14:01	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 500-790378/2-A
Matrix: Water
Analysis Batch: 790571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 790378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0960		mg/L		96	90 - 110

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 790571

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA
Prep Batch: 790378

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0040	J ^2	0.100	0.0990		mg/L		95	90 - 110

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 790571

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA
Prep Batch: 790378

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.0040	J ^2	0.100	0.0980		mg/L		94	90 - 110	1	20

Lab Sample ID: MB 500-790727/1-A
Matrix: Water
Analysis Batch: 790803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 790727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		10/15/24 11:53	10/15/24 15:55	1

Lab Sample ID: LCS 500-790727/2-A
Matrix: Water
Analysis Batch: 790803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 790727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.103		mg/L		103	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-791982/1-A
Matrix: Water
Analysis Batch: 792456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 791982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		10/23/24 12:12	10/25/24 15:53	1

Lab Sample ID: LCS 500-791982/2-A
Matrix: Water
Analysis Batch: 792456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 791982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.85		mg/L		92	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 500-792022/1-A
Matrix: Water
Analysis Batch: 792080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		10/23/24 14:53	10/23/24 18:08	1

Lab Sample ID: LCS 500-792022/2-A
Matrix: Water
Analysis Batch: 792080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792022

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.17		mg/L		108	90 - 110

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 792080

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA
Prep Batch: 792022

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	<0.10		2.00	1.96		mg/L		98	90 - 110

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 792080

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA
Prep Batch: 792022

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	<0.10		2.00	1.83		mg/L		92	90 - 110	7	20

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-789343/1-A
Matrix: Water
Analysis Batch: 789847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 789343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		10/07/24 09:25	10/09/24 15:21	1

Lab Sample ID: LCS 500-789343/2-A
Matrix: Water
Analysis Batch: 789847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 789343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.928		mg/L		93	88 - 123

Lab Sample ID: 500-257876-3 MS
Matrix: Water
Analysis Batch: 789847

Client Sample ID: SMW-3_20241002
Prep Type: Total/NA
Prep Batch: 789343

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	<0.024		1.00	0.955		mg/L		96	75 - 125

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: 500-257876-3 MSD — **Client Sample ID: SMW-3_20241002**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 789847 — **Prep Batch: 789343**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phosphorus as P	<0.024		1.00	0.958		mg/L		96	75 - 125	0	20

Lab Sample ID: MB 500-791606/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 792014 — **Prep Batch: 791606**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:12	1

Lab Sample ID: LCS 500-791606/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 792014 — **Prep Batch: 791606**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.932		mg/L		93	88 - 123

Lab Sample ID: 500-257876-17 MS — **Client Sample ID: MW-5A_20241002**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 792014 — **Prep Batch: 791606**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	<0.024		1.00	0.928		mg/L		93	75 - 125

Lab Sample ID: 500-257876-17 MSD — **Client Sample ID: MW-5A_20241002**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 792014 — **Prep Batch: 791606**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phosphorus as P	<0.024		1.00	0.926		mg/L		93	75 - 125	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-790858/28 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 790858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			10/15/24 16:04	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/15/24 16:04	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/15/24 16:04	1

Lab Sample ID: MB 500-790858/53 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 790858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			10/15/24 20:26	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/15/24 20:26	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/15/24 20:26	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 500-790858/29
Matrix: Water
Analysis Batch: 790858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	104		mg/L		104	95 - 121

Lab Sample ID: LCS 500-790858/4
Matrix: Water
Analysis Batch: 790858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	106		mg/L		106	95 - 121

Lab Sample ID: 500-257876-17 DU
Matrix: Water
Analysis Batch: 790858

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	350		357		mg/L		1	20
Bicarbonate Alkalinity as CaCO3	350		357		mg/L		1	20
Carbonate Alkalinity as CaCO3	<3.7		<3.7		mg/L		NC	20

Method: SM 2520B - Salinity

Lab Sample ID: 500-257876-11 DU
Matrix: Water
Analysis Batch: 792565

Client Sample ID: EB-01-GW_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Salinity	<0.33		<0.33		psu		NC	

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-789468/1
Matrix: Water
Analysis Batch: 789468

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			10/07/24 23:54	1

Lab Sample ID: LCS 500-789468/2
Matrix: Water
Analysis Batch: 789468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	262		mg/L		105	80 - 120

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 789468

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1100		250	1240	4	mg/L		76	75 - 125

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 789468

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1100		250	1230	4	mg/L		73	75 - 125	1	20

Lab Sample ID: 500-257876-15 DU
Matrix: Water
Analysis Batch: 789468

Client Sample ID: SMW-1_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	220			232		mg/L				4	5

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-789839/1
Matrix: Water
Analysis Batch: 789839

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			10/09/24 16:14	1

Lab Sample ID: LCS 500-789839/2
Matrix: Water
Analysis Batch: 789839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			200	184		mg/L		92	80 - 120		

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 789839

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids	<1.9		100	89.0		mg/L		89	75 - 125		

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 789839

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids	<1.9		100	92.0		mg/L		92	75 - 125	3	20

Lab Sample ID: MB 500-790040/1
Matrix: Water
Analysis Batch: 790040

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			10/10/24 15:22	1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 500-790040/2
Matrix: Water
Analysis Batch: 790040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			200	194		mg/L		97	80 - 120		

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-789592/1
Matrix: Water
Analysis Batch: 789592

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			10/08/24 02:28	1

Lab Sample ID: LCS 500-789592/2
Matrix: Water
Analysis Batch: 789592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			3.76	3.84		mg/L		102	85 - 115		

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 789592

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<0.23		3.76	4.30		mg/L		115	75 - 125		

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 789592

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.23		3.76	4.67		mg/L		124	75 - 125	8	20

Method: SM 5310C - TOC

Lab Sample ID: MB 500-791489/31
Matrix: Water
Analysis Batch: 791489

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			10/18/24 20:35	1

Lab Sample ID: MB 500-791489/7
Matrix: Water
Analysis Batch: 791489

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			10/18/24 09:21	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 500-791489/32
Matrix: Water
Analysis Batch: 791489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.2		mg/L		102	86 - 116

Lab Sample ID: LCS 500-791489/8
Matrix: Water
Analysis Batch: 791489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	9.44		mg/L		94	86 - 116

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 791489

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	3.3		10.0	13.6		mg/L		103	75 - 125

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 791489

Client Sample ID: MW-5A_20241002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	3.3		10.0	13.7		mg/L		104	75 - 125	1	20

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-791496/31
Matrix: Water
Analysis Batch: 791496

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			10/20/24 07:44	1

Lab Sample ID: MB 500-791790/7
Matrix: Water
Analysis Batch: 791790

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			10/22/24 11:16	1

Lab Sample ID: LCS 500-791790/8
Matrix: Water
Analysis Batch: 791790

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: 500-257876-17 MS
Matrix: Water
Analysis Batch: 791790

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Dissolved Organic Carbon	3.4		10.0	13.6		mg/L		102	75 - 125		

Lab Sample ID: 500-257876-17 MSD
Matrix: Water
Analysis Batch: 791790

Client Sample ID: MW-5A_20241002
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dissolved Organic Carbon	3.4		10.0	13.6		mg/L		102	75 - 125	0	20

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: MW-37_20241002
Date Collected: 10/02/24 10:30
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 16:18
Total Recoverable	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 19:40
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 19:52
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 12:11
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	SM 2340B		1	792185	DAJ	EET CHI	10/24/24 10:19
Total/NA	Analysis	300.0		1	789102	MM	EET CHI	10/05/24 06:55
Total/NA	Analysis	300.0		1	789103	MM	EET CHI	10/05/24 06:55
Total/NA	Prep	Distill/CN			790378	AC	EET CHI	10/13/24 10:49 - 10/13/24 11:19 [1]
Total/NA	Analysis	335.4		1	790571	AC	EET CHI	10/14/24 14:13
Total/NA	Prep	Distill/Ammonia			791982	EB	EET CHI	10/23/24 12:12 - 10/23/24 13:12 [1]
Total/NA	Analysis	350.1		1	792456	KF	EET CHI	10/25/24 15:54
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:30
Total/NA	Analysis	SM 2320B		1	790858	SO	EET CHI	10/15/24 15:13
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	789468	CLB	EET CHI	10/08/24 00:09
Total/NA	Analysis	SM 2540D		1	789839	SO	EET CHI	10/09/24 16:24 - 10/09/24 16:25 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789592	CLB	EET CHI	10/08/24 02:42 - 10/08/24 02:46 [1]
Total/NA	Analysis	SM 5310C		1	791489	TR	EET CHI	10/18/24 14:59

Client Sample ID: MW-37_20241002-FBLL
Date Collected: 10/02/24 10:30
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 16:27

Client Sample ID: SMW-3_20241002
Date Collected: 10/02/24 11:50
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3062	AJD	EET SSM	10/17/24 11:54
Dissolved	Analysis	1630		1	3088	CL	EET SSM	10/18/24 15:52
Total/NA	Prep	1630			3062	AJD	EET SSM	10/17/24 11:54
Total/NA	Analysis	1630		1	3088	CL	EET SSM	10/18/24 15:42
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 16:43
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 16:39
Dissolved	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 19:12

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: SMW-3_20241002

Lab Sample ID: 500-257876-3
Matrix: Water
Date Collected: 10/02/24 11:50
Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 19:43
Dissolved	Prep	3005A			791854	S1Z	EET CHI	10/22/24 16:14 - 10/22/24 22:14 [1]
Dissolved	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 18:48
Dissolved	Prep	3005A			791854	S1Z	EET CHI	10/22/24 16:14 - 10/22/24 22:14 [1]
Dissolved	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 12:48
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 19:56
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 12:13
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	SM 2340B		1	792185	DAJ	EET CHI	10/24/24 10:19
Total/NA	Analysis	300.0		1	789102	MM	EET CHI	10/05/24 06:40
Total/NA	Analysis	300.0		1	789103	MM	EET CHI	10/05/24 06:40
Total/NA	Prep	Distill/CN			790378	AC	EET CHI	10/13/24 10:49 - 10/13/24 11:19 [1]
Total/NA	Analysis	335.4		1	790571	AC	EET CHI	10/14/24 14:13
Total/NA	Prep	Distill/Ammonia			791982	EB	EET CHI	10/23/24 12:12 - 10/23/24 13:12 [1]
Total/NA	Analysis	350.1		1	792456	KF	EET CHI	10/25/24 15:54
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:31
Total/NA	Analysis	SM 2320B		1	790858	SO	EET CHI	10/15/24 15:32
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	789468	CLB	EET CHI	10/08/24 00:12
Total/NA	Analysis	SM 2540D		1	789839	SO	EET CHI	10/09/24 16:25 - 10/09/24 16:26 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789592	CLB	EET CHI	10/08/24 02:46 - 10/08/24 02:51 [1]
Dissolved	Analysis	SM 5310C		1	791496	TR	EET CHI	10/20/24 07:44
Total/NA	Analysis	SM 5310C		1	791489	TR	EET CHI	10/18/24 15:27

Client Sample ID: SMW-3_20241002-FBLL

Lab Sample ID: 500-257876-4
Matrix: Water
Date Collected: 10/02/24 11:50
Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 16:47

Client Sample ID: DUP-01-GW_20241002

Lab Sample ID: 500-257876-5
Matrix: Water
Date Collected: 10/02/24 23:59
Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3062	AJD	EET SSM	10/17/24 11:54
Dissolved	Analysis	1630		1	3088	CL	EET SSM	10/18/24 16:12
Total/NA	Prep	1630			3062	AJD	EET SSM	10/17/24 11:54
Total/NA	Analysis	1630		1	3088	CL	EET SSM	10/18/24 16:02

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: DUP-01-GW_20241002

Lab Sample ID: 500-257876-5

Date Collected: 10/02/24 23:59
Matrix: Water
Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 16:56
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 16:52
Dissolved	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 19:15
Total Recoverable	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 19:47
Dissolved	Prep	3005A			791854	S1Z	EET CHI	10/22/24 16:14 - 10/22/24 22:14 [1]
Dissolved	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 18:52
Dissolved	Prep	3005A			791854	S1Z	EET CHI	10/22/24 16:14 - 10/22/24 22:14 [1]
Dissolved	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 12:50
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 20:00
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 12:15
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	SM 2340B		1	792185	DAJ	EET CHI	10/24/24 10:19
Total/NA	Analysis	300.0		1	789102	MM	EET CHI	10/04/24 13:44
Total/NA	Analysis	300.0		1	789103	MM	EET CHI	10/04/24 13:44
Total/NA	Prep	Distill/CN			790378	AC	EET CHI	10/13/24 10:49 - 10/13/24 11:19 [1]
Total/NA	Analysis	335.4		1	790571	AC	EET CHI	10/14/24 14:14
Total/NA	Prep	Distill/Ammonia			791982	EB	EET CHI	10/23/24 12:12 - 10/23/24 13:12 [1]
Total/NA	Analysis	350.1		1	792456	KF	EET CHI	10/25/24 15:55
Total/NA	Prep	365.2/365.3/365			789343	ER	EET CHI	10/07/24 09:25 - 10/07/24 13:25 [1]
Total/NA	Analysis	365.1		1	789847	KF	EET CHI	10/09/24 15:32
Total/NA	Analysis	SM 2320B		1	790858	SO	EET CHI	10/15/24 15:43
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	789468	CLB	EET CHI	10/08/24 00:14
Total/NA	Analysis	SM 2540D		1	789839	SO	EET CHI	10/09/24 16:26 - 10/09/24 16:28 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789592	CLB	EET CHI	10/08/24 02:51 - 10/08/24 02:56 [1]
Dissolved	Analysis	SM 5310C		1	791496	TR	EET CHI	10/20/24 07:44
Total/NA	Analysis	SM 5310C		1	791489	TR	EET CHI	10/18/24 15:55

Client Sample ID: DUP-01-GW_20241002-FBLL

Lab Sample ID: 500-257876-6

Date Collected: 10/02/24 23:59
Matrix: Water
Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 17:00

Client Sample ID: NB1-3_20241002

Lab Sample ID: 500-257876-7

Date Collected: 10/02/24 12:15

Matrix: Water

Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3062	AJD	EET SSM	10/17/24 11:54
Dissolved	Analysis	1630		1	3088	CL	EET SSM	10/18/24 16:33
Total/NA	Prep	1630			3062	AJD	EET SSM	10/17/24 11:54
Total/NA	Analysis	1630		1	3088	CL	EET SSM	10/18/24 16:22
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 17:08
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 17:04
Dissolved	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 19:26
Total Recoverable	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 19:50
Dissolved	Prep	3005A			791854	S1Z	EET CHI	10/22/24 16:14 - 10/22/24 22:14 [1]
Dissolved	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 19:03
Dissolved	Prep	3005A			791854	S1Z	EET CHI	10/22/24 16:14 - 10/22/24 22:14 [1]
Dissolved	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 12:53
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 20:04
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 12:18
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	SM 2340B		1	792185	DAJ	EET CHI	10/24/24 10:19
Total/NA	Analysis	300.0		1	789102	MM	EET CHI	10/05/24 06:24
Total/NA	Analysis	300.0		1	789103	MM	EET CHI	10/05/24 06:24
Total/NA	Analysis	300.0		10	790938	MM	EET CHI	10/17/24 07:00
Total/NA	Prep	Distill/CN			790378	AC	EET CHI	10/13/24 10:49 - 10/13/24 11:19 [1]
Total/NA	Analysis	335.4		1	790571	AC	EET CHI	10/14/24 14:14
Total/NA	Prep	Distill/Ammonia			791982	EB	EET CHI	10/23/24 12:12 - 10/23/24 13:12 [1]
Total/NA	Analysis	350.1		1	792456	KF	EET CHI	10/25/24 15:56
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:15
Total/NA	Analysis	SM 2320B		1	790858	SO	EET CHI	10/15/24 15:53
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	789468	CLB	EET CHI	10/08/24 00:17
Total/NA	Analysis	SM 2540D		1	789839	SO	EET CHI	10/09/24 16:28 - 10/09/24 16:29 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789592	CLB	EET CHI	10/08/24 02:56 - 10/08/24 03:00 [1]
Dissolved	Analysis	SM 5310C		1	791496	TR	EET CHI	10/20/24 07:44
Total/NA	Analysis	SM 5310C		1	791489	TR	EET CHI	10/18/24 16:23

Client Sample ID: NB1-3_20241002-FBLL

Lab Sample ID: 500-257876-8

Date Collected: 10/02/24 12:15

Matrix: Water

Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 17:12

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: CBR-02_20241003

Lab Sample ID: 500-257876-9

Date Collected: 10/03/24 09:45

Matrix: Water

Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3106	JS	EET SSM	10/23/24 11:27
Dissolved	Analysis	1630		1	3129	CL	EET SSM	10/24/24 17:14
Total/NA	Prep	1630			3062	AJD	EET SSM	10/17/24 11:54
Total/NA	Analysis	1630		1	3088	CL	EET SSM	10/18/24 16:43
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 17:29
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 17:17
Dissolved	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 19:29
Total Recoverable	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 19:54
Dissolved	Prep	3005A			791854	S1Z	EET CHI	10/22/24 16:14 - 10/22/24 22:14 [1]
Dissolved	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 19:07
Dissolved	Prep	3005A			791854	S1Z	EET CHI	10/22/24 16:14 - 10/22/24 22:14 [1]
Dissolved	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 12:55
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 20:08
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 12:20
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	SM 2340B		1	792185	DAJ	EET CHI	10/24/24 10:19
Total/NA	Analysis	300.0		1	789102	MM	EET CHI	10/05/24 05:37
Total/NA	Analysis	300.0		1	789103	MM	EET CHI	10/05/24 05:37
Total/NA	Prep	Distill/CN			790378	AC	EET CHI	10/13/24 10:49 - 10/13/24 11:19 [1]
Total/NA	Analysis	335.4		1	790571	AC	EET CHI	10/14/24 14:16
Total/NA	Prep	Distill/Ammonia			791982	EB	EET CHI	10/23/24 12:12 - 10/23/24 13:12 [1]
Total/NA	Analysis	350.1		1	792456	KF	EET CHI	10/25/24 15:56
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:16
Total/NA	Analysis	SM 2320B		1	790858	SO	EET CHI	10/15/24 20:04
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	789468	CLB	EET CHI	10/08/24 00:19
Total/NA	Analysis	SM 2540D		1	790040	SO	EET CHI	10/10/24 15:41 - 10/10/24 15:43 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789592	CLB	EET CHI	10/08/24 03:00 - 10/08/24 03:05 [1]
Dissolved	Analysis	SM 5310C		1	791496	TR	EET CHI	10/20/24 07:44
Total/NA	Analysis	SM 5310C		1	791489	TR	EET CHI	10/18/24 16:51

Client Sample ID: CBR-02_20241003-FBLL

Lab Sample ID: 500-257876-10

Date Collected: 10/03/24 09:45

Matrix: Water

Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 17:33

Client Sample ID: EB-01-GW_20241002

Lab Sample ID: 500-257876-11

Date Collected: 10/02/24 17:00

Matrix: Water

Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1630			3106	JS	EET SSM	10/23/24 11:27
Total/NA	Analysis	1630		1	3129	CL	EET SSM	10/24/24 17:25
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 17:37
Total Recoverable	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 19:57
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 20:11
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 12:22
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	SM 2340B		1	792185	DAJ	EET CHI	10/24/24 10:19
Total/NA	Analysis	300.0		1	789102	MM	EET CHI	10/04/24 13:28
Total/NA	Analysis	300.0		1	789103	MM	EET CHI	10/04/24 13:28
Total/NA	Prep	Distill/CN			790378	AC	EET CHI	10/13/24 10:49 - 10/13/24 11:19 [1]
Total/NA	Analysis	335.4		1	790571	AC	EET CHI	10/14/24 14:17
Total/NA	Prep	Distill/Ammonia			791982	EB	EET CHI	10/23/24 12:12 - 10/23/24 13:12 [1]
Total/NA	Analysis	350.1		1	792456	KF	EET CHI	10/25/24 15:57
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:17
Total/NA	Analysis	SM 2320B		1	790858	SO	EET CHI	10/15/24 16:17
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	789468	CLB	EET CHI	10/08/24 00:22
Total/NA	Analysis	SM 2540D		1	789839	SO	EET CHI	10/09/24 16:29 - 10/09/24 16:31 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789592	CLB	EET CHI	10/08/24 03:05 - 10/08/24 03:10 [1]
Total/NA	Analysis	SM 5310C		1	791489	TR	EET CHI	10/18/24 17:19

Client Sample ID: EB-01-GW_20241002-FBLL

Lab Sample ID: 500-257876-12

Date Collected: 10/02/24 17:00

Matrix: Water

Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 17:41

Client Sample ID: NB1-1_20241002

Lab Sample ID: 500-257876-13

Date Collected: 10/02/24 13:30

Matrix: Water

Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3106	JS	EET SSM	10/23/24 11:27
Dissolved	Analysis	1630		1	3129	CL	EET SSM	10/24/24 17:45
Total/NA	Prep	1630			3106	JS	EET SSM	10/23/24 11:27
Total/NA	Analysis	1630		1	3129	CL	EET SSM	10/24/24 17:35
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 15:37
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 17:46

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: NB1-1_20241002

Date Collected: 10/02/24 13:30
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 19:33
Total Recoverable	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 20:08
Dissolved	Prep	3005A			791854	S1Z	EET CHI	10/22/24 16:14 - 10/22/24 22:14 [1]
Dissolved	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 19:11
Dissolved	Prep	3005A			791854	S1Z	EET CHI	10/22/24 16:14 - 10/22/24 22:14 [1]
Dissolved	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 12:57
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 20:15
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 12:25
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	SM 2340B		1	792185	DAJ	EET CHI	10/24/24 10:19
Total/NA	Analysis	300.0		1	789102	MM	EET CHI	10/04/24 12:10
Total/NA	Analysis	300.0		1	789103	MM	EET CHI	10/04/24 12:10
Total/NA	Analysis	300.0		10	790938	MM	EET CHI	10/17/24 07:46
Total/NA	Prep	Distill/CN			790727	AC	EET CHI	10/15/24 11:53 - 10/15/24 12:23 [1]
Total/NA	Analysis	335.4		1	790803	AC	EET CHI	10/15/24 16:15
Total/NA	Prep	Distill/Ammonia			791982	EB	EET CHI	10/23/24 12:12 - 10/23/24 13:12 [1]
Total/NA	Analysis	350.1		1	792456	KF	EET CHI	10/25/24 15:57
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:17
Total/NA	Analysis	SM 2320B		1	790858	SO	EET CHI	10/15/24 16:49
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	789468	CLB	EET CHI	10/08/24 00:25
Total/NA	Analysis	SM 2540D		1	789839	SO	EET CHI	10/09/24 16:31 - 10/09/24 16:32 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789592	CLB	EET CHI	10/08/24 03:10 - 10/08/24 03:14 [1]
Dissolved	Analysis	SM 5310C		1	791496	TR	EET CHI	10/20/24 07:44
Total/NA	Analysis	SM 5310C		1	791489	TR	EET CHI	10/18/24 17:47

Client Sample ID: NB1-1_20241002-FBLL

Date Collected: 10/02/24 13:30
Date Received: 10/04/24 09:00

Lab Sample ID: 500-257876-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 15:49

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Client Sample ID: SMW-1_20241002

Lab Sample ID: 500-257876-15

Date Collected: 10/02/24 16:30

Matrix: Water

Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3106	JS	EET SSM	10/23/24 11:27
Dissolved	Analysis	1630		1	3129	CL	EET SSM	10/24/24 18:05
Total/NA	Prep	1630			3106	JS	EET SSM	10/23/24 11:27
Total/NA	Analysis	1630		1	3129	CL	EET SSM	10/24/24 17:55
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 15:58
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 15:54
Dissolved	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 19:36
Total Recoverable	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 20:12
Dissolved	Prep	3005A			791854	S1Z	EET CHI	10/22/24 16:14 - 10/22/24 22:14 [1]
Dissolved	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 19:15
Dissolved	Prep	3005A			791854	S1Z	EET CHI	10/22/24 16:14 - 10/22/24 22:14 [1]
Dissolved	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 13:00
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 20:19
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 12:27
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	SM 2340B		1	792185	DAJ	EET CHI	10/24/24 10:19
Total/NA	Analysis	300.0		1	789102	MM	EET CHI	10/04/24 13:13
Total/NA	Analysis	300.0		1	789103	MM	EET CHI	10/04/24 13:13
Total/NA	Prep	Distill/CN			790378	AC	EET CHI	10/13/24 10:49 - 10/13/24 11:19 [1]
Total/NA	Analysis	335.4		1	790571	AC	EET CHI	10/14/24 14:18
Total/NA	Prep	Distill/Ammonia			791982	EB	EET CHI	10/23/24 12:12 - 10/23/24 13:12 [1]
Total/NA	Analysis	350.1		1	792456	KF	EET CHI	10/25/24 15:58
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:17
Total/NA	Analysis	SM 2320B		1	790858	SO	EET CHI	10/15/24 17:00
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	789468	CLB	EET CHI	10/08/24 00:27
Total/NA	Analysis	SM 2540D		1	789839	SO	EET CHI	10/09/24 16:32 - 10/09/24 16:34 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789592	CLB	EET CHI	10/08/24 03:14 - 10/08/24 03:19 [1]
Dissolved	Analysis	SM 5310C		1	791496	TR	EET CHI	10/20/24 07:44
Total/NA	Analysis	SM 5310C		1	791489	TR	EET CHI	10/18/24 21:31

Client Sample ID: SMW-1_20241002-FBLL

Lab Sample ID: 500-257876-16

Date Collected: 10/02/24 16:30

Matrix: Water

Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 16:02

Client Sample ID: MW-5A_20241002

Lab Sample ID: 500-257876-17

Date Collected: 10/02/24 15:00

Matrix: Water

Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3062	AJD	EET SSM	10/17/24 11:54
Dissolved	Analysis	1630		1	3088	CL	EET SSM	10/18/24 14:30
Total/NA	Prep	1630			3062	AJD	EET SSM	10/17/24 11:54
Total/NA	Analysis	1630		1	3088	CL	EET SSM	10/18/24 14:00
Dissolved	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 12:01
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 11:57
Dissolved	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Dissolved	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 16:44
Total Recoverable	Prep	1638			3011	V1R	EET SSM	10/10/24 16:55
Total Recoverable	Analysis	1638		1	3037	V1R	EET SSM	10/11/24 16:55
Dissolved	Prep	3005A			791854	S1Z	EET CHI	10/22/24 16:14 - 10/22/24 22:14 [1]
Dissolved	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 19:18
Dissolved	Prep	3005A			791854	S1Z	EET CHI	10/22/24 16:14 - 10/22/24 22:14 [1]
Dissolved	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 13:07
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792126	RN	EET CHI	10/23/24 20:30
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	792227	RN	EET CHI	10/24/24 12:29
Total Recoverable	Prep	3005A			791853	S1Z	EET CHI	10/22/24 15:43 - 10/22/24 21:43 [1]
Total Recoverable	Analysis	SM 2340B		1	792185	DAJ	EET CHI	10/24/24 10:19
Total/NA	Analysis	300.0		1	789102	MM	EET CHI	10/04/24 12:26
Total/NA	Analysis	300.0		1	789103	MM	EET CHI	10/04/24 12:26
Total/NA	Analysis	300.0		10	792265	MM	EET CHI	10/25/24 04:27
Total/NA	Prep	Distill/CN			790378	AC	EET CHI	10/13/24 10:49 - 10/13/24 11:19 [1]
Total/NA	Analysis	335.4		1	790571	AC	EET CHI	10/14/24 14:21
Total/NA	Prep	Distill/Ammonia			792022	EB	EET CHI	10/23/24 14:53 - 10/23/24 15:53 [1]
Total/NA	Analysis	350.1		1	792080	KF	EET CHI	10/23/24 18:09
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:18
Total/NA	Analysis	SM 2320B		1	790858	SO	EET CHI	10/15/24 16:21
Total/NA	Analysis	SM 2520B		1	792565	TR	EET CHI	10/28/24 07:34
Total/NA	Analysis	SM 2540C		1	789468	CLB	EET CHI	10/08/24 00:32
Total/NA	Analysis	SM 2540D		1	789839	SO	EET CHI	10/09/24 16:34 - 10/09/24 16:35 [1]
Total/NA	Analysis	SM 4500 S2 F		1	789592	CLB	EET CHI	10/08/24 03:19 - 10/08/24 03:24 [1]
Dissolved	Analysis	SM 5310C		1	791790	TR	EET CHI	10/22/24 11:16
Total/NA	Analysis	SM 5310C		1	791489	TR	EET CHI	10/18/24 18:15

Client Sample ID: MW-5A_20241002-FBLL

Lab Sample ID: 500-257876-18

Date Collected: 10/02/24 15:00

Matrix: Water

Date Received: 10/04/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3018	COW	EET SSM	10/10/24 11:53

Lab Chronicle

Client: White Pine Copper LLC
Job ID: 500-257876-1
Project/Site: White Pines, MI

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-257876-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24 *
South Carolina	State	77001003	05-31-25
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-25
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	12-18-24
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-25
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2570	COC No: 500-127995-50241 43
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 570-257876
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

500-257876 COC

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
1	MW-37-20241002	10-02-24	1030	G	Water			✓	✓	✓	✓	✓	✓	✓	✓				✓		13	
2	MW-37_20241002-FBLL	10-02-24	1030	G	Water										✓						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	10-02-24 / 1900		4145 7025 2570	10-3-24 1400	Fedex
2	Relinquished by:	Date/Time:	Company	Received by: Stephanie Hernandez	10/4/24 0900	EETA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No: | Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 414570252478	COC No: 500-127995-50241 18
Client Contact: Amanda Zeidler	Phone: 906 487 7454	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-25787P
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
3	SMW 3_20241002	10 2 24	1150	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
4	SMW 3_20241002_FBL	10 2 24	1150	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	10 2 24 / 18.00	MSG		10-3-24 0800	MSG
2		10-3-24 1400	MSG	FedEx 414570252478	10-3-24 1400	Fedex
3		Date/Time	Company	Stephanie Heman	10/4/24 0900	EEA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 414570252489	COC No.: 500-127995-50241 30
Client Contact: Amanda Zeidler	Phone: 906 487 7454	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257876
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
5 DUP 01-GW-20241002	10 2 24	—	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	2	
p DUP 01 GW-20241002-FBLL	10 2 24	—	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	10 2 24 / 18:00	MSG		10-3-24 0800	MSG
2		10-3-24 0800	MSG	FedEx 414570252489	10-3-24 1400	FedEx
3		Date/Time	Company	Received by: Stephanie Herrera	Date/Time 10/4/24 0900	Company EEA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 70252490	COC No.: 500-127995-50241 50
Client Contact.: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257876
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project. Δ Yes Δ No			
Phone: 906-204-6500	PO #.: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#.			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
					Preservation Code:			S	N	CB	B	S	D	D	N	A	D	D	N	A		
7	NB1-3_20241002	10-2-24	1215	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
8	NB1-3_20241002_FBLL	10-2-24	1215	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	10-2-24 1800	MSG		10-3-24 0800	MSG
2		10-3-24 1400	MSG	FedEx 414570252490	10-3-24 1400	Fedex
3		Date/Time	Company	Received by: Stephanie Hemenoff	10/4/24 0900	EDA

Custody Seals Intact Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2560	COC No: 500-127995-50241 19
Client Contact: Amanda Zeidler	Phone: 906.487-7454	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-251874
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
9 CBR-02_20241003	10-3-24	9:45	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
10 CBR-02_20241003_FBLK	10-3-24	9:45	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jacob Dean	10-3-24 / 11:00	MSG	4145 7025 2560	10-3-24 1400	Fedex
Relinquished by:	Date/Time:	Company	Received by: Stephanie Hemelt	10/4/24 0900	EEA
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2559	COC No: 500-127995-50241 39
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257876
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B - NaOH
D HNO3
A - HCL
Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
11	EB-01-GW_20241002	10-02-24	1700	G	Water			√	√	√	√		√	√	√	√					14	
12	EB-01-GW_20241002_FBLL	10-02-24	1700	G	Water										√						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	10-02-24 / 1900	MSG	4145 7025 2559	10-03-24 / 1400	Fedex
2				Stephanie Hall	10/4/24 9:00	ELLA
3						

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 414570252504	COC No.: 500-127995-50241 21
Client Contact: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257876
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
13	NB1-1_20241002	10-2-24	1330	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
14	NB1-1_20241002_FBLL	10-2-24	1330	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	10-2-24 1800	MSG		10-3-24 0800	MSG
2		10-3-24 1400	MSG	FedEx 414570252504	10-3-24 1400	Fedex
3		Date/Time	Company		10/4/24 0900	EEL

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2548	COC No: 500-127995-50241 41
Client Contact: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257876
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

Analysis Requested

Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL; Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
15 SMW-1_20241002	10-2-24	1630	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
16 SMW-1_20241002_FBLL	10-2-24	1630	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Ellen Coppernoll	10-2-24 1900	MSG	4145 7025 2548	10-3-24 1400	Fedex
Relinquished by	Date/Time	Company	Received by: Stephanie Holland	Date/Time: 10/4/24 0900	Company: EEHA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 414570252515	COC No: 500-127995-50241 53
Client Contact: Amanda Zeidler	Phone: 906 487-7454	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257876
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
17	MW 5A_ 20241002	10-2 24	1500	G	Water		X	X	X	X	X	X	X	X	X	X	X	X	X	X	66	MS/MSD
18	MW-5A_20241002_TBLL	10-2 24	1500	G	Water		X								X						6	Collected
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	10-2-24 1800	MSG		10-3-24 0800	MSG
2		10-3-24 1400	MSG	FedEx 414570252515	10-3-24 1400	Fedex
3		Date/Time	Company	Stephanie Hemo	10/4/24 0900	ETH

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2570	COC No: 500-127995-50241 43
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 570-257876
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

500-257876 COC

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
1	MW-37-20241002	10-02-24	1030	G	Water			✓	✓	✓	✓	✓	✓	✓	✓				✓		13	
2	MW-37_20241002-FBLL	10-02-24	1030	G	Water										✓						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Elliott	10-02-24 / 1900		4145 7025 2570	10-3-24 1400	Fedex
2	Relinquished by:	Date/Time	Company	Received by: Stephanie Hernandez	10/4/24 0900	EETA
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 414570252478	COC No: 500-127995-50241 18
Client Contact: Amanda Zeidler	Phone: 906 487 7454	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 510-257870
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
3	SMW 3_20241002	10 2 24	1150	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
4	SMW 3_20241002_FBL	10 2 24	1150	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	10 2 24 / 18.00	MSG		10-3-24 0800	MSG
2		10-3-24 1400	MSG	FedEx 414570252478	10-3-24 1400	FedEx
3		Date/Time	Company	Stephanie Heman	10/4/24 0900	EEA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 414570252489	COC No.: 500-127995-50241 30
Client Contact: Amanda Zeidler	Phone: 906 487 7454	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257876
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
5 DUP 01-GW-20241002	10 2 24	—	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	2	
p DUP 01 GW-20241002-FBLL	10 2 24	—	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: FedEx Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	10 224 / 18:00	MSG		10-3-24 0800	MSG
2		10-3-24 0800	MSG	FedEx 414570252489	10-3-24 1400	FedEx
3		Date/Time	Company	Received by: Stephanie Herrera	Date/Time 10/4/24 0900	Company EEA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 70252490	COC No.: 500-127995-50241 50
Client Contact.: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:	Analysis Requested		Job #: 500-257876
Address: 35503 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			Other
Site:	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
7	NB1-3_20241002	10-2-24	1215	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
8	NB1-3_20241002_FBLL	10-2-24	1215	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	10-2-24 1800	MSG		10-3-24 0800	MSG
2		10-3-24 1400	MSG	FedEx 414570252490	10-3-24 1400	Fedex
3		Date/Time	Company	Received by: Stephanie Hemenoff	10/4/24 0900	EDA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2560	COC No: 500-127995-50241 19
Client Contact: Amanda Zeidler	Phone: 906.487-7454	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-251874
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
9	CBR-02_20241003	10-3-24	9:45	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
10	CBR-02_20241003_FBLK	10-3-24	9:45	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	10-3-24 / 11:00	MSG	4145 7025 2560	10-3-24 1400	Fedex
2		Date/Time:	Company	Received by: Stephanie Hemelt	10/4/24 0900	EEA
3		Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2559	COC No: 500-127995-50241 39
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257876
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B - NaOH
D HNO3
A - HCL
Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
11	EB-01-GW_20241002	10-02-24	1700	G	Water			√	√	√	√		√	√	√	√					14	
12	EB-01-GW_20241002_FBLL	10-02-24	1700	G	Water										√						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	10-02-24 / 1900	MSG	4145 7025 2559	10-03-24 / 1400	Fedex
2				[signature]	10/4/24 0900	ET-IA
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 414570252504	COC No.: 500-127995-50241 21
Client Contact: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257876
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
13	NB1-1_20241002	10-2-24	1330	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
14	NB1-1_20241002_FBLL	10-2-24	1330	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	10-2-24 1800	MSG		10-3-24 0800	MSG
2		10-3-24 1400	MSG	FedEx 414570252504	10-3-24 1400	Fedex
3		Date/Time	Company		10/4/24 0900	EEL

Custody Seals Intact. Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 2548	COC No: 500-127995-50241 41
Client Contact: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257876
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL; Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
15 SMW-1_20241002	10-2-24	1630	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
16 SMW-1_20241002_FBLL	10-2-24	1630	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Ellen Coppernoll	10-2-24 1900	MSG	4145 7025 2548	10-3-24 1400	Fedex
Relinquished by	Date/Time	Company	Received by: Stephanie Holland	10/4/24 0900	EEA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Ver 04/02/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 414570252515	COC No: 500-127995-50241 53
Client Contact: Amanda Zeidler	Phone: 906 487-7454	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-257876
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
17	MW 5A_ 20241002	10-2 24	1500	G	Water		X	X	X	X	X	X	X	X	X	X	X	X	X	X	66	MS/MSD
18	MW-5A_20241002_TBLL	10-2 24	1500	G	Water		X								X						6	Collected
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	10-2-24 1800	MSG		10-3-24 0800	MSG
2		10-3-24 1400	MSG	FedEx 414570252515	10-3-24 1400	Fedex
3		Date/Time	Company	Stephanie Hemo	10/4/24 0900	ETH

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks:

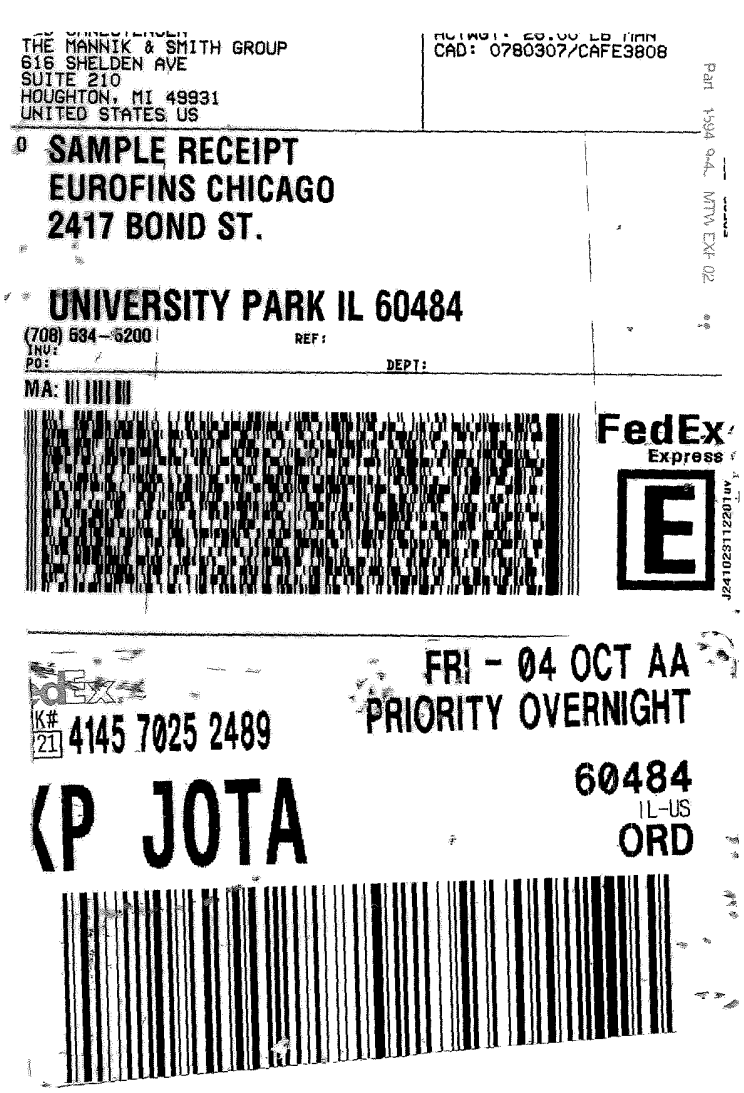






500-257876 Waybi


THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
CAD: 0780307/CAFE3808
SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-6200
REF:
INV:
PO:
DEPT:
RMA:
FedEx Express
RETURNS MON-SAT
FRI - 04 OCT AA
PRIORITY OVERNIGHT
TRK# 0221 4145 7025 2526
XP JOTA
60484
IL-US
ORD

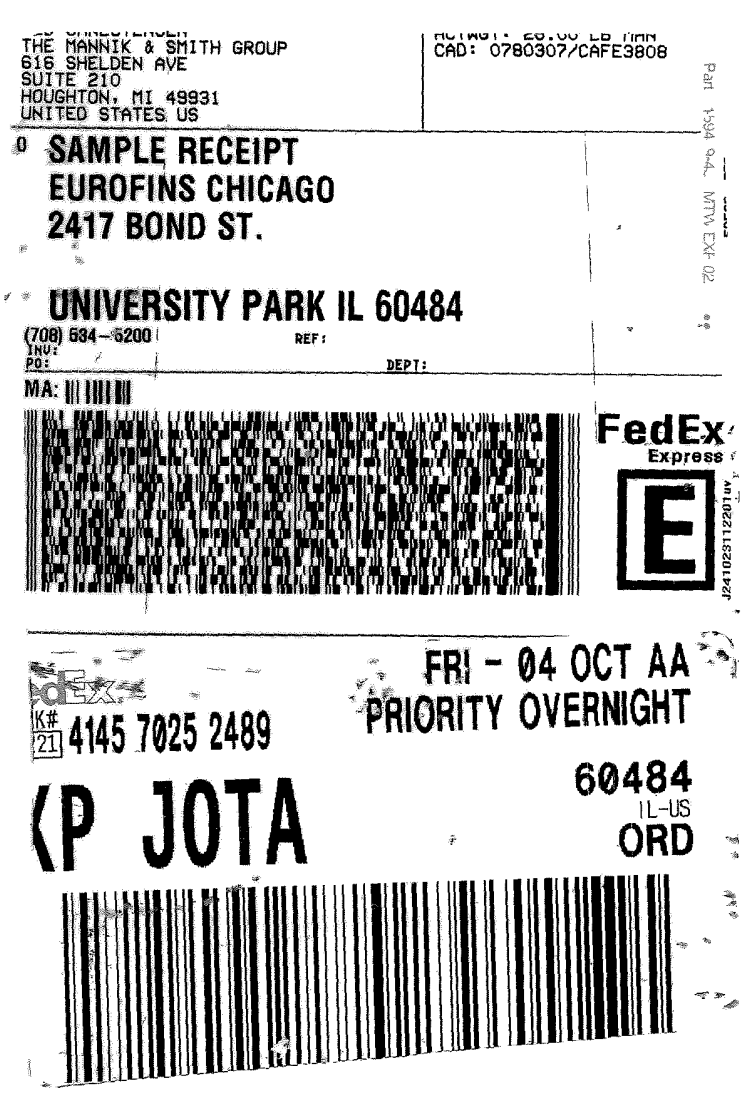

THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
CAD: 0780307/CAFE3808
SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-6200
REF:
INV:
PO:
DEPT:
FedEx Express
FRI - 04 OCT AA
PRIORITY OVERNIGHT
TRK# 21 4145 7025 2489
60484
IL-US
ORD





500-257876 Waybi


THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
CAD: 0780307/CAFE3808
SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-6200
REF:
INV:
PO:
DEPT:
RMA:
FedEx
Express
RETURNS MON-SAT
PRIORITY OVERNIGHT
TRK# 4145 7025 2526
FedEx
TRK# 0221 4145 7025 2526
FRI - 04 OCT AA
PRIORITY OVERNIGHT
XP JOTA
60484
IL-US
ORD


THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
CAD: 0780307/CAFE3808
SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-6200
REF:
INV:
PO:
DEPT:
FedEx
Express
FedEx
TRK# 21 4145 7025 2489
FRI - 04 OCT AA
PRIORITY OVERNIGHT
XP JOTA
60484
IL-US
ORD

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/29/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193433.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 3
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257876-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/24/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			Other:
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-37_20241002 (500-257876-1)	10/2/24	10:30 Eastern	G	Water			X	X	X				5	
MW-37_20241002-FBLL (500-257876-2)	10/2/24	10:30 Eastern	G	Water				X					2	
SMW-3_20241002 (500-257876-3)	10/2/24	11:50 Eastern	G	Water			X	X	X	X	X	X	8	
SMW-3_20241002-FBLL (500-257876-4)	10/2/24	11:50 Eastern	G	Water				X					2	
DUP-01-GW_20241002 (500-257876-5)	10/2/24	23:59 Eastern	G	Water			X	X	X	X	X	X	8	
DUP-01-GW_20241002-FBLL (500-257876-6)	10/2/24	23:59 Eastern	G	Water				X					2	
NB1-3_20241002 (500-257876-7)	10/2/24	12:15 Eastern	G	Water			X	X	X	X	X	X	8	
NB1-3_20241002-FBLL (500-257876-8)	10/2/24	12:15 Eastern	G	Water				X					2	
CBR-02_20241003 (500-257876-9)	10/3/24	09:45 Eastern	G	Water			X	X	X	X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 10/4/24 1600	Company	Received by:	Date/Time: 10/5/24 0900	Company ESTN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: Temp on last page

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193433.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 3
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257876-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/24/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			Other:
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
CBR-02_20241003-FBLL (500-257876-10)	10/3/24	09:45 Eastern	G	Water				X					2	
EB-01-GW_20241002 (500-257876-11)	10/2/24	17:00 Eastern	G	Water			X	X	X				4	
EB-01-GW_20241002-FBLL (500-257876-12)	10/2/24	17:00 Eastern	G	Water				X					2	
NB1-1_20241002 (500-257876-13)	10/2/24	13:30 Eastern	G	Water			X	X	X	X	X	X	8	
NB1-1_20241002-FBLL (500-257876-14)	10/2/24	13:30 Eastern	G	Water				X					2	
SMW-1_20241002 (500-257876-15)	10/2/24	16:30 Eastern	G	Water			X	X	X	X	X	X	8	
SMW-1_20241002-FBLL (500-257876-16)	10/2/24	16:30 Eastern	G	Water				X					2	
MW-5A_20241002 (500-257876-17)	10/2/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	
MW-5A_20241002 (500-257876-17MS)	10/2/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 10/4/24 1600	Company	Received by:	Date/Time: 10/5/24 0930	Company: EET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/29/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193433.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 3 of 3
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257876-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/24/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-5A_20241002 (500-257876-17MSD)	10/2/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	
MW-5A_20241002-FBLL (500-257876-18)	10/2/24	15:00 Eastern	G	Water				X					2	
MW-5A_20241002-FBLL (500-257876-18MS)	10/2/24	15:00 Eastern	G	Water				X					2	
MW-5A_20241002-FBLL (500-257876-18MSD)	10/2/24	15:00 Eastern	G	Water				X					2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 10/2/24 1600	Company	Received by:		Date/Time: 10/3/24 0930	Company FEDEX	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

herm. ID: 14 Cor: 1.2 ° Unc: 0.5 °
ooler Dsc: LB
acking: NO
ust. Seal: Yes X No
lue Ice, Wet, Dry, None
FedEx: P.O.
UPS:
Lab Cour:
Other:
#1

herm. ID: 14 Cor: 4.0 ° Unc: 3.6 °
ooler Dsc: LB
acking: BUB
ust. Seal: Yes X No
lue Ice, Wet, Dry, None
FedEx: P.O.
UPS:
Lab Cour:
Other:
#2

herm. ID: 14 Cor: 2.3 ° Unc: 1.9 °
ooler Dsc:
acking: LB BUB
ust. Seal: Yes No
lue Ice, Wet, Dry, None
FedEx: PO
UPS:
Lab Cour:
Other:
#3

herm. ID: 14 Cor: 4.7 ° Unc: 4.3 °
ooler Dsc: LB
acking: BUB
ust. Seal: Yes X No
lue Ice, Wet, Dry, None
FedEx: P.O.
UPS:
Lab Cour:
Other:
#4

herm. ID: 14 Cor: 1.2 ° Unc: 0.8 °
ooler Dsc: LB
acking: NO
ust. Seal: Yes X No ____
lue Ice, Wet, Dry, None
FedEx: P.O.
UPS: ____
Lab Cour: ____
Other: ____
#1

herm. ID: 14 Cor: 4.0 ° Unc: 3.6 °
ooler Dsc: LB
acking: BUB
ust. Seal: Yes X No ____
lue Ice, Wet, Dry, None
FedEx: P.O.
UPS: ____
Lab Cour: ____
Other: ____
#2

herm. ID: 14 Cor: 2.3 ° Unc: 1.9 °
ooler Dsc: ____
acking: LB BUB
ust. Seal: Yes X No ____
lue Ice, Wet, Dry, None
FedEx: PS
UPS: ____
Lab Cour: ____
Other: ____
#3

herm. ID: 14 Cor: 4.7 ° Unc: 4.3 °
ooler Dsc: LB
acking: BUB
ust. Seal: Yes X No ____
lue Ice, Wet, Dry, None
FedEx: P.O.
UPS: ____
Lab Cour: ____
Other: ____
#4

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/29/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193433.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 3
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257876-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/24/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			Other:
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-37_20241002 (500-257876-1)	10/2/24	10:30 Eastern	G	Water			X	X	X				5	
MW-37_20241002-FBLL (500-257876-2)	10/2/24	10:30 Eastern	G	Water				X					2	
SMW-3_20241002 (500-257876-3)	10/2/24	11:50 Eastern	G	Water			X	X	X	X	X	X	8	
SMW-3_20241002-FBLL (500-257876-4)	10/2/24	11:50 Eastern	G	Water				X					2	
DUP-01-GW_20241002 (500-257876-5)	10/2/24	23:59 Eastern	G	Water			X	X	X	X	X	X	8	
DUP-01-GW_20241002-FBLL (500-257876-6)	10/2/24	23:59 Eastern	G	Water				X					2	
NB1-3_20241002 (500-257876-7)	10/2/24	12:15 Eastern	G	Water			X	X	X	X	X	X	8	
NB1-3_20241002-FBLL (500-257876-8)	10/2/24	12:15 Eastern	G	Water				X					2	
CBR-02_20241003 (500-257876-9)	10/3/24	09:45 Eastern	G	Water			X	X	X	X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: [signature]	Date/Time: 10/4/24 1600	Company	Received by: [signature]	Date/Time: 10/5/24 0900	Company ESTN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: Temp on last page

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193433.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 3
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257876-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/24/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
CBR-02_20241003-FBLL (500-257876-10)	10/3/24	09:45 Eastern	G	Water				X					2	
EB-01-GW_20241002 (500-257876-11)	10/2/24	17:00 Eastern	G	Water			X	X	X				4	
EB-01-GW_20241002-FBLL (500-257876-12)	10/2/24	17:00 Eastern	G	Water				X					2	
NB1-1_20241002 (500-257876-13)	10/2/24	13:30 Eastern	G	Water			X	X	X	X	X	X	8	
NB1-1_20241002-FBLL (500-257876-14)	10/2/24	13:30 Eastern	G	Water				X					2	
SMW-1_20241002 (500-257876-15)	10/2/24	16:30 Eastern	G	Water			X	X	X	X	X	X	8	
SMW-1_20241002-FBLL (500-257876-16)	10/2/24	16:30 Eastern	G	Water				X					2	
MW-5A_20241002 (500-257876-17)	10/2/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	
MW-5A_20241002 (500-257876-17MS)	10/2/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 10/4/24 1600	Company	Received by:	Date/Time: 10/5/24 0930	Company: EET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/29/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193433.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 3 of 3
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257876-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/24/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-5A_20241002 (500-257876-17MSD)	10/2/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	
MW-5A_20241002-FBLL (500-257876-18)	10/2/24	15:00 Eastern	G	Water				X					2	
MW-5A_20241002-FBLL (500-257876-18MS)	10/2/24	15:00 Eastern	G	Water				X					2	
MW-5A_20241002-FBLL (500-257876-18MSD)	10/2/24	15:00 Eastern	G	Water				X					2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 10/2/24 1600	Company	Received by:	Date/Time: 10/3/24 0930	Company EET	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

herm. ID: 14 Cor: 1.2 ° Unc: 0.5 °
ooler Dsc: LB
acking: NO
ust. Seal: Yes X No
lue Ice, Wet, Dry, None
FedEx: P.O.
UPS:
Lab Cour:
Other:
#1

herm. ID: 14 Cor: 4.0 ° Unc: 3.6 °
ooler Dsc: LB
acking: BUB
ust. Seal: Yes X No
lue Ice, Wet, Dry, None
FedEx: P.O.
UPS:
Lab Cour:
Other:
#2

herm. ID: 14 Cor: 2.3 ° Unc: 1.9 °
ooler Dsc:
acking: LB BUB
ust. Seal: Yes No
lue Ice, Wet, Dry, None
FedEx: PO
UPS:
Lab Cour:
Other:
#3

herm. ID: 14 Cor: 4.7 ° Unc: 4.3 °
ooler Dsc: LB
acking: BUB
ust. Seal: Yes X No
lue Ice, Wet, Dry, None
FedEx: P.O.
UPS:
Lab Cour:
Other:
#4

herm. ID: 14 Cor: 1.2 ° Unc: 0.8 °
ooler Dsc: LB
acking: NO
ust. Seal: Yes X No
lue Ice, Wet, Dry, None
FedEx: P.O.
UPS:
Lab Cour:
Other:
#1

herm. ID: 14 Cor: 4.0 ° Unc: 3.6 °
ooler Dsc: LB
acking: BUB
ust. Seal: Yes X No
lue Ice, Wet, Dry, None
FedEx: P.O.
UPS:
Lab Cour:
Other:
#2

herm. ID: 14 Cor: 2.3 ° Unc: 1.9 °
ooler Dsc:
acking: LB BUB
ust. Seal: Yes X No
lue Ice, Wet, Dry, None
FedEx: PS
UPS:
Lab Cour:
Other:
#3

herm. ID: 14 Cor: 4.7 ° Unc: 4.3 °
ooler Dsc: LB
acking: BUB
ust. Seal: Yes X No
lue Ice, Wet, Dry, None
FedEx: P.O.
UPS:
Lab Cour:
Other:
#4

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/29/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193433.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 3
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257876-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/24/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-37_20241002 (500-257876-1)	10/2/24	10:30 Eastern	G	Water			X	X	X				5	
MW-37_20241002-FBLL (500-257876-2)	10/2/24	10:30 Eastern	G	Water				X					2	
SMW-3_20241002 (500-257876-3)	10/2/24	11:50 Eastern	G	Water			X	X	X	X	X	X	8	
SMW-3_20241002-FBLL (500-257876-4)	10/2/24	11:50 Eastern	G	Water				X					2	
DUP-01-GW_20241002 (500-257876-5)	10/2/24	23:59 Eastern	G	Water			X	X	X	X	X	X	8	
DUP-01-GW_20241002-FBLL (500-257876-6)	10/2/24	23:59 Eastern	G	Water				X					2	
NB1-3_20241002 (500-257876-7)	10/2/24	12:15 Eastern	G	Water			X	X	X	X	X	X	8	
NB1-3_20241002-FBLL (500-257876-8)	10/2/24	12:15 Eastern	G	Water				X					2	
CBR-02_20241003 (500-257876-9)	10/3/24	09:45 Eastern	G	Water			X	X	X	X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Shirin Scott	Date/Time: 10/4/24 1600	Company	Received by:	Date/Time: 10/9/24 0930	Company EETN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: Temp on last page

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/29/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193433.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 3
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257876-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/24/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			Other:
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
CBR-02_20241003-FBLL (500-257876-10)	10/3/24	09:45 Eastern	G	Water				X					2	
EB-01-GW_20241002 (500-257876-11)	10/2/24	17:00 Eastern	G	Water			X	X	X				4	
EB-01-GW_20241002-FBLL (500-257876-12)	10/2/24	17:00 Eastern	G	Water				X					2	
NB1-1_20241002 (500-257876-13)	10/2/24	13:30 Eastern	G	Water			X	X	X	X	X	X	8	
NB1-1_20241002-FBLL (500-257876-14)	10/2/24	13:30 Eastern	G	Water				X					2	
SMW-1_20241002 (500-257876-15)	10/2/24	16:30 Eastern	G	Water			X	X	X	X	X	X	8	
SMW-1_20241002-FBLL (500-257876-16)	10/2/24	16:30 Eastern	G	Water				X					2	
MW-5A_20241002 (500-257876-17)	10/2/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	
MW-5A_20241002 (500-257876-17MS)	10/2/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Chris Scott	Date/Time: 10/4/24 1600	Company	Received by:	Date/Time: 10/5/24 0930	Company: EET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/29/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193433.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 3 of 3
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257876-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/24/2024	Analysis Requested		Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-5A_20241002 (500-257876-17MSD)	10/2/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	
MW-5A_20241002-FBLL (500-257876-18)	10/2/24	15:00 Eastern	G	Water				X					2	
MW-5A_20241002-FBLL (500-257876-18MS)	10/2/24	15:00 Eastern	G	Water				X					2	
MW-5A_20241002-FBLL (500-257876-18MSD)	10/2/24	15:00 Eastern	G	Water				X					2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10/2/24 1600	Company	Received by:	Date/Time: 10/3/24 0930	Company EET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Therm. ID: 14 Cor: 1.2 ° Unc: 0.6 °
Cooler Dsc: LB
Packing: ND
Cust. Seal: Yes X No ____
Blue Ice, Wet, Dry, None
FedEx: P.O.
UPS: ____
Lab Cour: ____
Other: ____
#1

Therm. ID: 14 Cor: 4.0 ° Unc: 3.6 °
Cooler Dsc: LB
Packing: BUB
Cust. Seal: Yes X No ____
Blue Ice, Wet, Dry, None
FedEx: P.O.
UPS: ____
Lab Cour: ____
Other: ____
#2

Therm. ID: 14 Cor: 2.3 ° Unc: 1.9 °
Cooler Dsc: LB BUB
Packing: ____
Cust. Seal: Yes X No ____
Blue Ice, Wet, Dry, None
FedEx: PO.
UPS: ____
Lab Cour: ____
Other: ____
#3

Therm. ID: 14 Cor: 4.7 ° Unc: 4.3 °
Cooler Dsc: LB
Packing: BUB
Cust. Seal: Yes X No ____
Blue Ice, Wet, Dry, None
FedEx: P.O.
UPS: ____
Lab Cour: ____
Other: ____
#4

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/29/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193433.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 3
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257876-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/24/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			Other:
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-37_20241002 (500-257876-1)	10/2/24	10:30 Eastern	G	Water			X	X	X				5	
MW-37_20241002-FBLL (500-257876-2)	10/2/24	10:30 Eastern	G	Water				X					2	
SMW-3_20241002 (500-257876-3)	10/2/24	11:50 Eastern	G	Water			X	X	X	X	X	X	8	
SMW-3_20241002-FBLL (500-257876-4)	10/2/24	11:50 Eastern	G	Water				X					2	
DUP-01-GW_20241002 (500-257876-5)	10/2/24	23:59 Eastern	G	Water			X	X	X	X	X	X	8	
DUP-01-GW_20241002-FBLL (500-257876-6)	10/2/24	23:59 Eastern	G	Water				X					2	
NB1-3_20241002 (500-257876-7)	10/2/24	12:15 Eastern	G	Water			X	X	X	X	X	X	8	
NB1-3_20241002-FBLL (500-257876-8)	10/2/24	12:15 Eastern	G	Water				X					2	
CBR-02_20241003 (500-257876-9)	10/3/24	09:45 Eastern	G	Water			X	X	X	X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: Chris Scott	Date/Time: 10/4/24 1600	Company	Received by:	Date/Time: 10/9/24 0930	Company: EST
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: Temp on last page

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/29/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193433.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 3
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257876-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/24/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			Other:
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
CBR-02_20241003-FBLL (500-257876-10)	10/3/24	09:45 Eastern	G	Water				X					2	
EB-01-GW_20241002 (500-257876-11)	10/2/24	17:00 Eastern	G	Water			X	X	X				4	
EB-01-GW_20241002-FBLL (500-257876-12)	10/2/24	17:00 Eastern	G	Water				X					2	
NB1-1_20241002 (500-257876-13)	10/2/24	13:30 Eastern	G	Water			X	X	X	X	X	X	8	
NB1-1_20241002-FBLL (500-257876-14)	10/2/24	13:30 Eastern	G	Water				X					2	
SMW-1_20241002 (500-257876-15)	10/2/24	16:30 Eastern	G	Water			X	X	X	X	X	X	8	
SMW-1_20241002-FBLL (500-257876-16)	10/2/24	16:30 Eastern	G	Water				X					2	
MW-5A_20241002 (500-257876-17)	10/2/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	
MW-5A_20241002 (500-257876-17MS)	10/2/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Chris Scott	Date/Time: 10/4/24 1600	Company	Received by:	Date/Time: 10/5/24 0930	Company: EET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

10/29/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193433.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 3 of 3
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-257876-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/24/2024	Analysis Requested		Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-5A_20241002 (500-257876-17MSD)	10/2/24	15:00 Eastern	G	Water			X	X	X	X	X	X	8	
MW-5A_20241002-FBLL (500-257876-18)	10/2/24	15:00 Eastern	G	Water				X					2	
MW-5A_20241002-FBLL (500-257876-18MS)	10/2/24	15:00 Eastern	G	Water				X					2	
MW-5A_20241002-FBLL (500-257876-18MSD)	10/2/24	15:00 Eastern	G	Water				X					2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10/2/24 1600	Company	Received by:	Date/Time: 10/3/24 0930	Company EET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Therm. ID: 14 Cor: 1.2 ° Unc: 0.5 °
Cooler Dsc: LB
Packing: NO
Cust. Seal: Yes X No ____
Blue Ice, Wet, Dry, None
FedEx: P.O.
UPS: ____
Lab Cour: ____
Other: ____
#1

Therm. ID: 14 Cor: 4.0 ° Unc: 3.6 °
Cooler Dsc: LB
Packing: BUB
Cust. Seal: Yes X No ____
Blue Ice, Wet, Dry, None
FedEx: P.O.
UPS: ____
Lab Cour: ____
Other: ____
#2

Therm. ID: 14 Cor: 2.3 ° Unc: 1.9 °
Cooler Dsc: ____
Packing: LB BUB
Cust. Seal: Yes X No ____
Blue Ice, Wet, Dry, None
FedEx: PO.
UPS: ____
Lab Cour: ____
Other: ____
#3

Therm. ID: 14 Cor: 4.7 ° Unc: 4.3 °
Cooler Dsc: LB
Packing: BUB
Cust. Seal: Yes X No ____
Blue Ice, Wet, Dry, None
FedEx: P.O.
UPS: ____
Lab Cour: ____
Other: ____
#4

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-257876-1

Login Number: 257876
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.1,1.5,2.1,3.5,3.6,2.2,1.2,1.7,1.8,1.6,3.7,
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-257876-1

Login Number: 257876
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 10/07/24 02:17 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-257876 Field Sheet

Date:	10/7/2024
End Time:	14:35
KI Paper Lot:	na
Analyst:	VL

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	27923
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-257876-A-1	A	Y	.8	2	
500-257876-B-1	A	Y	.8	2	
500-257876-C-1	A	Y	.8	2	
500-257876-D-1	A	Y	.8	2	
500-257876-A-2	A	Y	.8	2	
500-257876-B-2	A	Y	.8	2	
500-257876-A-3	A	Y	.8	2	
500-257876-B-3	A	Y	.8	2	
500-257876-C-3	A	Y	.8	2	
500-257876-D-3	A	Y	.8	2	
500-257876-A-4	A	Y	.8	2	
500-257876-B-4	A	Y	.8	2	
500-257876-A-5	A	Y	.8	2	
500-257876-B-5	A	Y	.8	2	
500-257876-C-5	A	Y	.8	2	VL 10/7/24
500-257876-D-5	A	Y	.8	2	
500-257876-A-6	A	Y	.8	2	
500-257876-B-6	A	Y	.8	2	
500-257876-A-7	A	Y	.8	2	
500-257876-B-7	A	Y	.8	2	
500-257876-C-7	A	Y	.8	2	
500-257876-D-7	A	Y	.8	2	
500-257876-A-8	A	Y	.8	2	
500-257876-B-8	A	Y	.8	2	
500-257876-A-9	A	Y	.8	2	
500-257876-B-9	A	Y	.8	2	
500-257876-C-9	A	Y	.8	2	
500-257876-D-9	A	Y	.8	2	
500-257876-A-10	A	Y	.8	2	
500-257876-B-10	A	Y	.8	2	
500-257876-A-11	A	Y	.8	2	
500-257876-B-11	A	Y	.8	2	
500-257876-A-12	A	Y	.8	2	
500-257876-B-12	A	Y	.8	2	
500-257876-A-13	A	Y	.8	2	

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Date:	10/7/2024
End Time:	1435
KI Paper Lot:	na
Analyst:	VR

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	27923
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
500-257876-B-12	A	Y	.8 2	
500-257876-A-13	A	Y	.8 2	
500-257876-B-13	A	Y	.8 2	
500-257876-C-13	A	Y	.8 2	
500-257876-D-13	A	Y	.8 2	
500-257876-A-14	A	Y	.8 2	
500-257876-B-14	A	Y	.8 2	
500-257876-A-15	A	Y	.8 2	
500-257876-B-15	A	Y	.8 2	
500-257876-C-15	A	Y	.8 2	
500-257876-D-15	A	Y	.8 2	
500-257876-A-16	A	Y	.8 2	
500-257876-B-16	A	Y	.8 2	
500-257876-A-17	A	Y	.8 2	
500-257876-B-17	A	Y	.8 2	
500-257876-C-17	A	Y	.8 2	
500-257876-D-17	A	Y	.8 2	
500-257876-A-17 MS	A	Y	.8 2	
500-257876-B-17 MS	A	Y	.8 2	
500-257876-C-17 MS	A	Y	.8 2	
500-257876-D-17 MS	A	Y	.8 2	
500-257876-A-17 MSD	A	Y	.8 2	
500-257876-B-17 MSD	A	Y	.8 2	
500-257876-C-17 MSD	A	Y	.8 2	
500-257876-D-17 MSD	A	Y	.8 2	
500-257876-A-18	A	Y	.8 2	
500-257876-B-18	A	Y	.8 2	
500-257876-A-18 MS	A	Y	.8 2	
500-257876-B-18 MS	A	Y	.8 2	
500-257876-A-18 MSD	A	Y	.8 2	
500-257876-B-18 MSD	A	Y	.8 2	

Y
10/7/24

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500-257876 Field Sheet

Date:	10/7/2024
End Time:	14:35
KI Paper Lot:	na
Analyst:	VL

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	27923
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-257876-A-1	A	Y	.8	2	
500-257876-B-1	A	Y	.8	2	
500-257876-C-1	A	Y	.8	2	
500-257876-D-1	A	Y	.8	2	
500-257876-A-2	A	Y	.8	2	
500-257876-B-2	A	Y	.8	2	
500-257876-A-3	A	Y	.8	2	
500-257876-B-3	A	Y	.8	2	
500-257876-C-3	A	Y	.8	2	
500-257876-D-3	A	Y	.8	2	
500-257876-A-4	A	Y	.8	2	
500-257876-B-4	A	Y	.8	2	
500-257876-A-5	A	Y	.8	2	
500-257876-B-5	A	Y	.8	2	
500-257876-C-5	A	Y	.8	2	VL 10/7/24
500-257876-D-5	A	Y	.8	2	
500-257876-A-6	A	Y	.8	2	
500-257876-B-6	A	Y	.8	2	
500-257876-A-7	A	Y	.8	2	
500-257876-B-7	A	Y	.8	2	
500-257876-C-7	A	Y	.8	2	
500-257876-D-7	A	Y	.8	2	
500-257876-A-8	A	Y	.8	2	
500-257876-B-8	A	Y	.8	2	
500-257876-A-9	A	Y	.8	2	
500-257876-B-9	A	Y	.8	2	
500-257876-C-9	A	Y	.8	2	
500-257876-D-9	A	Y	.8	2	
500-257876-A-10	A	Y	.8	2	
500-257876-B-10	A	Y	.8	2	
500-257876-A-11	A	Y	.8	2	
500-257876-B-11	A	Y	.8	2	
500-257876-A-12	A	Y	.8	2	
500-257876-B-12	A	Y	.8	2	
500-257876-A-13	A	Y	.8	2	

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Date:	10/7/2024
End Time:	1435
KI Paper Lot:	na
Analyst:	VR

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	27923
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
500-257876-B-12	A	Y	.8 2	
500-257876-A-13	A	Y	.8 2	
500-257876-B-13	A	Y	.8 2	
500-257876-C-13	A	Y	.8 2	
500-257876-D-13	A	Y	.8 2	
500-257876-A-14	A	Y	.8 2	
500-257876-B-14	A	Y	.8 2	
500-257876-A-15	A	Y	.8 2	
500-257876-B-15	A	Y	.8 2	
500-257876-C-15	A	Y	.8 2	
500-257876-D-15	A	Y	.8 2	
500-257876-A-16	A	Y	.8 2	
500-257876-B-16	A	Y	.8 2	
500-257876-A-17	A	Y	.8 2	
500-257876-B-17	A	Y	.8 2	
500-257876-C-17	A	Y	.8 2	
500-257876-D-17	A	Y	.8 2	
500-257876-A-17 MS	A	Y	.8 2	
500-257876-B-17 MS	A	Y	.8 2	
500-257876-C-17 MS	A	Y	.8 2	
500-257876-D-17 MS	A	Y	.8 2	
500-257876-A-17 MSD	A	Y	.8 2	
500-257876-B-17 MSD	A	Y	.8 2	
500-257876-C-17 MSD	A	Y	.8 2	
500-257876-D-17 MSD	A	Y	.8 2	
500-257876-A-18	A	Y	.8 2	
500-257876-B-18	A	Y	.8 2	
500-257876-A-18 MS	A	Y	.8 2	
500-257876-B-18 MS	A	Y	.8 2	
500-257876-A-18 MSD	A	Y	.8 2	
500-257876-B-18 MSD	A	Y	.8 2	

Y
10/7/24

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500-257876 Field Sheet

Date:	10/7/2024
End Time:	1530
pH Paper Lot:	hc441704
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-257876-M-1	<2				
500-257876-N-3	<2				
500-257876-M-3	<2				
500-257876-M-5	<2				
500-257876-N-5	<2				
500-257876-N-7	<2				
500-257876-M-7	<2				
500-257876-M-9	<2				
500-257876-N-9	<2				
500-257876-M-11	<2				
500-257876-N-13	<2				
500-257876-M-13	<2				
500-257876-N-15	<2				
500-257876-M-15	<2				
500-257876-M-17 MS	<2				
500-257876-M-17 MSD	<2				
500-257876-N-17	<2				
500-257876-N-17 MSD	<2				
500-257876-N-17 MSD	<2				
500-257876-M-17	<2				

10/7/24

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500-257876 Field Sheet

Date:	10/7/2024
End Time:	1530
pH Paper Lot:	hc441704
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-257876-M-1	≤2				
500-257876-N-3	≤2				
500-257876-M-3	≤2				
500-257876-M-5	≤2				
500-257876-N-5	≤2				
500-257876-N-7	≤2				
500-257876-M-7	≤2				
500-257876-M-9	≤2				
500-257876-N-9	≤2				
500-257876-M-11	≤2				
500-257876-N-13	≤2				
500-257876-M-13	≤2				
500-257876-N-15	≤2				
500-257876-M-15	≤2				
500-257876-M-17 MS	≤2				
500-257876-M-17 MSD	≤2				
500-257876-N-17	≤2				
500-257876-N-17 MSD	≤2				
500-257876-N-17 MSD	≤2				
500-257876-M-17	≤2				

10/7/24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 11/6/2024 3:45:24 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-258104-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



Generated
11/6/2024 3:45:24 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-258104-1

Receipt
The samples were received on 10/09/24 10:05. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 10 coolers at receipt time were 1.0º C, 1.6º C, 1.7º C, 2.2º C, 2.4º C, 2.5º C, 2.7º C, 3.1º C, 3.9º C and 4.7º C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Sample #7-EB COC checked off for DOC however did not receive vials. Only logged totals.

The following samples were received outside of holding time: sample #1(sampled 10/7 1020 EST) and 9 (sampled 10/7 1105 EST), received 10/9 1005 CST.

Metals
Method 6020B: The initial low level calibration verification (ICVL) result for batch 500-793045 was above the upper control limit. The affected analyte is: Silver. Sample results were below the reporting limit, and have been reported as qualified data.

Method 6020B: The continuing calibration verification (CCV) at line 43 associated with batch 500-793150 recovered above the upper control limit for Lithium. The samples associated with this CCV were below the reporting limit for the affected analyte; therefore, the data have been reported. The associated sample is impacted: (CCV 500-793150/43).

Method 1630: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 350-3090 and analytical batch 350-3111 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 1631E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 350-3142 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The method blank for analytical batch 500-789763 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The following sample was received outside of holding time for Nitrite & Nitrate: MW-38_20241007 (500-258104-1).

Method 300.0: The following sample was analyzed outside of analytical holding time : MW-31_20241007 (500-258104-9).

Method 300.0: The method blank for analytical batch 500-789940 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The following sample was received outside of holding time for Nitrite & Nitrate: TBS-01_20241008 (500-258104-15).

Method SM 2320B: The method blank for analytical batch 500-791737 contained Alkalinity above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 300.0: The method blank for analytical batch 500-792271 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-38_20241007

Lab Sample ID: 500-258104-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.73		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.45	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	8.8		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	7.8		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	39	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.68	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	90		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	350	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	40000		200	44	ug/L	1		6020B	Total Recoverable
Copper	3.2		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	85	J	100	47	ug/L	1		6020B	Total Recoverable
Lead	2.8		0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	30		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	3600		200	49	ug/L	1		6020B	Total Recoverable
Manganese	150		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	11		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	970		500	110	ug/L	1		6020B	Total Recoverable
Sodium	86000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	610		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	8.9		5.0	2.2	ug/L	1		6020B	Total Recoverable
Zinc	6.9	J	20	6.9	ug/L	1		6020B	Total Recoverable
Arsenic	0.60	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	80		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	350	B	50	13	ug/L	1		6020B	Dissolved
Calcium	39000		200	44	ug/L	1		6020B	Dissolved
Copper	1.5	J	2.0	0.50	ug/L	1		6020B	Dissolved
Lead	1.2		0.50	0.19	ug/L	1		6020B	Dissolved
Lithium	32		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	3600		200	49	ug/L	1		6020B	Dissolved
Molybdenum	12		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	960		500	110	ug/L	1		6020B	Dissolved
Sodium	86000		200	77	ug/L	1		6020B	Dissolved
Strontium	590		4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	8.0		5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	110		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.33	J	1.0	0.18	mg/L	1		300.0	Total/NA
Nitrate as N	0.45	J H3	1.0	0.043	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-38_20241007 (Continued) — Lab Sample ID: 500-258104-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20	B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.67	J	1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.45	J H3	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	23		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.15		0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	220		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	220		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	300		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	2.6	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	2.6		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	2.5		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-38_20241007_FBLL — Lab Sample ID: 500-258104-2

No Detections.

Client Sample ID: TBN-01_20241007 — Lab Sample ID: 500-258104-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.46	J	0.50	0.20	ng/L	1		1631E	Total/NA
Uranium	0.59		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.56		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	840		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.85	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	110		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	440	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	69000		200	44	ug/L	1		6020B	Total Recoverable
Chromium	2.3	J	5.0	1.1	ug/L	1		6020B	Total Recoverable
Cobalt	0.59	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	61		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	1300		100	47	ug/L	1		6020B	Total Recoverable
Lead	0.23	J	0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	43		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	11000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	31		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	54		5.0	2.5	ug/L	1		6020B	Total Recoverable
Nickel	1.4	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	5200		500	110	ug/L	1		6020B	Total Recoverable
Sodium	100000		200	77	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: TBN-01_20241007 (Continued) — Lab Sample ID: 500-258104-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Strontium	920		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	2.4	J	5.0	2.2	ug/L	1		6020B	Total Recoverable
Aluminum	41	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.79	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	110		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	450	B	50	13	ug/L	1		6020B	Dissolved
Calcium	72000		200	44	ug/L	1		6020B	Dissolved
Copper	18		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	48	J	100	47	ug/L	1		6020B	Dissolved
Lithium	43		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	11000		200	49	ug/L	1		6020B	Dissolved
Manganese	1.3	J	2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	56		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	5200		500	110	ug/L	1		6020B	Dissolved
Sodium	100000		200	77	ug/L	1		6020B	Dissolved
Strontium	960		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	220		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	1.9		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	210	B	10	1.2	mg/L	10		300.0	Total/NA
Fluoride	0.55	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	31		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	71		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	71		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	570		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	13		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	3.9		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	4.0		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: TBN-01_20241007_FBLL — Lab Sample ID: 500-258104-4

No Detections.

Client Sample ID: LKS-01_20241007 — Lab Sample ID: 500-258104-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.32	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.20	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.074		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.058		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	560		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.49	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	16		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	15	J	50	13	ug/L	1		6020B	Total Recoverable
Calcium	14000		200	44	ug/L	1		6020B	Total Recoverable
Copper	2.1		2.0	0.50	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: LKS-01_20241007 (Continued) — Lab Sample ID: 500-258104-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	560		100	47	ug/L	1		6020B	Total Recoverable
Lead	0.20	J	0.50	0.19	ug/L	1		6020B	Total Recoverable
Magnesium	3200		200	49	ug/L	1		6020B	Total Recoverable
Manganese	16		2.5	0.79	ug/L	1		6020B	Total Recoverable
Nickel	0.83	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	700		500	110	ug/L	1		6020B	Total Recoverable
Sodium	2000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	24		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.32	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	12		2.5	0.73	ug/L	1		6020B	Dissolved
Calcium	14000		200	44	ug/L	1		6020B	Dissolved
Copper	1.0	J	2.0	0.50	ug/L	1		6020B	Dissolved
Magnesium	3000		200	49	ug/L	1		6020B	Dissolved
Potassium	550		500	110	ug/L	1		6020B	Dissolved
Sodium	2000		200	77	ug/L	1		6020B	Dissolved
Strontium	24		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	48		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Nitrate as N	0.66	J	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	2.0	B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.45	J	1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.66	J	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	3.5		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	47		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	47		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	56		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	18		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.7		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	1.8		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: LKS-01_20241007_FBLL — Lab Sample ID: 500-258104-6

No Detections.

Client Sample ID: FB-01-GW_20241007 — Lab Sample ID: 500-258104-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Uranium	0.036	J	0.050	0.0098	ug/L	1		1638	Total Recoverable
Chloride	0.24	J B	1.0	0.12	mg/L	1		300.0	Total/NA
Total Dissolved Solids	8.0	J	10	4.3	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-01-GW_20241007_FBLL — Lab Sample ID: 500-258104-8

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-31_20241007

Lab Sample ID: 500-258104-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	2.4		0.50	0.20	ng/L	1		1631E	Total/NA
Uranium	1.6		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	1.0		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	19000		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	7.0		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	320		2.5	0.73	ug/L	1		6020B	Total Recoverable
Beryllium	0.93	J	1.0	0.53	ug/L	1		6020B	Total Recoverable
Boron	790		50	13	ug/L	1		6020B	Total Recoverable
Calcium	35000		200	44	ug/L	1		6020B	Total Recoverable
Chromium	32		5.0	1.1	ug/L	1		6020B	Total Recoverable
Cobalt	14		1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	41		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	20000		100	47	ug/L	1		6020B	Total Recoverable
Lead	9.4		0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	49		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	13000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	500		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	6.6		5.0	2.5	ug/L	1		6020B	Total Recoverable
Nickel	32		2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	7800		500	110	ug/L	1		6020B	Total Recoverable
Selenium	1.5	J	2.5	0.98	ug/L	1		6020B	Total Recoverable
Sodium	51000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	420		4.0	0.64	ug/L	1		6020B	Total Recoverable
Tin	1.3	J	5.0	1.3	ug/L	1		6020B	Total Recoverable
Vanadium	44		5.0	2.2	ug/L	1		6020B	Total Recoverable
Zinc	57		20	6.9	ug/L	1		6020B	Total Recoverable
Arsenic	2.6		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	120		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	800		50	13	ug/L	1		6020B	Dissolved
Calcium	21000		200	44	ug/L	1		6020B	Dissolved
Lithium	23		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	3900		200	49	ug/L	1		6020B	Dissolved
Manganese	44		2.5	0.79	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-31_20241007 (Continued) — Lab Sample ID: 500-258104-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	5.8		5.0	2.5	ug/L	1		6020B	Dissolved
Nickel	1.5	J	2.0	0.63	ug/L	1		6020B	Dissolved
Potassium	2800		500	110	ug/L	1		6020B	Dissolved
Sodium	50000		200	77	ug/L	1		6020B	Dissolved
Strontium	360		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	140		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.29	J	1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	17	B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.69	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	21		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.028	J	0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	140		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	140		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	280		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	140		25	9.7	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.3		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	1.4		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-31_20241007_FBLL — Lab Sample ID: 500-258104-10

No Detections.

Client Sample ID: LKS-02_20241007 — Lab Sample ID: 500-258104-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.022	J	0.050	0.022	ng/L	1		1630	Total/NA
Mercury	0.43	J	0.50	0.20	ng/L	1		1631E	Total/NA
Uranium	0.060		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.056		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	120		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.39	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	12		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	14	J	50	13	ug/L	1		6020B	Total Recoverable
Calcium	14000		200	44	ug/L	1		6020B	Total Recoverable
Copper	1.3	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	120		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	2900		200	49	ug/L	1		6020B	Total Recoverable
Manganese	5.1		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	560		500	110	ug/L	1		6020B	Total Recoverable
Sodium	1700		200	77	ug/L	1		6020B	Total Recoverable
Strontium	22		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.35	J	1.0	0.23	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: LKS-02_20241007 (Continued) — Lab Sample ID: 500-258104-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	11		2.5	0.73	ug/L	1		6020B	Dissolved
Calcium	14000		200	44	ug/L	1		6020B	Dissolved
Copper	0.73	J	2.0	0.50	ug/L	1		6020B	Dissolved
Magnesium	2900		200	49	ug/L	1		6020B	Dissolved
Manganese	0.81	J	2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	530		500	110	ug/L	1		6020B	Dissolved
Sodium	1700		200	77	ug/L	1		6020B	Dissolved
Strontium	22		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	47		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Nitrate as N	0.67	J	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	1.6	B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.45	J	1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.67	J	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	3.5		1.0	0.21	mg/L	1		300.0	Total/NA
Ammonia	1.5		0.20	0.10	mg/L	1		350.1	Total/NA
Alkalinity	52		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	52		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	58		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	6.0		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.7		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	1.7		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: LKS-02_20241007_FBLL — Lab Sample ID: 500-258104-12

No Detections.

Client Sample ID: MW-42_20241007 — Lab Sample ID: 500-258104-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	3.5		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	1.5		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	7.7		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	7.5		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	1500		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	3.6		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	18		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	620		50	13	ug/L	1		6020B	Total Recoverable
Calcium	2500		200	44	ug/L	1		6020B	Total Recoverable
Chromium	2.1	J	5.0	1.1	ug/L	1		6020B	Total Recoverable
Cobalt	0.61	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	4.9		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	1000		100	47	ug/L	1		6020B	Total Recoverable
Lead	0.35	J	0.50	0.19	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-42_20241007 (Continued) — Lab Sample ID: 500-258104-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	15		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	460		200	49	ug/L	1		6020B	Total Recoverable
Manganese	22		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	10		5.0	2.5	ug/L	1		6020B	Total Recoverable
Nickel	1.3	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	600		500	110	ug/L	1		6020B	Total Recoverable
Sodium	65000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	33		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	20		5.0	2.2	ug/L	1		6020B	Total Recoverable
Aluminum	260		100	25	ug/L	1		6020B	Dissolved
Arsenic	3.7		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	6.6		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	640		50	13	ug/L	1		6020B	Dissolved
Calcium	2400		200	44	ug/L	1		6020B	Dissolved
Copper	3.3		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	200		100	47	ug/L	1		6020B	Dissolved
Lithium	14		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	170	J	200	49	ug/L	1		6020B	Dissolved
Manganese	5.0		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	11		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	270	J	500	110	ug/L	1		6020B	Dissolved
Sodium	65000		200	77	ug/L	1		6020B	Dissolved
Strontium	31		4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	18		5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	8.1		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Nitrate as N	0.46	J	1.0	0.043	mg/L	1		300.0	Total/NA
Chloride	1.1	B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	1.2		1.0	0.19	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.46	J	1.0	0.070	mg/L	1		300.0	Total/NA
Sulfate	13		1.0	0.21	mg/L	1		300.0	Total/NA
Phosphorus as P	0.25		0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	130		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	120		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Carbonate Alkalinity as CaCO3	7.4		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	190		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	5.6		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	2.5		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	2.5		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-42_20241007_FBLL — Lab Sample ID: 500-258104-14

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: TBS-01_20241008

Lab Sample ID: 500-258104-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.27	J	0.50	0.20	ng/L	1		1631E	Total/NA
Uranium	0.21		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.20		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	170		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.65	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	90		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	420		50	13	ug/L	1		6020B	Total Recoverable
Calcium	74000		200	44	ug/L	1		6020B	Total Recoverable
Copper	20		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	260		100	47	ug/L	1		6020B	Total Recoverable
Lithium	42		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	7700		200	49	ug/L	1		6020B	Total Recoverable
Manganese	6.7		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	4.6	J	5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	4000		500	110	ug/L	1		6020B	Total Recoverable
Sodium	81000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	1100		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.65	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	89		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	420		50	13	ug/L	1		6020B	Dissolved
Calcium	73000		200	44	ug/L	1		6020B	Dissolved
Copper	12		2.0	0.50	ug/L	1		6020B	Dissolved
Lithium	42		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	7600		200	49	ug/L	1		6020B	Dissolved
Molybdenum	4.6	J	5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	3900		500	110	ug/L	1		6020B	Dissolved
Sodium	80000		200	77	ug/L	1		6020B	Dissolved
Strontium	1100		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	220		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	1.8		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride	210		10	1.2	mg/L	10		300.0	Total/NA
Fluoride	0.55	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	32		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	54	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	54	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	470		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	3.0	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	5.9		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	5.9		1.0	0.47	mg/L	1		SM 5310C	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: TBS-01_20241008-FBLL — Lab Sample ID: 500-258104-16

No Detections.

Client Sample ID: BNW-01_20241008 — Lab Sample ID: 500-258104-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.51		0.50	0.20	ng/L	1		1631E	Total/NA
Uranium	0.085		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.084		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	54	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.41	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	29		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	14	J	50	13	ug/L	1		6020B	Total Recoverable
Calcium	28000		200	44	ug/L	1		6020B	Total Recoverable
Copper	1.5	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	190		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	6700		200	49	ug/L	1		6020B	Total Recoverable
Manganese	16		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	230	J	500	110	ug/L	1		6020B	Total Recoverable
Sodium	1600		200	77	ug/L	1		6020B	Total Recoverable
Strontium	84		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.40	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	26		2.5	0.73	ug/L	1		6020B	Dissolved
Calcium	28000		200	44	ug/L	1		6020B	Dissolved
Copper	0.94	J	2.0	0.50	ug/L	1		6020B	Dissolved
Magnesium	6700		200	49	ug/L	1		6020B	Dissolved
Manganese	4.0		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	210	J	500	110	ug/L	1		6020B	Dissolved
Sodium	1600		200	77	ug/L	1		6020B	Dissolved
Strontium	84		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	97		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	1.4	B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.47	J	1.0	0.19	mg/L	1		300.0	Total/NA
Alkalinity	100		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	100		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	86		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	3.8	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	6.7		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	6.8		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: BNW-01_20241008-FBLL — Lab Sample ID: 500-258104-18

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: BNC-01_20241008 — Lab Sample ID: 500-258104-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.28	J	0.50	0.20	ng/L	1		1631E	Total/NA
Arsenic	0.23	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	58		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	20	J	50	13	ug/L	1		6020B	Total Recoverable
Calcium	18000		200	44	ug/L	1		6020B	Total Recoverable
Copper	0.99	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Lithium	3.2	J ^+	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	3100		200	49	ug/L	1		6020B	Total Recoverable
Manganese	5.3		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	370	J	500	110	ug/L	1		6020B	Total Recoverable
Sodium	4300		200	77	ug/L	1		6020B	Total Recoverable
Strontium	83		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.24	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	61		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	18	J	50	13	ug/L	1		6020B	Dissolved
Calcium	18000		200	44	ug/L	1		6020B	Dissolved
Copper	1.3	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	270		100	47	ug/L	1		6020B	Dissolved
Lithium	3.1	J ^+	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	3100		200	49	ug/L	1		6020B	Dissolved
Manganese	36		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	360	J	500	110	ug/L	1		6020B	Dissolved
Sodium	4300		200	77	ug/L	1		6020B	Dissolved
Strontium	85		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	57		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	10	B	1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.48	J	1.0	0.19	mg/L	1		300.0	Total/NA
Cyanide, Total	0.0040	J	0.0050	0.0036	mg/L	1		335.4	Total/NA
Alkalinity	51		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	51		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	44		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	6.0		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	7.9		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	8.3		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: BNC-01_20241008-FBLL — Lab Sample ID: 500-258104-20

No Detections.

Client Sample ID: FB-02_20241008-FBLL — Lab Sample ID: 500-258104-21

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-258104-1	MW-38_20241007	Water	10/07/24 10:20	10/09/24 10:05
500-258104-2	MW-38_20241007_FBLL	Water	10/07/24 10:20	10/09/24 10:05
500-258104-3	TBN-01_20241007	Water	10/07/24 15:30	10/09/24 10:05
500-258104-4	TBN-01_20241007_FBLL	Water	10/07/24 15:30	10/09/24 10:05
500-258104-5	LKS-01_20241007	Water	10/07/24 15:00	10/09/24 10:05
500-258104-6	LKS-01_20241007_FBLL	Water	10/07/24 15:00	10/09/24 10:05
500-258104-7	FB-01-GW_20241007	Water	10/07/24 12:45	10/09/24 10:05
500-258104-8	FB-01-GW_20241007_FBLL	Water	10/07/24 12:45	10/09/24 10:05
500-258104-9	MW-31_20241007	Water	10/07/24 11:05	10/09/24 10:05
500-258104-10	MW-31_20241007_FBLL	Water	10/07/24 11:05	10/09/24 10:05
500-258104-11	LKS-02_20241007	Water	10/07/24 13:30	10/09/24 10:05
500-258104-12	LKS-02_20241007_FBLL	Water	10/07/24 13:30	10/09/24 10:05
500-258104-13	MW-42_20241007	Water	10/07/24 14:00	10/09/24 10:05
500-258104-14	MW-42_20241007_FBLL	Water	10/07/24 14:00	10/09/24 10:05
500-258104-15	TBS-01_20241008	Water	10/08/24 10:00	10/10/24 09:05
500-258104-16	TBS-01_20241008-FBLL	Water	10/08/24 10:00	10/10/24 09:05
500-258104-17	BNW-01_20241008	Water	10/08/24 12:00	10/10/24 09:05
500-258104-18	BNW-01_20241008-FBLL	Water	10/08/24 12:00	10/10/24 09:05
500-258104-19	BNC-01_20241008	Water	10/08/24 15:30	10/10/24 09:05
500-258104-20	BNC-01_20241008-FBLL	Water	10/08/24 15:30	10/10/24 09:05
500-258104-21	FB-02_20241008-FBLL	Water	10/08/24 17:30	10/10/24 09:05

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-38_20241007

Date Collected: 10/07/24 10:20
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/22/24 11:10	10/22/24 20:58	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/22/24 11:10	10/22/24 21:08	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.73**		0.50	0.20	ng/L			10/25/24 15:36	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.45**	**J**	0.50	0.20	ng/L			10/25/24 15:40	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**8.8**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 16:51	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**7.8**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 15:54	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**39**	**J**	100	25	ug/L		10/25/24 15:15	10/28/24 17:09	1
Antimony	<1.3		3.0	1.3	ug/L		10/25/24 15:15	10/28/24 17:09	1
Arsenic	**0.68**	**J**	1.0	0.23	ug/L		10/25/24 15:15	10/28/24 17:09	1
Barium	**90**		2.5	0.73	ug/L		10/25/24 15:15	10/28/24 17:09	1
Beryllium	<0.53		1.0	0.53	ug/L		10/25/24 15:15	10/29/24 12:06	1
Boron	**350**	**B**	50	13	ug/L		10/25/24 15:15	10/29/24 12:06	1
Cadmium	<0.17		0.50	0.17	ug/L		10/25/24 15:15	10/28/24 17:09	1
Calcium	**40000**		200	44	ug/L		10/25/24 15:15	10/28/24 17:09	1
Chromium	<1.1		5.0	1.1	ug/L		10/25/24 15:15	10/28/24 17:09	1
Cobalt	<0.40		1.0	0.40	ug/L		10/25/24 15:15	10/28/24 17:09	1
Copper	**3.2**		2.0	0.50	ug/L		10/25/24 15:15	10/28/24 17:09	1
Iron	**85**	**J**	100	47	ug/L		10/25/24 15:15	10/28/24 17:09	1
Lead	**2.8**		0.50	0.19	ug/L		10/25/24 15:15	10/28/24 17:09	1
Lithium	**30**		10	2.5	ug/L		10/25/24 15:15	10/29/24 12:06	1
Magnesium	**3600**		200	49	ug/L		10/25/24 15:15	10/28/24 17:09	1
Manganese	**150**		2.5	0.79	ug/L		10/25/24 15:15	10/28/24 17:09	1
Molybdenum	**11**		5.0	2.5	ug/L		10/25/24 15:15	10/28/24 17:09	1
Nickel	<0.63		2.0	0.63	ug/L		10/25/24 15:15	10/28/24 17:09	1
Potassium	**970**		500	110	ug/L		10/25/24 15:15	10/28/24 17:09	1
Selenium	<0.98		2.5	0.98	ug/L		10/25/24 15:15	10/28/24 17:09	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/25/24 15:15	10/29/24 12:06	1
Sodium	**86000**		200	77	ug/L		10/25/24 15:15	10/28/24 17:09	1
Strontium	**610**		4.0	0.64	ug/L		10/25/24 15:15	10/28/24 17:09	1
Thallium	<0.57		2.0	0.57	ug/L		10/25/24 15:15	10/28/24 17:09	1
Tin	<1.3		5.0	1.3	ug/L		10/25/24 15:15	10/28/24 17:09	1
Vanadium	**8.9**		5.0	2.2	ug/L		10/25/24 15:15	10/28/24 17:09	1
Zinc	**6.9**	**J**	20	6.9	ug/L		10/25/24 15:15	10/28/24 17:09	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-38_20241007

Date Collected: 10/07/24 10:20
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/25/24 15:15	10/28/24 17:16	1
Antimony	<1.3		3.0	1.3	ug/L		10/25/24 15:15	10/28/24 17:16	1
Arsenic	**0.60**	**J**	1.0	0.23	ug/L		10/25/24 15:15	10/28/24 17:16	1
Barium	**80**		2.5	0.73	ug/L		10/25/24 15:15	10/28/24 17:16	1
Beryllium	<0.53		1.0	0.53	ug/L		10/25/24 15:15	10/29/24 12:15	1
Boron	**350**	**B**	50	13	ug/L		10/25/24 15:15	10/29/24 12:15	1
Cadmium	<0.17		0.50	0.17	ug/L		10/25/24 15:15	10/28/24 17:16	1
Calcium	**39000**		200	44	ug/L		10/25/24 15:15	10/28/24 17:16	1
Chromium	<1.1		5.0	1.1	ug/L		10/25/24 15:15	10/28/24 17:16	1
Cobalt	<0.40		1.0	0.40	ug/L		10/25/24 15:15	10/28/24 17:16	1
Copper	**1.5**	**J**	2.0	0.50	ug/L		10/25/24 15:15	10/28/24 17:16	1
Iron	<47		100	47	ug/L		10/25/24 15:15	10/28/24 17:16	1
Lead	**1.2**		0.50	0.19	ug/L		10/25/24 15:15	10/28/24 17:16	1
Lithium	**32**		10	2.5	ug/L		10/25/24 15:15	10/29/24 12:15	1
Magnesium	**3600**		200	49	ug/L		10/25/24 15:15	10/28/24 17:16	1
Manganese	<0.79		2.5	0.79	ug/L		10/25/24 15:15	10/28/24 17:16	1
Molybdenum	**12**		5.0	2.5	ug/L		10/25/24 15:15	10/28/24 17:16	1
Nickel	<0.63		2.0	0.63	ug/L		10/25/24 15:15	10/28/24 17:16	1
Potassium	**960**		500	110	ug/L		10/25/24 15:15	10/28/24 17:16	1
Selenium	<0.98		2.5	0.98	ug/L		10/25/24 15:15	10/28/24 17:16	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/25/24 15:15	10/29/24 12:15	1
Sodium	**86000**		200	77	ug/L		10/25/24 15:15	10/28/24 17:16	1
Strontium	**590**		4.0	0.64	ug/L		10/25/24 15:15	10/28/24 17:16	1
Thallium	<0.57		2.0	0.57	ug/L		10/25/24 15:15	10/28/24 17:16	1
Tin	<1.3		5.0	1.3	ug/L		10/25/24 15:15	10/28/24 17:16	1
Vanadium	**8.0**		5.0	2.2	ug/L		10/25/24 15:15	10/28/24 17:16	1
Zinc	<6.9		20	6.9	ug/L		10/25/24 15:15	10/28/24 17:16	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**110**		0.91	0.46	mg/L		10/25/24 15:15	10/29/24 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.33**	**J**	1.0	0.18	mg/L			10/09/24 13:28	1
Nitrate as N (EPA 300.0)	**0.45**	**J H3**	1.0	0.043	mg/L			10/09/24 13:28	1
Chloride (EPA 300.0)	**20**	**B**	1.0	0.12	mg/L			10/09/24 13:28	1
Nitrite as N (EPA 300.0)	<0.070	H3	1.0	0.070	mg/L			10/09/24 13:28	1
Fluoride (EPA 300.0)	**0.67**	**J**	1.0	0.19	mg/L			10/09/24 13:28	1
Nitrate Nitrite as N (EPA 300.0)	**0.45**	**J H3**	1.0	0.070	mg/L			10/09/24 13:28	1
Sulfate (EPA 300.0)	**23**		1.0	0.21	mg/L			10/09/24 13:28	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/16/24 13:53	10/16/24 15:27	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/29/24 10:57	10/31/24 14:06	1
Phosphorus as P (EPA 365.1)	**0.15**		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:19	1
Alkalinity (SM 2320B)	**220**		5.0	3.7	mg/L			10/17/24 13:23	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**220**		5.0	3.7	mg/L			10/17/24 13:23	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/17/24 13:23	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/29/24 08:11	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-38_20241007
Date Collected: 10/07/24 10:20
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	300		10	4.3	mg/L			10/13/24 22:48	1
Total Suspended Solids (SM 2540D)	2.6	J	5.0	1.9	mg/L			10/11/24 16:12	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/11/24 00:23	1
Total Organic Carbon (SM 5310C)	2.6		1.0	0.47	mg/L			10/21/24 21:15	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	2.5		1.0	0.47	mg/L			10/22/24 11:16	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-38_20241007_FBLL

Date Collected: 10/07/24 10:20
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-2

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 15:45	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: TBN-01_20241007

Date Collected: 10/07/24 15:30
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-3

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/22/24 11:10	10/22/24 21:19	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/22/24 11:10	10/22/24 21:29	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.46**	**J**	0.50	0.20	ng/L			10/25/24 15:49	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 15:53	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.59**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 16:54	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.56**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 16:23	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**840**		100	25	ug/L		10/25/24 15:15	10/28/24 17:11	1
Antimony	<1.3		3.0	1.3	ug/L		10/25/24 15:15	10/28/24 17:11	1
Arsenic	**0.85**	**J**	1.0	0.23	ug/L		10/25/24 15:15	10/28/24 17:11	1
Barium	**110**		2.5	0.73	ug/L		10/25/24 15:15	10/28/24 17:11	1
Beryllium	<0.53		1.0	0.53	ug/L		10/25/24 15:15	10/29/24 12:13	1
Boron	**440**	**B**	50	13	ug/L		10/25/24 15:15	10/29/24 12:13	1
Cadmium	<0.17		0.50	0.17	ug/L		10/25/24 15:15	10/28/24 17:11	1
Calcium	**69000**		200	44	ug/L		10/25/24 15:15	10/28/24 17:11	1
Chromium	**2.3**	**J**	5.0	1.1	ug/L		10/25/24 15:15	10/28/24 17:11	1
Cobalt	**0.59**	**J**	1.0	0.40	ug/L		10/25/24 15:15	10/28/24 17:11	1
Copper	**61**		2.0	0.50	ug/L		10/25/24 15:15	10/28/24 17:11	1
Iron	**1300**		100	47	ug/L		10/25/24 15:15	10/28/24 17:11	1
Lead	**0.23**	**J**	0.50	0.19	ug/L		10/25/24 15:15	10/28/24 17:11	1
Lithium	**43**		10	2.5	ug/L		10/25/24 15:15	10/29/24 12:13	1
Magnesium	**11000**		200	49	ug/L		10/25/24 15:15	10/28/24 17:11	1
Manganese	**31**		2.5	0.79	ug/L		10/25/24 15:15	10/28/24 17:11	1
Molybdenum	**54**		5.0	2.5	ug/L		10/25/24 15:15	10/28/24 17:11	1
Nickel	**1.4**	**J**	2.0	0.63	ug/L		10/25/24 15:15	10/28/24 17:11	1
Potassium	**5200**		500	110	ug/L		10/25/24 15:15	10/28/24 17:11	1
Selenium	<0.98		2.5	0.98	ug/L		10/25/24 15:15	10/28/24 17:11	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/25/24 15:15	10/29/24 12:13	1
Sodium	**100000**		200	77	ug/L		10/25/24 15:15	10/28/24 17:11	1
Strontium	**920**		4.0	0.64	ug/L		10/25/24 15:15	10/28/24 17:11	1
Thallium	<0.57		2.0	0.57	ug/L		10/25/24 15:15	10/28/24 17:11	1
Tin	<1.3		5.0	1.3	ug/L		10/25/24 15:15	10/28/24 17:11	1
Vanadium	**2.4**	**J**	5.0	2.2	ug/L		10/25/24 15:15	10/28/24 17:11	1
Zinc	<6.9		20	6.9	ug/L		10/25/24 15:15	10/28/24 17:11	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: TBN-01_20241007

Date Collected: 10/07/24 15:30
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-3

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**41**	**J**	100	25	ug/L		10/25/24 15:15	10/28/24 17:18	1
Antimony	<1.3		3.0	1.3	ug/L		10/25/24 15:15	10/28/24 17:18	1
Arsenic	**0.79**	**J**	1.0	0.23	ug/L		10/25/24 15:15	10/28/24 17:18	1
Barium	**110**		2.5	0.73	ug/L		10/25/24 15:15	10/28/24 17:18	1
Beryllium	<0.53		1.0	0.53	ug/L		10/25/24 15:15	10/29/24 12:18	1
Boron	**450**	**B**	50	13	ug/L		10/25/24 15:15	10/29/24 12:18	1
Cadmium	<0.17		0.50	0.17	ug/L		10/25/24 15:15	10/28/24 17:18	1
Calcium	**72000**		200	44	ug/L		10/25/24 15:15	10/28/24 17:18	1
Chromium	<1.1		5.0	1.1	ug/L		10/25/24 15:15	10/28/24 17:18	1
Cobalt	<0.40		1.0	0.40	ug/L		10/25/24 15:15	10/28/24 17:18	1
Copper	**18**		2.0	0.50	ug/L		10/25/24 15:15	10/28/24 17:18	1
Iron	**48**	**J**	100	47	ug/L		10/25/24 15:15	10/28/24 17:18	1
Lead	<0.19		0.50	0.19	ug/L		10/25/24 15:15	10/28/24 17:18	1
Lithium	**43**		10	2.5	ug/L		10/25/24 15:15	10/29/24 12:18	1
Magnesium	**11000**		200	49	ug/L		10/25/24 15:15	10/28/24 17:18	1
Manganese	**1.3**	**J**	2.5	0.79	ug/L		10/25/24 15:15	10/28/24 17:18	1
Molybdenum	**56**		5.0	2.5	ug/L		10/25/24 15:15	10/28/24 17:18	1
Nickel	<0.63		2.0	0.63	ug/L		10/25/24 15:15	10/28/24 17:18	1
Potassium	**5200**		500	110	ug/L		10/25/24 15:15	10/28/24 17:18	1
Selenium	<0.98		2.5	0.98	ug/L		10/25/24 15:15	10/28/24 17:18	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/25/24 15:15	10/29/24 12:18	1
Sodium	**100000**		200	77	ug/L		10/25/24 15:15	10/28/24 17:18	1
Strontium	**960**		4.0	0.64	ug/L		10/25/24 15:15	10/28/24 17:18	1
Thallium	<0.57		2.0	0.57	ug/L		10/25/24 15:15	10/28/24 17:18	1
Tin	<1.3		5.0	1.3	ug/L		10/25/24 15:15	10/28/24 17:18	1
Vanadium	<2.2		5.0	2.2	ug/L		10/25/24 15:15	10/28/24 17:18	1
Zinc	<6.9		20	6.9	ug/L		10/25/24 15:15	10/28/24 17:18	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**220**		0.91	0.46	mg/L		10/25/24 15:15	10/29/24 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**1.9**		1.0	0.18	mg/L			10/09/24 12:12	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			10/09/24 12:12	1
Chloride (EPA 300.0)	**210**	**B**	10	1.2	mg/L			10/25/24 16:11	10
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/09/24 12:12	1
Fluoride (EPA 300.0)	**0.55**	**J**	1.0	0.19	mg/L			10/09/24 12:12	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/09/24 12:12	1
Sulfate (EPA 300.0)	**31**		1.0	0.21	mg/L			10/09/24 12:12	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/18/24 10:47	10/18/24 13:27	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/29/24 10:57	10/31/24 14:07	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:19	1
Alkalinity (SM 2320B)	**71**		5.0	3.7	mg/L			10/17/24 13:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**71**		5.0	3.7	mg/L			10/17/24 13:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/17/24 13:49	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/29/24 08:11	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: TBN-01_20241007
Date Collected: 10/07/24 15:30
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	570		10	4.3	mg/L			10/13/24 23:33	1
Total Suspended Solids (SM 2540D)	13		5.0	1.9	mg/L			10/11/24 16:14	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/11/24 00:26	1
Total Organic Carbon (SM 5310C)	3.9		1.0	0.47	mg/L			10/21/24 21:43	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	4.0		1.0	0.47	mg/L			10/22/24 11:16	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: TBN-01_20241007_FBLL
Date Collected: 10/07/24 15:30
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-4
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 16:05	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: LKS-01_20241007

Date Collected: 10/07/24 15:00
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-5

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/22/24 11:10	10/22/24 21:39	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/22/24 11:10	10/22/24 21:49	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.32**	**J**	0.50	0.20	ng/L			10/25/24 16:09	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**	**J**	0.50	0.20	ng/L			10/25/24 16:14	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.074**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 17:05	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.058**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 16:26	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**560**		100	25	ug/L		10/28/24 08:35	10/29/24 15:27	1
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:27	1
Arsenic	**0.49**	**J**	1.0	0.23	ug/L		10/28/24 08:35	10/29/24 15:27	1
Barium	**16**		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 15:27	1
Beryllium	<0.53		1.0	0.53	ug/L		10/28/24 08:35	10/29/24 15:27	1
Boron	**15**	**J**	50	13	ug/L		10/28/24 08:35	10/30/24 12:31	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 15:27	1
Calcium	**14000**		200	44	ug/L		10/28/24 08:35	10/30/24 12:31	1
Chromium	<1.1		5.0	1.1	ug/L		10/28/24 08:35	10/29/24 15:27	1
Cobalt	<0.40		1.0	0.40	ug/L		10/28/24 08:35	10/29/24 15:27	1
Copper	**2.1**		2.0	0.50	ug/L		10/28/24 08:35	10/29/24 15:27	1
Iron	**560**		100	47	ug/L		10/28/24 08:35	10/29/24 15:27	1
Lead	**0.20**	**J**	0.50	0.19	ug/L		10/28/24 08:35	10/29/24 15:27	1
Lithium	<2.5		10	2.5	ug/L		10/28/24 08:35	10/29/24 15:27	1
Magnesium	**3200**		200	49	ug/L		10/28/24 08:35	10/29/24 15:27	1
Manganese	**16**		2.5	0.79	ug/L		10/28/24 08:35	10/29/24 15:27	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/28/24 08:35	10/29/24 15:27	1
Nickel	**0.83**	**J**	2.0	0.63	ug/L		10/28/24 08:35	10/29/24 15:27	1
Potassium	**700**		500	110	ug/L		10/28/24 08:35	10/29/24 15:27	1
Selenium	<0.98		2.5	0.98	ug/L		10/28/24 08:35	10/29/24 15:27	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 15:27	1
Sodium	**2000**		200	77	ug/L		10/28/24 08:35	10/29/24 15:27	1
Strontium	**24**		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 15:27	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 15:27	1
Tin	<1.3		5.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:27	1
Vanadium	<2.2		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 15:27	1
Zinc	<6.9		20	6.9	ug/L		10/28/24 08:35	10/29/24 15:27	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: LKS-01_20241007

Date Collected: 10/07/24 15:00
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-5

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/28/24 08:35	10/29/24 15:29	1
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:29	1
Arsenic	**0.32**	**J**	1.0	0.23	ug/L		10/28/24 08:35	10/29/24 15:29	1
Barium	**12**		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 15:29	1
Beryllium	<0.53		1.0	0.53	ug/L		10/28/24 08:35	10/29/24 15:29	1
Boron	<13		50	13	ug/L		10/28/24 08:35	10/30/24 12:33	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 15:29	1
Calcium	**14000**		200	44	ug/L		10/28/24 08:35	10/30/24 12:33	1
Chromium	<1.1		5.0	1.1	ug/L		10/28/24 08:35	10/29/24 15:29	1
Cobalt	<0.40		1.0	0.40	ug/L		10/28/24 08:35	10/29/24 15:29	1
Copper	**1.0**	**J**	2.0	0.50	ug/L		10/28/24 08:35	10/29/24 15:29	1
Iron	<47		100	47	ug/L		10/28/24 08:35	10/29/24 15:29	1
Lead	<0.19		0.50	0.19	ug/L		10/28/24 08:35	10/29/24 15:29	1
Lithium	<2.5		10	2.5	ug/L		10/28/24 08:35	10/29/24 15:29	1
Magnesium	**3000**		200	49	ug/L		10/28/24 08:35	10/29/24 15:29	1
Manganese	<0.79		2.5	0.79	ug/L		10/28/24 08:35	10/29/24 15:29	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/28/24 08:35	10/29/24 15:29	1
Nickel	<0.63		2.0	0.63	ug/L		10/28/24 08:35	10/29/24 15:29	1
Potassium	**550**		500	110	ug/L		10/28/24 08:35	10/29/24 15:29	1
Selenium	<0.98		2.5	0.98	ug/L		10/28/24 08:35	10/29/24 15:29	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 15:29	1
Sodium	**2000**		200	77	ug/L		10/28/24 08:35	10/29/24 15:29	1
Strontium	**24**		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 15:29	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 15:29	1
Tin	<1.3		5.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:29	1
Vanadium	<2.2		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 15:29	1
Zinc	<6.9		20	6.9	ug/L		10/28/24 08:35	10/29/24 15:29	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**48**		0.91	0.46	mg/L		10/28/24 08:35	10/30/24 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			10/09/24 12:27	1
Nitrate as N (EPA 300.0)	**0.66**	**J**	1.0	0.043	mg/L			10/09/24 12:27	1
Chloride (EPA 300.0)	**2.0**	**B**	1.0	0.12	mg/L			10/09/24 12:27	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/09/24 12:27	1
Fluoride (EPA 300.0)	**0.45**	**J**	1.0	0.19	mg/L			10/09/24 12:27	1
Nitrate Nitrite as N (EPA 300.0)	**0.66**	**J**	1.0	0.070	mg/L			10/09/24 12:27	1
Sulfate (EPA 300.0)	**3.5**		1.0	0.21	mg/L			10/09/24 12:27	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/18/24 10:47	10/18/24 13:28	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/29/24 10:57	10/31/24 14:07	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:20	1
Alkalinity (SM 2320B)	**47**		5.0	3.7	mg/L			10/17/24 14:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**47**		5.0	3.7	mg/L			10/17/24 14:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/17/24 14:00	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/29/24 08:11	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: LKS-01_20241007
Date Collected: 10/07/24 15:00
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-5
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	56		10	4.3	mg/L			10/13/24 23:35	1
Total Suspended Solids (SM 2540D)	18		5.0	1.9	mg/L			10/11/24 16:15	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/11/24 00:29	1
Total Organic Carbon (SM 5310C)	1.7		1.0	0.47	mg/L			10/21/24 22:11	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	1.8		1.0	0.47	mg/L			10/22/24 11:16	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: LKS-01_20241007_FBLL
Date Collected: 10/07/24 15:00
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-6
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 16:18	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: FB-01-GW_20241007

Date Collected: 10/07/24 12:45
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-7

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/22/24 11:10	10/22/24 21:59	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 16:22	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.036**	**J**	0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 16:05	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/28/24 08:35	10/29/24 15:31	1
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:31	1
Arsenic	<0.23		1.0	0.23	ug/L		10/28/24 08:35	10/29/24 15:31	1
Barium	<0.73		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 15:31	1
Beryllium	<0.53		1.0	0.53	ug/L		10/28/24 08:35	10/29/24 15:31	1
Boron	<13		50	13	ug/L		10/28/24 08:35	10/30/24 12:35	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 15:31	1
Calcium	<44		200	44	ug/L		10/28/24 08:35	10/30/24 12:35	1
Chromium	<1.1		5.0	1.1	ug/L		10/28/24 08:35	10/29/24 15:31	1
Cobalt	<0.40		1.0	0.40	ug/L		10/28/24 08:35	10/29/24 15:31	1
Copper	<0.50		2.0	0.50	ug/L		10/28/24 08:35	10/29/24 15:31	1
Iron	<47		100	47	ug/L		10/28/24 08:35	10/29/24 15:31	1
Lead	<0.19		0.50	0.19	ug/L		10/28/24 08:35	10/29/24 15:31	1
Lithium	<2.5		10	2.5	ug/L		10/28/24 08:35	10/29/24 15:31	1
Magnesium	<49		200	49	ug/L		10/28/24 08:35	10/29/24 15:31	1
Manganese	<0.79		2.5	0.79	ug/L		10/28/24 08:35	10/29/24 15:31	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/28/24 08:35	10/29/24 15:31	1
Nickel	<0.63		2.0	0.63	ug/L		10/28/24 08:35	10/29/24 15:31	1
Potassium	<110		500	110	ug/L		10/28/24 08:35	10/29/24 15:31	1
Selenium	<0.98		2.5	0.98	ug/L		10/28/24 08:35	10/29/24 15:31	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 15:31	1
Sodium	<77		200	77	ug/L		10/28/24 08:35	10/29/24 15:31	1
Strontium	<0.64		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 15:31	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 15:31	1
Tin	<1.3		5.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:31	1
Vanadium	<2.2		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 15:31	1
Zinc	<6.9		20	6.9	ug/L		10/28/24 08:35	10/29/24 15:31	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	<0.46		0.91	0.46	mg/L		10/28/24 08:35	10/30/24 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			10/09/24 11:41	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			10/09/24 11:41	1
Chloride (EPA 300.0)	**0.24**	**J B**	1.0	0.12	mg/L			10/09/24 11:41	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/09/24 11:41	1
Fluoride (EPA 300.0)	<0.19		1.0	0.19	mg/L			10/09/24 11:41	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: FB-01-GW_20241007

Date Collected: 10/07/24 12:45
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-7

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/09/24 11:41	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			10/09/24 11:41	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/18/24 10:47	10/18/24 13:28	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/29/24 15:20	10/31/24 14:18	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:21	1
Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			10/17/24 14:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/17/24 14:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/17/24 14:08	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/29/24 08:11	1
Total Dissolved Solids (SM 2540C)	**8.0**	**J**	10	4.3	mg/L			10/13/24 23:38	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			10/11/24 16:17	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/11/24 00:32	1
Total Organic Carbon (SM 5310C)	<0.47		1.0	0.47	mg/L			10/21/24 22:39	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: FB-01-GW_20241007_FBLL

Lab Sample ID: 500-258104-8

Date Collected: 10/07/24 12:45
Matrix: Water
Date Received: 10/09/24 10:05

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 16:26	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-31_20241007

Date Collected: 10/07/24 11:05
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-9

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/22/24 11:10	10/22/24 22:10	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/22/24 11:10	10/22/24 22:20	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.4**		0.50	0.20	ng/L			10/25/24 16:30	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 16:34	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**1.6**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 17:08	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**1.0**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 16:30	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19000**		100	25	ug/L		10/28/24 08:35	10/29/24 15:34	1
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:34	1
Arsenic	**7.0**		1.0	0.23	ug/L		10/28/24 08:35	10/29/24 15:34	1
Barium	**320**		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 15:34	1
Beryllium	**0.93**	**J**	1.0	0.53	ug/L		10/28/24 08:35	10/29/24 15:34	1
Boron	**790**		50	13	ug/L		10/28/24 08:35	10/30/24 12:38	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 15:34	1
Calcium	**35000**		200	44	ug/L		10/28/24 08:35	10/30/24 12:38	1
Chromium	**32**		5.0	1.1	ug/L		10/28/24 08:35	10/29/24 15:34	1
Cobalt	**14**		1.0	0.40	ug/L		10/28/24 08:35	10/29/24 15:34	1
Copper	**41**		2.0	0.50	ug/L		10/28/24 08:35	10/29/24 15:34	1
Iron	**20000**		100	47	ug/L		10/28/24 08:35	10/29/24 15:34	1
Lead	**9.4**		0.50	0.19	ug/L		10/28/24 08:35	10/29/24 15:34	1
Lithium	**49**		10	2.5	ug/L		10/28/24 08:35	10/29/24 15:34	1
Magnesium	**13000**		200	49	ug/L		10/28/24 08:35	10/29/24 15:34	1
Manganese	**500**		2.5	0.79	ug/L		10/28/24 08:35	10/29/24 15:34	1
Molybdenum	**6.6**		5.0	2.5	ug/L		10/28/24 08:35	10/29/24 15:34	1
Nickel	**32**		2.0	0.63	ug/L		10/28/24 08:35	10/29/24 15:34	1
Potassium	**7800**		500	110	ug/L		10/28/24 08:35	10/29/24 15:34	1
Selenium	**1.5**	**J**	2.5	0.98	ug/L		10/28/24 08:35	10/29/24 15:34	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 15:34	1
Sodium	**51000**		200	77	ug/L		10/28/24 08:35	10/29/24 15:34	1
Strontium	**420**		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 15:34	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 15:34	1
Tin	**1.3**	**J**	5.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:34	1
Vanadium	**44**		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 15:34	1
Zinc	**57**		20	6.9	ug/L		10/28/24 08:35	10/29/24 15:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-31_20241007

Date Collected: 10/07/24 11:05
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-9

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/28/24 08:35	10/29/24 15:36	1
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:36	1
Arsenic	**2.6**		1.0	0.23	ug/L		10/28/24 08:35	10/29/24 15:36	1
Barium	**120**		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 15:36	1
Beryllium	<0.53		1.0	0.53	ug/L		10/28/24 08:35	10/29/24 15:36	1
Boron	**800**		50	13	ug/L		10/28/24 08:35	10/30/24 12:40	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 15:36	1
Calcium	**21000**		200	44	ug/L		10/28/24 08:35	10/30/24 12:40	1
Chromium	<1.1		5.0	1.1	ug/L		10/28/24 08:35	10/29/24 15:36	1
Cobalt	<0.40		1.0	0.40	ug/L		10/28/24 08:35	10/29/24 15:36	1
Copper	<0.50		2.0	0.50	ug/L		10/28/24 08:35	10/29/24 15:36	1
Iron	<47		100	47	ug/L		10/28/24 08:35	10/29/24 15:36	1
Lead	<0.19		0.50	0.19	ug/L		10/28/24 08:35	10/29/24 15:36	1
Lithium	**23**		10	2.5	ug/L		10/28/24 08:35	10/29/24 15:36	1
Magnesium	**3900**		200	49	ug/L		10/28/24 08:35	10/29/24 15:36	1
Manganese	**44**		2.5	0.79	ug/L		10/28/24 08:35	10/29/24 15:36	1
Molybdenum	**5.8**		5.0	2.5	ug/L		10/28/24 08:35	10/29/24 15:36	1
Nickel	**1.5**	**J**	2.0	0.63	ug/L		10/28/24 08:35	10/29/24 15:36	1
Potassium	**2800**		500	110	ug/L		10/28/24 08:35	10/29/24 15:36	1
Selenium	<0.98		2.5	0.98	ug/L		10/28/24 08:35	10/29/24 15:36	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 15:36	1
Sodium	**50000**		200	77	ug/L		10/28/24 08:35	10/29/24 15:36	1
Strontium	**360**		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 15:36	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 15:36	1
Tin	<1.3		5.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:36	1
Vanadium	<2.2		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 15:36	1
Zinc	<6.9		20	6.9	ug/L		10/28/24 08:35	10/29/24 15:36	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**140**		0.91	0.46	mg/L		10/28/24 08:35	10/30/24 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.29**	**J**	1.0	0.18	mg/L			10/09/24 14:13	1
Nitrate as N (EPA 300.0)	<0.043	H	1.0	0.043	mg/L			10/09/24 14:13	1
Chloride (EPA 300.0)	**17**	**B**	1.0	0.12	mg/L			10/09/24 14:13	1
Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			10/09/24 14:13	1
Fluoride (EPA 300.0)	**0.69**	**J**	1.0	0.19	mg/L			10/09/24 14:13	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H	1.0	0.070	mg/L			10/09/24 14:13	1
Sulfate (EPA 300.0)	**21**		1.0	0.21	mg/L			10/09/24 14:13	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/18/24 10:47	10/18/24 13:31	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/29/24 15:20	10/31/24 14:18	1
Phosphorus as P (EPA 365.1)	**0.028**	**J**	0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:21	1
Alkalinity (SM 2320B)	**140**		5.0	3.7	mg/L			10/17/24 14:11	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**140**		5.0	3.7	mg/L			10/17/24 14:11	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/17/24 14:11	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/29/24 08:11	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-31_20241007
Date Collected: 10/07/24 11:05
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-9
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	280		10	4.3	mg/L			10/13/24 23:40	1
Total Suspended Solids (SM 2540D)	140		25	9.7	mg/L			10/11/24 16:21	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/11/24 00:36	1
Total Organic Carbon (SM 5310C)	1.3		1.0	0.47	mg/L			10/21/24 23:07	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	1.4		1.0	0.47	mg/L			10/22/24 11:16	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-31_20241007_FBLL

Date Collected: 10/07/24 11:05
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-10

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 16:38	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: LKS-02_20241007

Date Collected: 10/07/24 13:30
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-11

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.022**	**J**	0.050	0.022	ng/L		10/31/24 08:54	10/31/24 19:24	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/29/24 11:58	10/29/24 21:58	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.43**	**J**	0.50	0.20	ng/L			10/25/24 16:43	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 16:55	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.060**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 17:12	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.056**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 16:33	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**120**		100	25	ug/L		10/28/24 08:35	10/29/24 15:38	1
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:38	1
Arsenic	**0.39**	**J**	1.0	0.23	ug/L		10/28/24 08:35	10/29/24 15:38	1
Barium	**12**		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 15:38	1
Beryllium	<0.53		1.0	0.53	ug/L		10/28/24 08:35	10/29/24 15:38	1
Boron	**14**	**J**	50	13	ug/L		10/28/24 08:35	10/30/24 12:42	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 15:38	1
Calcium	**14000**		200	44	ug/L		10/28/24 08:35	10/30/24 12:42	1
Chromium	<1.1		5.0	1.1	ug/L		10/28/24 08:35	10/29/24 15:38	1
Cobalt	<0.40		1.0	0.40	ug/L		10/28/24 08:35	10/29/24 15:38	1
Copper	**1.3**	**J**	2.0	0.50	ug/L		10/28/24 08:35	10/29/24 15:38	1
Iron	**120**		100	47	ug/L		10/28/24 08:35	10/29/24 15:38	1
Lead	<0.19		0.50	0.19	ug/L		10/28/24 08:35	10/29/24 15:38	1
Lithium	<2.5		10	2.5	ug/L		10/28/24 08:35	10/29/24 15:38	1
Magnesium	**2900**		200	49	ug/L		10/28/24 08:35	10/29/24 15:38	1
Manganese	**5.1**		2.5	0.79	ug/L		10/28/24 08:35	10/29/24 15:38	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/28/24 08:35	10/29/24 15:38	1
Nickel	<0.63		2.0	0.63	ug/L		10/28/24 08:35	10/29/24 15:38	1
Potassium	**560**		500	110	ug/L		10/28/24 08:35	10/29/24 15:38	1
Selenium	<0.98		2.5	0.98	ug/L		10/28/24 08:35	10/29/24 15:38	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 15:38	1
Sodium	**1700**		200	77	ug/L		10/28/24 08:35	10/29/24 15:38	1
Strontium	**22**		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 15:38	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 15:38	1
Tin	<1.3		5.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:38	1
Vanadium	<2.2		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 15:38	1
Zinc	<6.9		20	6.9	ug/L		10/28/24 08:35	10/29/24 15:38	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: LKS-02_20241007

Date Collected: 10/07/24 13:30
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-11

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/28/24 08:35	10/29/24 15:41	1
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:41	1
Arsenic	**0.35**	**J**	1.0	0.23	ug/L		10/28/24 08:35	10/29/24 15:41	1
Barium	**11**		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 15:41	1
Beryllium	<0.53		1.0	0.53	ug/L		10/28/24 08:35	10/29/24 15:41	1
Boron	<13		50	13	ug/L		10/28/24 08:35	10/30/24 12:45	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 15:41	1
Calcium	**14000**		200	44	ug/L		10/28/24 08:35	10/30/24 12:45	1
Chromium	<1.1		5.0	1.1	ug/L		10/28/24 08:35	10/29/24 15:41	1
Cobalt	<0.40		1.0	0.40	ug/L		10/28/24 08:35	10/29/24 15:41	1
Copper	**0.73**	**J**	2.0	0.50	ug/L		10/28/24 08:35	10/29/24 15:41	1
Iron	<47		100	47	ug/L		10/28/24 08:35	10/29/24 15:41	1
Lead	<0.19		0.50	0.19	ug/L		10/28/24 08:35	10/29/24 15:41	1
Lithium	<2.5		10	2.5	ug/L		10/28/24 08:35	10/29/24 15:41	1
Magnesium	**2900**		200	49	ug/L		10/28/24 08:35	10/29/24 15:41	1
Manganese	**0.81**	**J**	2.5	0.79	ug/L		10/28/24 08:35	10/29/24 15:41	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/28/24 08:35	10/29/24 15:41	1
Nickel	<0.63		2.0	0.63	ug/L		10/28/24 08:35	10/29/24 15:41	1
Potassium	**530**		500	110	ug/L		10/28/24 08:35	10/29/24 15:41	1
Selenium	<0.98		2.5	0.98	ug/L		10/28/24 08:35	10/29/24 15:41	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 15:41	1
Sodium	**1700**		200	77	ug/L		10/28/24 08:35	10/29/24 15:41	1
Strontium	**22**		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 15:41	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 15:41	1
Tin	<1.3		5.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:41	1
Vanadium	<2.2		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 15:41	1
Zinc	<6.9		20	6.9	ug/L		10/28/24 08:35	10/29/24 15:41	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**47**		0.91	0.46	mg/L		10/28/24 08:35	10/30/24 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			10/09/24 11:57	1
Nitrate as N (EPA 300.0)	**0.67**	**J**	1.0	0.043	mg/L			10/09/24 11:57	1
Chloride (EPA 300.0)	**1.6**	**B**	1.0	0.12	mg/L			10/09/24 11:57	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/09/24 11:57	1
Fluoride (EPA 300.0)	**0.45**	**J**	1.0	0.19	mg/L			10/09/24 11:57	1
Nitrate Nitrite as N (EPA 300.0)	**0.67**	**J**	1.0	0.070	mg/L			10/09/24 11:57	1
Sulfate (EPA 300.0)	**3.5**		1.0	0.21	mg/L			10/09/24 11:57	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/18/24 10:47	10/18/24 13:32	1
Ammonia (EPA 350.1)	**1.5**		0.20	0.10	mg/L		10/29/24 15:20	10/31/24 14:19	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:22	1
Alkalinity (SM 2320B)	**52**		5.0	3.7	mg/L			10/17/24 14:22	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**52**		5.0	3.7	mg/L			10/17/24 14:22	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/17/24 14:22	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/29/24 08:11	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: LKS-02_20241007
Date Collected: 10/07/24 13:30
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-11
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	58		10	4.3	mg/L			10/13/24 23:43	1
Total Suspended Solids (SM 2540D)	6.0		5.0	1.9	mg/L			10/11/24 16:22	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/14/24 22:14	1
Total Organic Carbon (SM 5310C)	1.7		1.0	0.47	mg/L			10/21/24 23:35	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	1.7		1.0	0.47	mg/L			10/22/24 11:16	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: LKS-02_20241007_FBLL
Date Collected: 10/07/24 13:30
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-12
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 16:59	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-42_20241007

Date Collected: 10/07/24 14:00
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-13

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/29/24 11:58	10/29/24 22:08	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/29/24 11:58	10/29/24 22:18	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**3.5**		0.50	0.20	ng/L			10/25/24 17:03	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.5**		0.50	0.20	ng/L			10/25/24 17:07	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**7.7**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 17:15	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**7.5**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 16:37	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1500**		100	25	ug/L		10/28/24 08:35	10/29/24 15:43	1
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:43	1
Arsenic	**3.6**		1.0	0.23	ug/L		10/28/24 08:35	10/29/24 15:43	1
Barium	**18**		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 15:43	1
Beryllium	<0.53		1.0	0.53	ug/L		10/28/24 08:35	10/29/24 15:43	1
Boron	**620**		50	13	ug/L		10/28/24 08:35	10/30/24 12:52	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 15:43	1
Calcium	**2500**		200	44	ug/L		10/28/24 08:35	10/30/24 12:52	1
Chromium	**2.1**	**J**	5.0	1.1	ug/L		10/28/24 08:35	10/29/24 15:43	1
Cobalt	**0.61**	**J**	1.0	0.40	ug/L		10/28/24 08:35	10/29/24 15:43	1
Copper	**4.9**		2.0	0.50	ug/L		10/28/24 08:35	10/29/24 15:43	1
Iron	**1000**		100	47	ug/L		10/28/24 08:35	10/29/24 15:43	1
Lead	**0.35**	**J**	0.50	0.19	ug/L		10/28/24 08:35	10/29/24 15:43	1
Lithium	**15**		10	2.5	ug/L		10/28/24 08:35	10/29/24 15:43	1
Magnesium	**460**		200	49	ug/L		10/28/24 08:35	10/29/24 15:43	1
Manganese	**22**		2.5	0.79	ug/L		10/28/24 08:35	10/29/24 15:43	1
Molybdenum	**10**		5.0	2.5	ug/L		10/28/24 08:35	10/29/24 15:43	1
Nickel	**1.3**	**J**	2.0	0.63	ug/L		10/28/24 08:35	10/29/24 15:43	1
Potassium	**600**		500	110	ug/L		10/28/24 08:35	10/29/24 15:43	1
Selenium	<0.98		2.5	0.98	ug/L		10/28/24 08:35	10/29/24 15:43	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 15:43	1
Sodium	**65000**		200	77	ug/L		10/28/24 08:35	10/29/24 15:43	1
Strontium	**33**		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 15:43	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 15:43	1
Tin	<1.3		5.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:43	1
Vanadium	**20**		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 15:43	1
Zinc	<6.9		20	6.9	ug/L		10/28/24 08:35	10/29/24 15:43	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-42_20241007

Date Collected: 10/07/24 14:00
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-13

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**260**		100	25	ug/L		10/28/24 08:35	10/29/24 15:45	1
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:45	1
Arsenic	**3.7**		1.0	0.23	ug/L		10/28/24 08:35	10/29/24 15:45	1
Barium	**6.6**		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 15:45	1
Beryllium	<0.53		1.0	0.53	ug/L		10/28/24 08:35	10/29/24 15:45	1
Boron	**640**		50	13	ug/L		10/28/24 08:35	10/30/24 12:54	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 15:45	1
Calcium	**2400**		200	44	ug/L		10/28/24 08:35	10/30/24 12:54	1
Chromium	<1.1		5.0	1.1	ug/L		10/28/24 08:35	10/29/24 15:45	1
Cobalt	<0.40		1.0	0.40	ug/L		10/28/24 08:35	10/29/24 15:45	1
Copper	**3.3**		2.0	0.50	ug/L		10/28/24 08:35	10/29/24 15:45	1
Iron	**200**		100	47	ug/L		10/28/24 08:35	10/29/24 15:45	1
Lead	<0.19		0.50	0.19	ug/L		10/28/24 08:35	10/29/24 15:45	1
Lithium	**14**		10	2.5	ug/L		10/28/24 08:35	10/29/24 15:45	1
Magnesium	**170**	**J**	200	49	ug/L		10/28/24 08:35	10/29/24 15:45	1
Manganese	**5.0**		2.5	0.79	ug/L		10/28/24 08:35	10/29/24 15:45	1
Molybdenum	**11**		5.0	2.5	ug/L		10/28/24 08:35	10/29/24 15:45	1
Nickel	<0.63		2.0	0.63	ug/L		10/28/24 08:35	10/29/24 15:45	1
Potassium	**270**	**J**	500	110	ug/L		10/28/24 08:35	10/29/24 15:45	1
Selenium	<0.98		2.5	0.98	ug/L		10/28/24 08:35	10/29/24 15:45	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 15:45	1
Sodium	**65000**		200	77	ug/L		10/28/24 08:35	10/29/24 15:45	1
Strontium	**31**		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 15:45	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 15:45	1
Tin	<1.3		5.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:45	1
Vanadium	**18**		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 15:45	1
Zinc	<6.9		20	6.9	ug/L		10/28/24 08:35	10/29/24 15:45	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**8.1**		0.91	0.46	mg/L		10/28/24 08:35	10/30/24 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			10/09/24 12:42	1
Nitrate as N (EPA 300.0)	**0.46**	**J**	1.0	0.043	mg/L			10/09/24 12:42	1
Chloride (EPA 300.0)	**1.1**	**B**	1.0	0.12	mg/L			10/09/24 12:42	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/09/24 12:42	1
Fluoride (EPA 300.0)	**1.2**		1.0	0.19	mg/L			10/09/24 12:42	1
Nitrate Nitrite as N (EPA 300.0)	**0.46**	**J**	1.0	0.070	mg/L			10/09/24 12:42	1
Sulfate (EPA 300.0)	**13**		1.0	0.21	mg/L			10/09/24 12:42	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/18/24 10:47	10/18/24 13:35	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/29/24 15:20	10/31/24 14:19	1
Phosphorus as P (EPA 365.1)	**0.25**		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:22	1
Alkalinity (SM 2320B)	**130**		5.0	3.7	mg/L			10/17/24 14:30	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**120**		5.0	3.7	mg/L			10/17/24 14:30	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	**7.4**		5.0	3.7	mg/L			10/17/24 14:30	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/29/24 08:11	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-42_20241007
Date Collected: 10/07/24 14:00
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-13
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	190		10	4.3	mg/L			10/13/24 23:46	1
Total Suspended Solids (SM 2540D)	5.6		5.0	1.9	mg/L			10/14/24 14:02	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/14/24 22:18	1
Total Organic Carbon (SM 5310C)	2.5		1.0	0.47	mg/L			10/22/24 01:55	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	2.5		1.0	0.47	mg/L			10/22/24 11:16	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-42_20241007_FBLL

Date Collected: 10/07/24 14:00
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-14

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 17:12	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: TBS-01_20241008

Date Collected: 10/08/24 10:00
Date Received: 10/10/24 09:05

Lab Sample ID: 500-258104-15

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/29/24 11:58	10/29/24 22:28	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/29/24 11:58	10/29/24 22:39	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.27**	**J**	0.50	0.20	ng/L			10/25/24 17:16	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 17:20	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.21**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 17:19	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.20**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 16:40	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**170**		100	25	ug/L		10/28/24 08:35	10/29/24 15:53	1
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:53	1
Arsenic	**0.65**	**J**	1.0	0.23	ug/L		10/28/24 08:35	10/29/24 15:53	1
Barium	**90**		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 15:53	1
Beryllium	<0.53		1.0	0.53	ug/L		10/28/24 08:35	10/29/24 15:53	1
Boron	**420**		50	13	ug/L		10/28/24 08:35	10/30/24 12:57	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 15:53	1
Calcium	**74000**		200	44	ug/L		10/28/24 08:35	10/30/24 12:57	1
Chromium	<1.1		5.0	1.1	ug/L		10/28/24 08:35	10/29/24 15:53	1
Cobalt	<0.40		1.0	0.40	ug/L		10/28/24 08:35	10/29/24 15:53	1
Copper	**20**		2.0	0.50	ug/L		10/28/24 08:35	10/29/24 15:53	1
Iron	**260**		100	47	ug/L		10/28/24 08:35	10/29/24 15:53	1
Lead	<0.19		0.50	0.19	ug/L		10/28/24 08:35	10/29/24 15:53	1
Lithium	**42**		10	2.5	ug/L		10/28/24 08:35	10/30/24 14:32	1
Magnesium	**7700**		200	49	ug/L		10/28/24 08:35	10/29/24 15:53	1
Manganese	**6.7**		2.5	0.79	ug/L		10/28/24 08:35	10/29/24 15:53	1
Molybdenum	**4.6**	**J**	5.0	2.5	ug/L		10/28/24 08:35	10/29/24 15:53	1
Nickel	<0.63		2.0	0.63	ug/L		10/28/24 08:35	10/29/24 15:53	1
Potassium	**4000**		500	110	ug/L		10/28/24 08:35	10/29/24 15:53	1
Selenium	<0.98		2.5	0.98	ug/L		10/28/24 08:35	10/29/24 15:53	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 15:53	1
Sodium	**81000**		200	77	ug/L		10/28/24 08:35	10/29/24 15:53	1
Strontium	**1100**		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 15:53	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 15:53	1
Tin	<1.3		5.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:53	1
Vanadium	<2.2		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 15:53	1
Zinc	<6.9		20	6.9	ug/L		10/28/24 08:35	10/29/24 15:53	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: TBS-01_20241008

Date Collected: 10/08/24 10:00
Date Received: 10/10/24 09:05

Lab Sample ID: 500-258104-15

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/28/24 08:35	10/29/24 15:55	1
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:55	1
Arsenic	**0.65**	**J**	1.0	0.23	ug/L		10/28/24 08:35	10/29/24 15:55	1
Barium	**89**		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 15:55	1
Beryllium	<0.53		1.0	0.53	ug/L		10/28/24 08:35	10/29/24 15:55	1
Boron	**420**		50	13	ug/L		10/28/24 08:35	10/30/24 12:59	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 15:55	1
Calcium	**73000**		200	44	ug/L		10/28/24 08:35	10/30/24 12:59	1
Chromium	<1.1		5.0	1.1	ug/L		10/28/24 08:35	10/29/24 15:55	1
Cobalt	<0.40		1.0	0.40	ug/L		10/28/24 08:35	10/29/24 15:55	1
Copper	**12**		2.0	0.50	ug/L		10/28/24 08:35	10/29/24 15:55	1
Iron	<47		100	47	ug/L		10/28/24 08:35	10/29/24 15:55	1
Lead	<0.19		0.50	0.19	ug/L		10/28/24 08:35	10/29/24 15:55	1
Lithium	**42**		10	2.5	ug/L		10/28/24 08:35	10/30/24 14:36	1
Magnesium	**7600**		200	49	ug/L		10/28/24 08:35	10/29/24 15:55	1
Manganese	<0.79		2.5	0.79	ug/L		10/28/24 08:35	10/29/24 15:55	1
Molybdenum	**4.6**	**J**	5.0	2.5	ug/L		10/28/24 08:35	10/29/24 15:55	1
Nickel	<0.63		2.0	0.63	ug/L		10/28/24 08:35	10/29/24 15:55	1
Potassium	**3900**		500	110	ug/L		10/28/24 08:35	10/29/24 15:55	1
Selenium	<0.98		2.5	0.98	ug/L		10/28/24 08:35	10/29/24 15:55	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 15:55	1
Sodium	**80000**		200	77	ug/L		10/28/24 08:35	10/29/24 15:55	1
Strontium	**1100**		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 15:55	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 15:55	1
Tin	<1.3		5.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:55	1
Vanadium	<2.2		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 15:55	1
Zinc	<6.9		20	6.9	ug/L		10/28/24 08:35	10/29/24 15:55	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**220**		0.91	0.46	mg/L		10/28/24 08:35	10/30/24 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**1.8**		1.0	0.18	mg/L			10/10/24 11:29	1
Nitrate as N (EPA 300.0)	<0.043	H3	1.0	0.043	mg/L			10/10/24 11:29	1
Chloride (EPA 300.0)	**210**		10	1.2	mg/L			10/28/24 20:41	10
Nitrite as N (EPA 300.0)	<0.070	H H3	1.0	0.070	mg/L			10/10/24 11:29	1
Fluoride (EPA 300.0)	**0.55**	**J**	1.0	0.19	mg/L			10/10/24 11:29	1
Nitrate Nitrite as N (EPA 300.0)	<0.070	H H3	1.0	0.070	mg/L			10/10/24 11:29	1
Sulfate (EPA 300.0)	**32**		1.0	0.21	mg/L			10/10/24 11:29	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/18/24 10:47	10/18/24 13:35	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/29/24 15:20	10/31/24 14:20	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:23	1
Alkalinity (SM 2320B)	**54**	**B**	5.0	3.7	mg/L			10/21/24 18:24	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**54**	**B**	5.0	3.7	mg/L			10/21/24 18:24	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/21/24 18:24	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/29/24 08:11	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: TBS-01_20241008
Date Collected: 10/08/24 10:00
Date Received: 10/10/24 09:05

Lab Sample ID: 500-258104-15
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	470		10	4.3	mg/L			10/15/24 00:33	1
Total Suspended Solids (SM 2540D)	3.0	J	5.0	1.9	mg/L			10/14/24 15:56	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/14/24 22:22	1
Total Organic Carbon (SM 5310C)	5.9		1.0	0.47	mg/L			10/22/24 02:24	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	5.9		1.0	0.47	mg/L			10/22/24 11:16	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: TBS-01_20241008-FBLL

Date Collected: 10/08/24 10:00
Date Received: 10/10/24 09:05

Lab Sample ID: 500-258104-16

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 17:24	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: BNW-01_20241008

Date Collected: 10/08/24 12:00
Date Received: 10/10/24 09:05

Lab Sample ID: 500-258104-17

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/29/24 11:58	10/29/24 22:49	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/29/24 11:58	10/29/24 22:59	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.51**		0.50	0.20	ng/L			10/25/24 17:28	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 17:32	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.085**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 17:22	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.084**		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 16:44	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**54**	**J**	100	25	ug/L		10/28/24 08:35	10/29/24 15:57	1
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:57	1
Arsenic	**0.41**	**J**	1.0	0.23	ug/L		10/28/24 08:35	10/29/24 15:57	1
Barium	**29**		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 15:57	1
Beryllium	<0.53		1.0	0.53	ug/L		10/28/24 08:35	10/29/24 15:57	1
Boron	**14**	**J**	50	13	ug/L		10/28/24 08:35	10/30/24 13:01	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 15:57	1
Calcium	**28000**		200	44	ug/L		10/28/24 08:35	10/30/24 13:01	1
Chromium	<1.1		5.0	1.1	ug/L		10/28/24 08:35	10/29/24 15:57	1
Cobalt	<0.40		1.0	0.40	ug/L		10/28/24 08:35	10/29/24 15:57	1
Copper	**1.5**	**J**	2.0	0.50	ug/L		10/28/24 08:35	10/29/24 15:57	1
Iron	**190**		100	47	ug/L		10/28/24 08:35	10/29/24 15:57	1
Lead	<0.19		0.50	0.19	ug/L		10/28/24 08:35	10/29/24 15:57	1
Lithium	<2.5	^+	10	2.5	ug/L		10/28/24 08:35	10/30/24 13:01	1
Magnesium	**6700**		200	49	ug/L		10/28/24 08:35	10/29/24 15:57	1
Manganese	**16**		2.5	0.79	ug/L		10/28/24 08:35	10/29/24 15:57	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/28/24 08:35	10/29/24 15:57	1
Nickel	<0.63		2.0	0.63	ug/L		10/28/24 08:35	10/29/24 15:57	1
Potassium	**230**	**J**	500	110	ug/L		10/28/24 08:35	10/29/24 15:57	1
Selenium	<0.98		2.5	0.98	ug/L		10/28/24 08:35	10/29/24 15:57	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 15:57	1
Sodium	**1600**		200	77	ug/L		10/28/24 08:35	10/29/24 15:57	1
Strontium	**84**		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 15:57	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 15:57	1
Tin	<1.3		5.0	1.3	ug/L		10/28/24 08:35	10/29/24 15:57	1
Vanadium	<2.2		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 15:57	1
Zinc	<6.9		20	6.9	ug/L		10/28/24 08:35	10/29/24 15:57	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: BNW-01_20241008

Date Collected: 10/08/24 12:00
Date Received: 10/10/24 09:05

Lab Sample ID: 500-258104-17

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/28/24 08:35	10/29/24 16:00	1
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 16:00	1
Arsenic	**0.40**	**J**	1.0	0.23	ug/L		10/28/24 08:35	10/29/24 16:00	1
Barium	**26**		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 16:00	1
Beryllium	<0.53		1.0	0.53	ug/L		10/28/24 08:35	10/29/24 16:00	1
Boron	<13		50	13	ug/L		10/28/24 08:35	10/30/24 13:04	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 16:00	1
Calcium	**28000**		200	44	ug/L		10/28/24 08:35	10/30/24 13:04	1
Chromium	<1.1		5.0	1.1	ug/L		10/28/24 08:35	10/29/24 16:00	1
Cobalt	<0.40		1.0	0.40	ug/L		10/28/24 08:35	10/29/24 16:00	1
Copper	**0.94**	**J**	2.0	0.50	ug/L		10/28/24 08:35	10/29/24 16:00	1
Iron	<47		100	47	ug/L		10/28/24 08:35	10/29/24 16:00	1
Lead	<0.19		0.50	0.19	ug/L		10/28/24 08:35	10/29/24 16:00	1
Lithium	<2.5	^+	10	2.5	ug/L		10/28/24 08:35	10/30/24 13:04	1
Magnesium	**6700**		200	49	ug/L		10/28/24 08:35	10/29/24 16:00	1
Manganese	**4.0**		2.5	0.79	ug/L		10/28/24 08:35	10/29/24 16:00	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/28/24 08:35	10/29/24 16:00	1
Nickel	<0.63		2.0	0.63	ug/L		10/28/24 08:35	10/29/24 16:00	1
Potassium	**210**	**J**	500	110	ug/L		10/28/24 08:35	10/29/24 16:00	1
Selenium	<0.98		2.5	0.98	ug/L		10/28/24 08:35	10/29/24 16:00	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 16:00	1
Sodium	**1600**		200	77	ug/L		10/28/24 08:35	10/29/24 16:00	1
Strontium	**84**		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 16:00	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 16:00	1
Tin	<1.3		5.0	1.3	ug/L		10/28/24 08:35	10/29/24 16:00	1
Vanadium	<2.2		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 16:00	1
Zinc	<6.9		20	6.9	ug/L		10/28/24 08:35	10/29/24 16:00	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**97**		0.91	0.46	mg/L		10/28/24 08:35	10/30/24 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			10/10/24 10:28	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			10/10/24 10:28	1
Chloride (EPA 300.0)	**1.4**	**B**	1.0	0.12	mg/L			10/10/24 10:28	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/10/24 10:28	1
Fluoride (EPA 300.0)	**0.47**	**J**	1.0	0.19	mg/L			10/10/24 10:28	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/10/24 10:28	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			10/10/24 10:28	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		10/18/24 10:47	10/18/24 13:36	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/29/24 15:20	10/31/24 14:21	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:23	1
Alkalinity (SM 2320B)	**100**		5.0	3.7	mg/L			10/22/24 15:51	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**100**		5.0	3.7	mg/L			10/22/24 15:51	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/22/24 15:51	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/29/24 08:11	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: BNW-01_20241008
Date Collected: 10/08/24 12:00
Date Received: 10/10/24 09:05

Lab Sample ID: 500-258104-17
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	86		10	4.3	mg/L			10/15/24 00:36	1
Total Suspended Solids (SM 2540D)	3.8	J	5.0	1.9	mg/L			10/14/24 15:58	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/14/24 22:26	1
Total Organic Carbon (SM 5310C)	6.7		1.0	0.47	mg/L			10/22/24 02:52	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	6.8		1.0	0.47	mg/L			10/22/24 11:16	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: BNW-01_20241008-FBLL
Date Collected: 10/08/24 12:00
Date Received: 10/10/24 09:05

Lab Sample ID: 500-258104-18
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 17:45	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: BNC-01_20241008

Date Collected: 10/08/24 15:30
Date Received: 10/10/24 09:05

Lab Sample ID: 500-258104-19

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/29/24 11:58	10/29/24 23:09	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/29/24 11:58	10/29/24 23:19	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.28**	**J**	0.50	0.20	ng/L			10/25/24 17:49	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 17:53	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 17:26	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 16:47	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/28/24 08:35	10/29/24 16:02	1
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 16:02	1
Arsenic	**0.23**	**J**	1.0	0.23	ug/L		10/28/24 08:35	10/29/24 16:02	1
Barium	**58**		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 16:02	1
Beryllium	<0.53		1.0	0.53	ug/L		10/28/24 08:35	10/29/24 16:02	1
Boron	**20**	**J**	50	13	ug/L		10/28/24 08:35	10/30/24 13:06	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 16:02	1
Calcium	**18000**		200	44	ug/L		10/28/24 08:35	10/30/24 13:06	1
Chromium	<1.1		5.0	1.1	ug/L		10/28/24 08:35	10/29/24 16:02	1
Cobalt	<0.40		1.0	0.40	ug/L		10/28/24 08:35	10/29/24 16:02	1
Copper	**0.99**	**J**	2.0	0.50	ug/L		10/28/24 08:35	10/29/24 16:02	1
Iron	<47		100	47	ug/L		10/28/24 08:35	10/29/24 16:02	1
Lead	<0.19		0.50	0.19	ug/L		10/28/24 08:35	10/29/24 16:02	1
Lithium	**3.2**	**J ^+**	10	2.5	ug/L		10/28/24 08:35	10/30/24 13:06	1
Magnesium	**3100**		200	49	ug/L		10/28/24 08:35	10/29/24 16:02	1
Manganese	**5.3**		2.5	0.79	ug/L		10/28/24 08:35	10/29/24 16:02	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/28/24 08:35	10/29/24 16:02	1
Nickel	<0.63		2.0	0.63	ug/L		10/28/24 08:35	10/29/24 16:02	1
Potassium	**370**	**J**	500	110	ug/L		10/28/24 08:35	10/29/24 16:02	1
Selenium	<0.98		2.5	0.98	ug/L		10/28/24 08:35	10/29/24 16:02	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 16:02	1
Sodium	**4300**		200	77	ug/L		10/28/24 08:35	10/29/24 16:02	1
Strontium	**83**		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 16:02	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 16:02	1
Tin	<1.3		5.0	1.3	ug/L		10/28/24 08:35	10/29/24 16:02	1
Vanadium	<2.2		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 16:02	1
Zinc	<6.9		20	6.9	ug/L		10/28/24 08:35	10/29/24 16:02	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: BNC-01_20241008

Date Collected: 10/08/24 15:30
Date Received: 10/10/24 09:05

Lab Sample ID: 500-258104-19

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/28/24 08:35	10/29/24 16:04	1
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 16:04	1
Arsenic	**0.24**	**J**	1.0	0.23	ug/L		10/28/24 08:35	10/29/24 16:04	1
Barium	**61**		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 16:04	1
Beryllium	<0.53		1.0	0.53	ug/L		10/28/24 08:35	10/29/24 16:04	1
Boron	**18**	**J**	50	13	ug/L		10/28/24 08:35	10/30/24 13:08	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 16:04	1
Calcium	**18000**		200	44	ug/L		10/28/24 08:35	10/30/24 13:08	1
Chromium	<1.1		5.0	1.1	ug/L		10/28/24 08:35	10/29/24 16:04	1
Cobalt	<0.40		1.0	0.40	ug/L		10/28/24 08:35	10/29/24 16:04	1
Copper	**1.3**	**J**	2.0	0.50	ug/L		10/28/24 08:35	10/29/24 16:04	1
Iron	**270**		100	47	ug/L		10/28/24 08:35	10/29/24 16:04	1
Lead	<0.19		0.50	0.19	ug/L		10/28/24 08:35	10/29/24 16:04	1
Lithium	**3.1**	**J ^+**	10	2.5	ug/L		10/28/24 08:35	10/30/24 13:08	1
Magnesium	**3100**		200	49	ug/L		10/28/24 08:35	10/29/24 16:04	1
Manganese	**36**		2.5	0.79	ug/L		10/28/24 08:35	10/29/24 16:04	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/28/24 08:35	10/29/24 16:04	1
Nickel	<0.63		2.0	0.63	ug/L		10/28/24 08:35	10/29/24 16:04	1
Potassium	**360**	**J**	500	110	ug/L		10/28/24 08:35	10/29/24 16:04	1
Selenium	<0.98		2.5	0.98	ug/L		10/28/24 08:35	10/29/24 16:04	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 16:04	1
Sodium	**4300**		200	77	ug/L		10/28/24 08:35	10/29/24 16:04	1
Strontium	**85**		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 16:04	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 16:04	1
Tin	<1.3		5.0	1.3	ug/L		10/28/24 08:35	10/29/24 16:04	1
Vanadium	<2.2		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 16:04	1
Zinc	<6.9		20	6.9	ug/L		10/28/24 08:35	10/29/24 16:04	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**57**		0.91	0.46	mg/L		10/28/24 08:35	10/30/24 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.18		1.0	0.18	mg/L			10/10/24 10:43	1
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			10/10/24 10:43	1
Chloride (EPA 300.0)	**10**	**B**	1.0	0.12	mg/L			10/10/24 10:43	1
Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/10/24 10:43	1
Fluoride (EPA 300.0)	**0.48**	**J**	1.0	0.19	mg/L			10/10/24 10:43	1
Nitrate Nitrite as N (EPA 300.0)	<0.070		1.0	0.070	mg/L			10/10/24 10:43	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			10/10/24 10:43	1
Cyanide, Total (EPA 335.4)	**0.0040**	**J**	0.0050	0.0036	mg/L		10/18/24 10:47	10/18/24 13:36	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		10/29/24 15:20	10/31/24 14:21	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		11/04/24 11:20	11/05/24 14:21	1
Alkalinity (SM 2320B)	**51**		5.0	3.7	mg/L			10/22/24 16:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**51**		5.0	3.7	mg/L			10/22/24 16:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			10/22/24 16:00	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			10/29/24 08:11	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: BNC-01_20241008
Date Collected: 10/08/24 15:30
Date Received: 10/10/24 09:05

Lab Sample ID: 500-258104-19
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	44		10	4.3	mg/L			10/15/24 01:19	1
Total Suspended Solids (SM 2540D)	6.0		5.0	1.9	mg/L			10/14/24 15:59	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			10/14/24 22:30	1
Total Organic Carbon (SM 5310C)	7.9		1.0	0.47	mg/L			10/22/24 03:20	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	8.3		1.0	0.47	mg/L			10/22/24 11:16	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: BNC-01_20241008-FBLL
Date Collected: 10/08/24 15:30
Date Received: 10/10/24 09:05

Lab Sample ID: 500-258104-20
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 17:57	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: FB-02_20241008-FBLL

Date Collected: 10/08/24 17:30
Date Received: 10/10/24 09:05

Lab Sample ID: 500-258104-21

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 18:01	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 3067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Dissolved	Water	1638	
500-258104-1	MW-38_20241007	Total Recoverable	Water	1638	
500-258104-3	TBN-01_20241007	Dissolved	Water	1638	
500-258104-3	TBN-01_20241007	Total Recoverable	Water	1638	
500-258104-5	LKS-01_20241007	Dissolved	Water	1638	
500-258104-5	LKS-01_20241007	Total Recoverable	Water	1638	
500-258104-7	FB-01-GW_20241007	Total Recoverable	Water	1638	
500-258104-9	MW-31_20241007	Dissolved	Water	1638	
500-258104-9	MW-31_20241007	Total Recoverable	Water	1638	
500-258104-11	LKS-02_20241007	Dissolved	Water	1638	
500-258104-11	LKS-02_20241007	Total Recoverable	Water	1638	
500-258104-13	MW-42_20241007	Dissolved	Water	1638	
500-258104-13	MW-42_20241007	Total Recoverable	Water	1638	
500-258104-15	TBS-01_20241008	Dissolved	Water	1638	
500-258104-15	TBS-01_20241008	Total Recoverable	Water	1638	
500-258104-17	BNW-01_20241008	Dissolved	Water	1638	
500-258104-17	BNW-01_20241008	Total Recoverable	Water	1638	
500-258104-19	BNC-01_20241008	Dissolved	Water	1638	
500-258104-19	BNC-01_20241008	Total Recoverable	Water	1638	
MB 350-3067/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-3067/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-3067/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-3067/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-258104-1 MS	MW-38_20241007	Dissolved	Water	1638	
500-258104-1 MSD	MW-38_20241007	Dissolved	Water	1638	
500-258104-7 MS	FB-01-GW_20241007	Total Recoverable	Water	1638	
500-258104-7 MSD	FB-01-GW_20241007	Total Recoverable	Water	1638	

Analysis Batch: 3084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Dissolved	Water	1638	3067
500-258104-1	MW-38_20241007	Total Recoverable	Water	1638	3067
500-258104-3	TBN-01_20241007	Dissolved	Water	1638	3067
500-258104-3	TBN-01_20241007	Total Recoverable	Water	1638	3067
500-258104-5	LKS-01_20241007	Dissolved	Water	1638	3067
500-258104-5	LKS-01_20241007	Total Recoverable	Water	1638	3067
500-258104-7	FB-01-GW_20241007	Total Recoverable	Water	1638	3067
500-258104-9	MW-31_20241007	Dissolved	Water	1638	3067
500-258104-9	MW-31_20241007	Total Recoverable	Water	1638	3067
500-258104-11	LKS-02_20241007	Dissolved	Water	1638	3067
500-258104-11	LKS-02_20241007	Total Recoverable	Water	1638	3067
500-258104-13	MW-42_20241007	Dissolved	Water	1638	3067
500-258104-13	MW-42_20241007	Total Recoverable	Water	1638	3067
500-258104-15	TBS-01_20241008	Dissolved	Water	1638	3067
500-258104-15	TBS-01_20241008	Total Recoverable	Water	1638	3067
500-258104-17	BNW-01_20241008	Dissolved	Water	1638	3067
500-258104-17	BNW-01_20241008	Total Recoverable	Water	1638	3067
500-258104-19	BNC-01_20241008	Dissolved	Water	1638	3067
500-258104-19	BNC-01_20241008	Total Recoverable	Water	1638	3067
MB 350-3067/1-A	Method Blank	Total Recoverable	Water	1638	3067
MB 350-3067/2-A	Method Blank	Total Recoverable	Water	1638	3067

Metals (Continued)

Analysis Batch: 3084 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 350-3067/3-A	Lab Control Sample	Total Recoverable	Water	1638	3067
LCSD 350-3067/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	3067
500-258104-1 MS	MW-38_20241007	Dissolved	Water	1638	3067
500-258104-1 MSD	MW-38_20241007	Dissolved	Water	1638	3067
500-258104-7 MS	FB-01-GW_20241007	Total Recoverable	Water	1638	3067
500-258104-7 MSD	FB-01-GW_20241007	Total Recoverable	Water	1638	3067

Prep Batch: 3090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Dissolved	Water	1630	
500-258104-1	MW-38_20241007	Total/NA	Water	1630	
500-258104-3	TBN-01_20241007	Dissolved	Water	1630	
500-258104-3	TBN-01_20241007	Total/NA	Water	1630	
500-258104-5	LKS-01_20241007	Dissolved	Water	1630	
500-258104-5	LKS-01_20241007	Total/NA	Water	1630	
500-258104-7	FB-01-GW_20241007	Total/NA	Water	1630	
500-258104-9	MW-31_20241007	Dissolved	Water	1630	
500-258104-9	MW-31_20241007	Total/NA	Water	1630	
MB 350-3090/1-A	Method Blank	Total/NA	Water	1630	
MB 350-3090/2-A	Method Blank	Total/NA	Water	1630	
MB 350-3090/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-3090/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-3090/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 3111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Dissolved	Water	1630	3090
500-258104-1	MW-38_20241007	Total/NA	Water	1630	3090
500-258104-3	TBN-01_20241007	Dissolved	Water	1630	3090
500-258104-3	TBN-01_20241007	Total/NA	Water	1630	3090
500-258104-5	LKS-01_20241007	Dissolved	Water	1630	3090
500-258104-5	LKS-01_20241007	Total/NA	Water	1630	3090
500-258104-7	FB-01-GW_20241007	Total/NA	Water	1630	3090
500-258104-9	MW-31_20241007	Dissolved	Water	1630	3090
500-258104-9	MW-31_20241007	Total/NA	Water	1630	3090
MB 350-3090/1-A	Method Blank	Total/NA	Water	1630	3090
MB 350-3090/2-A	Method Blank	Total/NA	Water	1630	3090
MB 350-3090/3-A	Method Blank	Total/NA	Water	1630	3090
LCS 350-3090/4-A	Lab Control Sample	Total/NA	Water	1630	3090
LCSD 350-3090/5-A	Lab Control Sample Dup	Total/NA	Water	1630	3090

Analysis Batch: 3142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Dissolved	Water	1631E	
500-258104-1	MW-38_20241007	Total/NA	Water	1631E	
500-258104-2	MW-38_20241007_FBLL	Total/NA	Water	1631E	
500-258104-3	TBN-01_20241007	Dissolved	Water	1631E	
500-258104-3	TBN-01_20241007	Total/NA	Water	1631E	
500-258104-4	TBN-01_20241007_FBLL	Total/NA	Water	1631E	
500-258104-5	LKS-01_20241007	Dissolved	Water	1631E	
500-258104-5	LKS-01_20241007	Total/NA	Water	1631E	

Metals (Continued)

Analysis Batch: 3142 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-6	LKS-01_20241007_FBLL	Total/NA	Water	1631E	
500-258104-7	FB-01-GW_20241007	Total/NA	Water	1631E	
500-258104-8	FB-01-GW_20241007_FBLL	Total/NA	Water	1631E	
500-258104-9	MW-31_20241007	Dissolved	Water	1631E	
500-258104-9	MW-31_20241007	Total/NA	Water	1631E	
500-258104-10	MW-31_20241007_FBLL	Total/NA	Water	1631E	
500-258104-11	LKS-02_20241007	Dissolved	Water	1631E	
500-258104-11	LKS-02_20241007	Total/NA	Water	1631E	
500-258104-12	LKS-02_20241007_FBLL	Total/NA	Water	1631E	
500-258104-13	MW-42_20241007	Dissolved	Water	1631E	
500-258104-13	MW-42_20241007	Total/NA	Water	1631E	
500-258104-14	MW-42_20241007_FBLL	Total/NA	Water	1631E	
500-258104-15	TBS-01_20241008	Dissolved	Water	1631E	
500-258104-15	TBS-01_20241008	Total/NA	Water	1631E	
500-258104-16	TBS-01_20241008-FBLL	Total/NA	Water	1631E	
500-258104-17	BNW-01_20241008	Dissolved	Water	1631E	
500-258104-17	BNW-01_20241008	Total/NA	Water	1631E	
500-258104-18	BNW-01_20241008-FBLL	Total/NA	Water	1631E	
500-258104-19	BNC-01_20241008	Dissolved	Water	1631E	
500-258104-19	BNC-01_20241008	Total/NA	Water	1631E	
500-258104-20	BNC-01_20241008-FBLL	Total/NA	Water	1631E	
500-258104-21	FB-02_20241008-FBLL	Total/NA	Water	1631E	
MB 350-3142/19	Method Blank	Total/NA	Water	1631E	
MB 350-3142/20	Method Blank	Total/NA	Water	1631E	
MB 350-3142/23	Method Blank	Total/NA	Water	1631E	
MB 350-3142/26	Method Blank	Total/NA	Water	1631E	
MB 350-3142/27	Method Blank	Total/NA	Water	1631E	
MB 350-3142/28	Method Blank	Total/NA	Water	1631E	
LCS 350-3142/24	Lab Control Sample	Total/NA	Water	1631E	
LCS 350-3142/29	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-3142/25	Lab Control Sample Dup	Total/NA	Water	1631E	
LCSD 350-3142/30	Lab Control Sample Dup	Total/NA	Water	1631E	

Prep Batch: 3150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-11	LKS-02_20241007	Dissolved	Water	1630	
500-258104-13	MW-42_20241007	Dissolved	Water	1630	
500-258104-13	MW-42_20241007	Total/NA	Water	1630	
500-258104-15	TBS-01_20241008	Dissolved	Water	1630	
500-258104-15	TBS-01_20241008	Total/NA	Water	1630	
500-258104-17	BNW-01_20241008	Dissolved	Water	1630	
500-258104-17	BNW-01_20241008	Total/NA	Water	1630	
500-258104-19	BNC-01_20241008	Dissolved	Water	1630	
500-258104-19	BNC-01_20241008	Total/NA	Water	1630	
MB 350-3150/1-A	Method Blank	Total/NA	Water	1630	
MB 350-3150/2-A	Method Blank	Total/NA	Water	1630	
MB 350-3150/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-3150/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-3150/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Metals

Analysis Batch: 3168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-11	LKS-02_20241007	Dissolved	Water	1630	3150
500-258104-13	MW-42_20241007	Dissolved	Water	1630	3150
500-258104-13	MW-42_20241007	Total/NA	Water	1630	3150
500-258104-15	TBS-01_20241008	Dissolved	Water	1630	3150
500-258104-15	TBS-01_20241008	Total/NA	Water	1630	3150
500-258104-17	BNW-01_20241008	Dissolved	Water	1630	3150
500-258104-17	BNW-01_20241008	Total/NA	Water	1630	3150
500-258104-19	BNC-01_20241008	Dissolved	Water	1630	3150
500-258104-19	BNC-01_20241008	Total/NA	Water	1630	3150
MB 350-3150/1-A	Method Blank	Total/NA	Water	1630	3150
MB 350-3150/2-A	Method Blank	Total/NA	Water	1630	3150
MB 350-3150/3-A	Method Blank	Total/NA	Water	1630	3150
LCS 350-3150/4-A	Lab Control Sample	Total/NA	Water	1630	3150
LCSD 350-3150/5-A	Lab Control Sample Dup	Total/NA	Water	1630	3150

Prep Batch: 3169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-11	LKS-02_20241007	Total/NA	Water	1630	
MB 350-3169/1-A	Method Blank	Total/NA	Water	1630	
MB 350-3169/2-A	Method Blank	Total/NA	Water	1630	
MB 350-3169/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-3169/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-3169/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 3200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-11	LKS-02_20241007	Total/NA	Water	1630	3169
MB 350-3169/1-A	Method Blank	Total/NA	Water	1630	3169
MB 350-3169/2-A	Method Blank	Total/NA	Water	1630	3169
MB 350-3169/3-A	Method Blank	Total/NA	Water	1630	3169
LCS 350-3169/4-A	Lab Control Sample	Total/NA	Water	1630	3169
LCSD 350-3169/5-A	Lab Control Sample Dup	Total/NA	Water	1630	3169

Prep Batch: 792427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Dissolved	Water	3005A	
500-258104-1	MW-38_20241007	Total Recoverable	Water	3005A	
500-258104-3	TBN-01_20241007	Dissolved	Water	3005A	
500-258104-3	TBN-01_20241007	Total Recoverable	Water	3005A	
MB 500-792427/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-792427/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 792605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-5	LKS-01_20241007	Dissolved	Water	3005A	
500-258104-5	LKS-01_20241007	Total Recoverable	Water	3005A	
500-258104-7	FB-01-GW_20241007	Total Recoverable	Water	3005A	
500-258104-9	MW-31_20241007	Dissolved	Water	3005A	
500-258104-9	MW-31_20241007	Total Recoverable	Water	3005A	
500-258104-11	LKS-02_20241007	Dissolved	Water	3005A	
500-258104-11	LKS-02_20241007	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 792605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-13	MW-42_20241007	Dissolved	Water	3005A	
500-258104-13	MW-42_20241007	Total Recoverable	Water	3005A	
500-258104-15	TBS-01_20241008	Dissolved	Water	3005A	
500-258104-15	TBS-01_20241008	Total Recoverable	Water	3005A	
500-258104-17	BNW-01_20241008	Dissolved	Water	3005A	
500-258104-17	BNW-01_20241008	Total Recoverable	Water	3005A	
500-258104-19	BNC-01_20241008	Dissolved	Water	3005A	
500-258104-19	BNC-01_20241008	Total Recoverable	Water	3005A	
MB 500-792605/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-792605/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 792811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Dissolved	Water	6020B	792427
500-258104-1	MW-38_20241007	Total Recoverable	Water	6020B	792427
500-258104-3	TBN-01_20241007	Dissolved	Water	6020B	792427
500-258104-3	TBN-01_20241007	Total Recoverable	Water	6020B	792427
MB 500-792427/1-A	Method Blank	Total Recoverable	Water	6020B	792427
LCS 500-792427/2-A	Lab Control Sample	Total Recoverable	Water	6020B	792427

Analysis Batch: 792863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Total Recoverable	Water	SM 2340B	792427
500-258104-3	TBN-01_20241007	Total Recoverable	Water	SM 2340B	792427
500-258104-5	LKS-01_20241007	Total Recoverable	Water	SM 2340B	792605
500-258104-7	FB-01-GW_20241007	Total Recoverable	Water	SM 2340B	792605
500-258104-9	MW-31_20241007	Total Recoverable	Water	SM 2340B	792605
500-258104-11	LKS-02_20241007	Total Recoverable	Water	SM 2340B	792605
500-258104-13	MW-42_20241007	Total Recoverable	Water	SM 2340B	792605
500-258104-15	TBS-01_20241008	Total Recoverable	Water	SM 2340B	792605
500-258104-17	BNW-01_20241008	Total Recoverable	Water	SM 2340B	792605
500-258104-19	BNC-01_20241008	Total Recoverable	Water	SM 2340B	792605

Analysis Batch: 793045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Dissolved	Water	6020B	792427
500-258104-1	MW-38_20241007	Total Recoverable	Water	6020B	792427
500-258104-3	TBN-01_20241007	Dissolved	Water	6020B	792427
500-258104-3	TBN-01_20241007	Total Recoverable	Water	6020B	792427
500-258104-5	LKS-01_20241007	Dissolved	Water	6020B	792605
500-258104-5	LKS-01_20241007	Total Recoverable	Water	6020B	792605
500-258104-7	FB-01-GW_20241007	Total Recoverable	Water	6020B	792605
500-258104-9	MW-31_20241007	Dissolved	Water	6020B	792605
500-258104-9	MW-31_20241007	Total Recoverable	Water	6020B	792605
500-258104-11	LKS-02_20241007	Dissolved	Water	6020B	792605
500-258104-11	LKS-02_20241007	Total Recoverable	Water	6020B	792605
500-258104-13	MW-42_20241007	Dissolved	Water	6020B	792605
500-258104-13	MW-42_20241007	Total Recoverable	Water	6020B	792605
500-258104-15	TBS-01_20241008	Dissolved	Water	6020B	792605
500-258104-15	TBS-01_20241008	Total Recoverable	Water	6020B	792605
500-258104-17	BNW-01_20241008	Dissolved	Water	6020B	792605

Metals (Continued)

Analysis Batch: 793045 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-17	BNW-01_20241008	Total Recoverable	Water	6020B	792605
500-258104-19	BNC-01_20241008	Dissolved	Water	6020B	792605
500-258104-19	BNC-01_20241008	Total Recoverable	Water	6020B	792605
MB 500-792427/1-A	Method Blank	Total Recoverable	Water	6020B	792427
MB 500-792605/1-A	Method Blank	Total Recoverable	Water	6020B	792605
LCS 500-792427/2-A	Lab Control Sample	Total Recoverable	Water	6020B	792427
LCS 500-792605/2-A	Lab Control Sample	Total Recoverable	Water	6020B	792605

Analysis Batch: 793150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-5	LKS-01_20241007	Dissolved	Water	6020B	792605
500-258104-5	LKS-01_20241007	Total Recoverable	Water	6020B	792605
500-258104-7	FB-01-GW_20241007	Total Recoverable	Water	6020B	792605
500-258104-9	MW-31_20241007	Dissolved	Water	6020B	792605
500-258104-9	MW-31_20241007	Total Recoverable	Water	6020B	792605
500-258104-11	LKS-02_20241007	Dissolved	Water	6020B	792605
500-258104-11	LKS-02_20241007	Total Recoverable	Water	6020B	792605
500-258104-13	MW-42_20241007	Dissolved	Water	6020B	792605
500-258104-13	MW-42_20241007	Total Recoverable	Water	6020B	792605
500-258104-15	TBS-01_20241008	Dissolved	Water	6020B	792605
500-258104-15	TBS-01_20241008	Total Recoverable	Water	6020B	792605
500-258104-17	BNW-01_20241008	Dissolved	Water	6020B	792605
500-258104-17	BNW-01_20241008	Total Recoverable	Water	6020B	792605
500-258104-19	BNC-01_20241008	Dissolved	Water	6020B	792605
500-258104-19	BNC-01_20241008	Total Recoverable	Water	6020B	792605
MB 500-792605/1-A	Method Blank	Total Recoverable	Water	6020B	792605
LCS 500-792605/2-A	Lab Control Sample	Total Recoverable	Water	6020B	792605

Analysis Batch: 793227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-15	TBS-01_20241008	Dissolved	Water	6020B	792605
500-258104-15	TBS-01_20241008	Total Recoverable	Water	6020B	792605

General Chemistry

Analysis Batch: 789763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Total/NA	Water	300.0	
500-258104-3	TBN-01_20241007	Total/NA	Water	300.0	
500-258104-5	LKS-01_20241007	Total/NA	Water	300.0	
500-258104-7	FB-01-GW_20241007	Total/NA	Water	300.0	
500-258104-9	MW-31_20241007	Total/NA	Water	300.0	
500-258104-11	LKS-02_20241007	Total/NA	Water	300.0	
500-258104-13	MW-42_20241007	Total/NA	Water	300.0	
MB 500-789763/3	Method Blank	Total/NA	Water	300.0	
LCS 500-789763/4	Lab Control Sample	Total/NA	Water	300.0	
500-258104-13 MS	MW-42_20241007	Total/NA	Water	300.0	
500-258104-13 MSD	MW-42_20241007	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 789764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Total/NA	Water	300.0	
500-258104-3	TBN-01_20241007	Total/NA	Water	300.0	
500-258104-5	LKS-01_20241007	Total/NA	Water	300.0	
500-258104-7	FB-01-GW_20241007	Total/NA	Water	300.0	
500-258104-9	MW-31_20241007	Total/NA	Water	300.0	
500-258104-11	LKS-02_20241007	Total/NA	Water	300.0	
500-258104-13	MW-42_20241007	Total/NA	Water	300.0	
MB 500-789764/3	Method Blank	Total/NA	Water	300.0	
LCS 500-789764/4	Lab Control Sample	Total/NA	Water	300.0	
500-258104-13 MS	MW-42_20241007	Total/NA	Water	300.0	
500-258104-13 MSD	MW-42_20241007	Total/NA	Water	300.0	

Analysis Batch: 789940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-15	TBS-01_20241008	Total/NA	Water	300.0	
500-258104-17	BNW-01_20241008	Total/NA	Water	300.0	
500-258104-19	BNC-01_20241008	Total/NA	Water	300.0	
MB 500-789940/3	Method Blank	Total/NA	Water	300.0	
LCS 500-789940/4	Lab Control Sample	Total/NA	Water	300.0	
500-258104-19 MS	BNC-01_20241008	Total/NA	Water	300.0	
500-258104-19 MSD	BNC-01_20241008	Total/NA	Water	300.0	

Analysis Batch: 789941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-15	TBS-01_20241008	Total/NA	Water	300.0	
500-258104-17	BNW-01_20241008	Total/NA	Water	300.0	
500-258104-19	BNC-01_20241008	Total/NA	Water	300.0	
MB 500-789941/3	Method Blank	Total/NA	Water	300.0	
LCS 500-789941/4	Lab Control Sample	Total/NA	Water	300.0	
500-258104-19 MS	BNC-01_20241008	Total/NA	Water	300.0	
500-258104-19 MSD	BNC-01_20241008	Total/NA	Water	300.0	

Analysis Batch: 790104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Total/NA	Water	SM 4500 S2 F	
500-258104-3	TBN-01_20241007	Total/NA	Water	SM 4500 S2 F	
500-258104-5	LKS-01_20241007	Total/NA	Water	SM 4500 S2 F	
500-258104-7	FB-01-GW_20241007	Total/NA	Water	SM 4500 S2 F	
500-258104-9	MW-31_20241007	Total/NA	Water	SM 4500 S2 F	
MB 500-790104/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-790104/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 790257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Total/NA	Water	SM 2540D	
500-258104-3	TBN-01_20241007	Total/NA	Water	SM 2540D	
500-258104-5	LKS-01_20241007	Total/NA	Water	SM 2540D	
500-258104-7	FB-01-GW_20241007	Total/NA	Water	SM 2540D	
500-258104-9	MW-31_20241007	Total/NA	Water	SM 2540D	
500-258104-11	LKS-02_20241007	Total/NA	Water	SM 2540D	
MB 500-790257/1	Method Blank	Total/NA	Water	SM 2540D	

General Chemistry (Continued)

Analysis Batch: 790257 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-790257/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-258104-7 MS	FB-01-GW_20241007	Total/NA	Water	SM 2540D	
500-258104-7 DU	FB-01-GW_20241007	Total/NA	Water	SM 2540D	

Analysis Batch: 790410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Total/NA	Water	SM 2540C	
MB 500-790410/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-790410/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 790411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-3	TBN-01_20241007	Total/NA	Water	SM 2540C	
500-258104-5	LKS-01_20241007	Total/NA	Water	SM 2540C	
500-258104-7	FB-01-GW_20241007	Total/NA	Water	SM 2540C	
500-258104-9	MW-31_20241007	Total/NA	Water	SM 2540C	
500-258104-11	LKS-02_20241007	Total/NA	Water	SM 2540C	
500-258104-13	MW-42_20241007	Total/NA	Water	SM 2540C	
MB 500-790411/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-790411/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 790551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-13	MW-42_20241007	Total/NA	Water	SM 2540D	
MB 500-790551/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-790551/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 790582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-15	TBS-01_20241008	Total/NA	Water	SM 2540D	
500-258104-17	BNW-01_20241008	Total/NA	Water	SM 2540D	
500-258104-19	BNC-01_20241008	Total/NA	Water	SM 2540D	
MB 500-790582/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-790582/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 790607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-11	LKS-02_20241007	Total/NA	Water	SM 4500 S2 F	
500-258104-13	MW-42_20241007	Total/NA	Water	SM 4500 S2 F	
500-258104-15	TBS-01_20241008	Total/NA	Water	SM 4500 S2 F	
500-258104-17	BNW-01_20241008	Total/NA	Water	SM 4500 S2 F	
500-258104-19	BNC-01_20241008	Total/NA	Water	SM 4500 S2 F	
MB 500-790607/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-790607/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 790608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-15	TBS-01_20241008	Total/NA	Water	SM 2540C	
500-258104-17	BNW-01_20241008	Total/NA	Water	SM 2540C	
MB 500-790608/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-790608/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry

Analysis Batch: 790609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-19	BNC-01_20241008	Total/NA	Water	SM 2540C	
MB 500-790609/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-790609/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Prep Batch: 790946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Total/NA	Water	Distill/CN	
MB 500-790946/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-790946/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
500-258104-1 MS	MW-38_20241007	Total/NA	Water	Distill/CN	
500-258104-1 MSD	MW-38_20241007	Total/NA	Water	Distill/CN	

Analysis Batch: 791024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Total/NA	Water	335.4	790946
MB 500-790946/1-A	Method Blank	Total/NA	Water	335.4	790946
LCS 500-790946/2-A	Lab Control Sample	Total/NA	Water	335.4	790946
500-258104-1 MS	MW-38_20241007	Total/NA	Water	335.4	790946
500-258104-1 MSD	MW-38_20241007	Total/NA	Water	335.4	790946

Analysis Batch: 791279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Total/NA	Water	SM 2320B	
500-258104-3	TBN-01_20241007	Total/NA	Water	SM 2320B	
500-258104-5	LKS-01_20241007	Total/NA	Water	SM 2320B	
500-258104-7	FB-01-GW_20241007	Total/NA	Water	SM 2320B	
500-258104-9	MW-31_20241007	Total/NA	Water	SM 2320B	
500-258104-11	LKS-02_20241007	Total/NA	Water	SM 2320B	
500-258104-13	MW-42_20241007	Total/NA	Water	SM 2320B	
MB 500-791279/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-791279/4	Lab Control Sample	Total/NA	Water	SM 2320B	
500-258104-1 DU	MW-38_20241007	Total/NA	Water	SM 2320B	

Prep Batch: 791350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-3	TBN-01_20241007	Total/NA	Water	Distill/CN	
500-258104-5	LKS-01_20241007	Total/NA	Water	Distill/CN	
500-258104-7	FB-01-GW_20241007	Total/NA	Water	Distill/CN	
500-258104-9	MW-31_20241007	Total/NA	Water	Distill/CN	
500-258104-11	LKS-02_20241007	Total/NA	Water	Distill/CN	
500-258104-13	MW-42_20241007	Total/NA	Water	Distill/CN	
500-258104-15	TBS-01_20241008	Total/NA	Water	Distill/CN	
500-258104-17	BNW-01_20241008	Total/NA	Water	Distill/CN	
500-258104-19	BNC-01_20241008	Total/NA	Water	Distill/CN	
MB 500-791350/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-791350/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
500-258104-7 MS	FB-01-GW_20241007	Total/NA	Water	Distill/CN	
500-258104-7 MSD	FB-01-GW_20241007	Total/NA	Water	Distill/CN	

General Chemistry

Analysis Batch: 791450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-3	TBN-01_20241007	Total/NA	Water	335.4	791350
500-258104-5	LKS-01_20241007	Total/NA	Water	335.4	791350
500-258104-7	FB-01-GW_20241007	Total/NA	Water	335.4	791350
500-258104-9	MW-31_20241007	Total/NA	Water	335.4	791350
500-258104-11	LKS-02_20241007	Total/NA	Water	335.4	791350
500-258104-13	MW-42_20241007	Total/NA	Water	335.4	791350
500-258104-15	TBS-01_20241008	Total/NA	Water	335.4	791350
500-258104-17	BNW-01_20241008	Total/NA	Water	335.4	791350
500-258104-19	BNC-01_20241008	Total/NA	Water	335.4	791350
MB 500-791350/1-A	Method Blank	Total/NA	Water	335.4	791350
LCS 500-791350/2-A	Lab Control Sample	Total/NA	Water	335.4	791350
500-258104-7 MS	FB-01-GW_20241007	Total/NA	Water	335.4	791350
500-258104-7 MSD	FB-01-GW_20241007	Total/NA	Water	335.4	791350

Prep Batch: 791606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Total/NA	Water	365.2/365.3/365	
500-258104-3	TBN-01_20241007	Total/NA	Water	365.2/365.3/365	
500-258104-5	LKS-01_20241007	Total/NA	Water	365.2/365.3/365	
500-258104-7	FB-01-GW_20241007	Total/NA	Water	365.2/365.3/365	
500-258104-9	MW-31_20241007	Total/NA	Water	365.2/365.3/365	
500-258104-11	LKS-02_20241007	Total/NA	Water	365.2/365.3/365	
500-258104-13	MW-42_20241007	Total/NA	Water	365.2/365.3/365	
500-258104-15	TBS-01_20241008	Total/NA	Water	365.2/365.3/365	
500-258104-17	BNW-01_20241008	Total/NA	Water	365.2/365.3/365	
MB 500-791606/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-791606/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 791737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-15	TBS-01_20241008	Total/NA	Water	SM 2320B	
MB 500-791737/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-791737/29	Lab Control Sample	Total/NA	Water	SM 2320B	
500-258104-15 DU	TBS-01_20241008	Total/NA	Water	SM 2320B	

Analysis Batch: 791784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Total/NA	Water	SM 5310C	
500-258104-3	TBN-01_20241007	Total/NA	Water	SM 5310C	
500-258104-5	LKS-01_20241007	Total/NA	Water	SM 5310C	
500-258104-7	FB-01-GW_20241007	Total/NA	Water	SM 5310C	
500-258104-9	MW-31_20241007	Total/NA	Water	SM 5310C	
500-258104-11	LKS-02_20241007	Total/NA	Water	SM 5310C	
500-258104-13	MW-42_20241007	Total/NA	Water	SM 5310C	
500-258104-15	TBS-01_20241008	Total/NA	Water	SM 5310C	
500-258104-17	BNW-01_20241008	Total/NA	Water	SM 5310C	
500-258104-19	BNC-01_20241008	Total/NA	Water	SM 5310C	
MB 500-791784/31	Method Blank	Total/NA	Water	SM 5310C	
MB 500-791784/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-791784/32	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 500-791784/8	Lab Control Sample	Total/NA	Water	SM 5310C	

General Chemistry (Continued)

Analysis Batch: 791784 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-19 MS	BNC-01_20241008	Total/NA	Water	SM 5310C	
500-258104-19 MSD	BNC-01_20241008	Total/NA	Water	SM 5310C	

Analysis Batch: 791790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Dissolved	Water	SM 5310C	
500-258104-3	TBN-01_20241007	Dissolved	Water	SM 5310C	
500-258104-5	LKS-01_20241007	Dissolved	Water	SM 5310C	
500-258104-9	MW-31_20241007	Dissolved	Water	SM 5310C	
500-258104-11	LKS-02_20241007	Dissolved	Water	SM 5310C	
500-258104-13	MW-42_20241007	Dissolved	Water	SM 5310C	
500-258104-15	TBS-01_20241008	Dissolved	Water	SM 5310C	
500-258104-17	BNW-01_20241008	Dissolved	Water	SM 5310C	
500-258104-19	BNC-01_20241008	Dissolved	Water	SM 5310C	
MB 500-791790/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-791790/8	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 791946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-17	BNW-01_20241008	Total/NA	Water	SM 2320B	
500-258104-19	BNC-01_20241008	Total/NA	Water	SM 2320B	
MB 500-791946/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-791946/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 792014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Total/NA	Water	365.1	791606
500-258104-3	TBN-01_20241007	Total/NA	Water	365.1	791606
500-258104-5	LKS-01_20241007	Total/NA	Water	365.1	791606
500-258104-7	FB-01-GW_20241007	Total/NA	Water	365.1	791606
500-258104-9	MW-31_20241007	Total/NA	Water	365.1	791606
500-258104-11	LKS-02_20241007	Total/NA	Water	365.1	791606
500-258104-13	MW-42_20241007	Total/NA	Water	365.1	791606
500-258104-15	TBS-01_20241008	Total/NA	Water	365.1	791606
500-258104-17	BNW-01_20241008	Total/NA	Water	365.1	791606
MB 500-791606/1-A	Method Blank	Total/NA	Water	365.1	791606
LCS 500-791606/2-A	Lab Control Sample	Total/NA	Water	365.1	791606

Analysis Batch: 792271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-3	TBN-01_20241007	Total/NA	Water	300.0	
MB 500-792271/3	Method Blank	Total/NA	Water	300.0	
LCS 500-792271/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 792703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-15	TBS-01_20241008	Total/NA	Water	300.0	
MB 500-792703/3	Method Blank	Total/NA	Water	300.0	
LCS 500-792703/4	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 792801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Total/NA	Water	SM 2520B	
500-258104-3	TBN-01_20241007	Total/NA	Water	SM 2520B	
500-258104-5	LKS-01_20241007	Total/NA	Water	SM 2520B	
500-258104-7	FB-01-GW_20241007	Total/NA	Water	SM 2520B	
500-258104-9	MW-31_20241007	Total/NA	Water	SM 2520B	
500-258104-11	LKS-02_20241007	Total/NA	Water	SM 2520B	
500-258104-13	MW-42_20241007	Total/NA	Water	SM 2520B	
500-258104-15	TBS-01_20241008	Total/NA	Water	SM 2520B	
500-258104-17	BNW-01_20241008	Total/NA	Water	SM 2520B	
500-258104-19	BNC-01_20241008	Total/NA	Water	SM 2520B	
500-258104-11 DU	LKS-02_20241007	Total/NA	Water	SM 2520B	

Prep Batch: 792813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Total/NA	Water	Distill/Ammonia	
500-258104-3	TBN-01_20241007	Total/NA	Water	Distill/Ammonia	
500-258104-5	LKS-01_20241007	Total/NA	Water	Distill/Ammonia	
MB 500-792813/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-792813/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Prep Batch: 792898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-7	FB-01-GW_20241007	Total/NA	Water	Distill/Ammonia	
500-258104-9	MW-31_20241007	Total/NA	Water	Distill/Ammonia	
500-258104-11	LKS-02_20241007	Total/NA	Water	Distill/Ammonia	
500-258104-13	MW-42_20241007	Total/NA	Water	Distill/Ammonia	
500-258104-15	TBS-01_20241008	Total/NA	Water	Distill/Ammonia	
500-258104-17	BNW-01_20241008	Total/NA	Water	Distill/Ammonia	
500-258104-19	BNC-01_20241008	Total/NA	Water	Distill/Ammonia	
MB 500-792898/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-792898/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 793360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-1	MW-38_20241007	Total/NA	Water	350.1	792813
500-258104-3	TBN-01_20241007	Total/NA	Water	350.1	792813
500-258104-5	LKS-01_20241007	Total/NA	Water	350.1	792813
500-258104-7	FB-01-GW_20241007	Total/NA	Water	350.1	792898
500-258104-9	MW-31_20241007	Total/NA	Water	350.1	792898
500-258104-11	LKS-02_20241007	Total/NA	Water	350.1	792898
500-258104-13	MW-42_20241007	Total/NA	Water	350.1	792898
500-258104-15	TBS-01_20241008	Total/NA	Water	350.1	792898
500-258104-17	BNW-01_20241008	Total/NA	Water	350.1	792898
500-258104-19	BNC-01_20241008	Total/NA	Water	350.1	792898
MB 500-792813/1-A	Method Blank	Total/NA	Water	350.1	792813
MB 500-792898/1-A	Method Blank	Total/NA	Water	350.1	792898
LCS 500-792813/2-A	Lab Control Sample	Total/NA	Water	350.1	792813
LCS 500-792898/2-A	Lab Control Sample	Total/NA	Water	350.1	792898

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

General Chemistry

Prep Batch: 793744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-19	BNC-01_20241008	Total/NA	Water	365.2/365.3/365	
MB 500-793744/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-793744/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
500-258104-19 MS	BNC-01_20241008	Total/NA	Water	365.2/365.3/365	
500-258104-19 MSD	BNC-01_20241008	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 794180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258104-19	BNC-01_20241008	Total/NA	Water	365.1	793744
MB 500-793744/1-A	Method Blank	Total/NA	Water	365.1	793744
LCS 500-793744/2-A	Lab Control Sample	Total/NA	Water	365.1	793744
500-258104-19 MS	BNC-01_20241008	Total/NA	Water	365.1	793744
500-258104-19 MSD	BNC-01_20241008	Total/NA	Water	365.1	793744

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-3090/1-A
Matrix: Water
Analysis Batch: 3111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3090

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/22/24 11:10	10/22/24 17:14	1

Lab Sample ID: MB 350-3090/2-A
Matrix: Water
Analysis Batch: 3111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3090

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/22/24 11:10	10/22/24 17:24	1

Lab Sample ID: MB 350-3090/3-A
Matrix: Water
Analysis Batch: 3111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3090

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/22/24 11:10	10/22/24 17:34	1

Lab Sample ID: LCS 350-3090/4-A
Matrix: Water
Analysis Batch: 3111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.789		ng/L		79	65 - 135

Lab Sample ID: LCSD 350-3090/5-A
Matrix: Water
Analysis Batch: 3111

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3090

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.787		ng/L		79	65 - 135	0	35

Lab Sample ID: MB 350-3150/1-A
Matrix: Water
Analysis Batch: 3168

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/29/24 11:58	10/29/24 17:53	1

Lab Sample ID: MB 350-3150/2-A
Matrix: Water
Analysis Batch: 3168

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/29/24 11:58	10/29/24 18:03	1

Lab Sample ID: MB 350-3150/3-A
Matrix: Water
Analysis Batch: 3168

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/29/24 11:58	10/29/24 18:14	1

Method: 1630 - Methyl Mercury

Lab Sample ID: LCS 350-3150/4-A
Matrix: Water
Analysis Batch: 3168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.852		ng/L		85	65 - 135

Lab Sample ID: LCSD 350-3150/5-A
Matrix: Water
Analysis Batch: 3168

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3150

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.777		ng/L		78	65 - 135	9	35

Lab Sample ID: MB 350-3169/1-A
Matrix: Water
Analysis Batch: 3200

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/31/24 08:54	10/31/24 17:11	1

Lab Sample ID: MB 350-3169/2-A
Matrix: Water
Analysis Batch: 3200

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/31/24 08:54	10/31/24 17:21	1

Lab Sample ID: MB 350-3169/3-A
Matrix: Water
Analysis Batch: 3200

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		10/31/24 08:54	10/31/24 17:32	1

Lab Sample ID: LCS 350-3169/4-A
Matrix: Water
Analysis Batch: 3200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.828		ng/L		83	65 - 135

Lab Sample ID: LCSD 350-3169/5-A
Matrix: Water
Analysis Batch: 3200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3169

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.791		ng/L		79	65 - 135	5	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-3142/19
Matrix: Water
Analysis Batch: 3142

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 12:30	1

Lab Sample ID: MB 350-3142/20
Matrix: Water
Analysis Batch: 3142

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 12:34	1

Lab Sample ID: MB 350-3142/23
Matrix: Water
Analysis Batch: 3142

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 12:46	1

Lab Sample ID: MB 350-3142/26
Matrix: Water
Analysis Batch: 3142

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 12:59	1

Lab Sample ID: MB 350-3142/27
Matrix: Water
Analysis Batch: 3142

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 13:03	1

Lab Sample ID: MB 350-3142/28
Matrix: Water
Analysis Batch: 3142

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			10/25/24 13:07	1

Lab Sample ID: LCS 350-3142/24
Matrix: Water
Analysis Batch: 3142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			5.00	4.94		ng/L		99	77 - 123		

Lab Sample ID: LCS 350-3142/29
Matrix: Water
Analysis Batch: 3142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			5.00	4.95		ng/L		99	77 - 123		

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: LCSD 350-3142/25
Matrix: Water
Analysis Batch: 3142

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			5.00	5.01		ng/L		100	77 - 123	1	24

Lab Sample ID: LCSD 350-3142/30
Matrix: Water
Analysis Batch: 3142

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			5.00	4.86		ng/L		97	77 - 123	2	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-3067/1-A
Matrix: Water
Analysis Batch: 3084

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 3067

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 15:40	1

Lab Sample ID: MB 350-3067/2-A
Matrix: Water
Analysis Batch: 3084

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 3067

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		10/18/24 11:00	10/18/24 15:44	1

Lab Sample ID: LCS 350-3067/3-A
Matrix: Water
Analysis Batch: 3084

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 3067

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium			25.0	23.1		ug/L		93	85 - 115		

Lab Sample ID: LCSD 350-3067/4-A
Matrix: Water
Analysis Batch: 3084

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 3067

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium			25.0	23.4		ug/L		94	85 - 115	1	20

Lab Sample ID: 500-258104-7 MS
Matrix: Water
Analysis Batch: 3084

Client Sample ID: FB-01-GW_20241007
Prep Type: Total Recoverable
Prep Batch: 3067

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium	0.036	J	25.0	24.1		ug/L		96	70 - 130		

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-258104-7 MSD
Matrix: Water
Analysis Batch: 3084

Client Sample ID: FB-01-GW_20241007
Prep Type: Total Recoverable
Prep Batch: 3067

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	0.036	J	25.0	24.2		ug/L		97	70 - 130	1	20

Lab Sample ID: 500-258104-1 MS
Matrix: Water
Analysis Batch: 3084

Client Sample ID: MW-38_20241007
Prep Type: Dissolved
Prep Batch: 3067

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	7.8		25.0	31.4		ug/L		94	70 - 130

Lab Sample ID: 500-258104-1 MSD
Matrix: Water
Analysis Batch: 3084

Client Sample ID: MW-38_20241007
Prep Type: Dissolved
Prep Batch: 3067

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	7.8		25.0	31.7		ug/L		96	70 - 130	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-792427/1-A
Matrix: Water
Analysis Batch: 792811

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 792427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/25/24 15:15	10/28/24 15:57	1
Antimony	<1.3		3.0	1.3	ug/L		10/25/24 15:15	10/28/24 15:57	1
Arsenic	<0.23		1.0	0.23	ug/L		10/25/24 15:15	10/28/24 15:57	1
Barium	<0.73		2.5	0.73	ug/L		10/25/24 15:15	10/28/24 15:57	1
Beryllium	<0.53		1.0	0.53	ug/L		10/25/24 15:15	10/28/24 15:57	1
Cadmium	<0.17		0.50	0.17	ug/L		10/25/24 15:15	10/28/24 15:57	1
Calcium	<44		200	44	ug/L		10/25/24 15:15	10/28/24 15:57	1
Chromium	<1.1		5.0	1.1	ug/L		10/25/24 15:15	10/28/24 15:57	1
Cobalt	<0.40		1.0	0.40	ug/L		10/25/24 15:15	10/28/24 15:57	1
Copper	<0.50		2.0	0.50	ug/L		10/25/24 15:15	10/28/24 15:57	1
Iron	<47		100	47	ug/L		10/25/24 15:15	10/28/24 15:57	1
Lead	<0.19		0.50	0.19	ug/L		10/25/24 15:15	10/28/24 15:57	1
Magnesium	<49		200	49	ug/L		10/25/24 15:15	10/28/24 15:57	1
Manganese	<0.79		2.5	0.79	ug/L		10/25/24 15:15	10/28/24 15:57	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/25/24 15:15	10/28/24 15:57	1
Nickel	<0.63		2.0	0.63	ug/L		10/25/24 15:15	10/28/24 15:57	1
Potassium	<110		500	110	ug/L		10/25/24 15:15	10/28/24 15:57	1
Selenium	<0.98		2.5	0.98	ug/L		10/25/24 15:15	10/28/24 15:57	1
Sodium	<77		200	77	ug/L		10/25/24 15:15	10/28/24 15:57	1
Strontium	<0.64		4.0	0.64	ug/L		10/25/24 15:15	10/28/24 15:57	1
Thallium	<0.57		2.0	0.57	ug/L		10/25/24 15:15	10/28/24 15:57	1
Tin	<1.3		5.0	1.3	ug/L		10/25/24 15:15	10/28/24 15:57	1
Vanadium	<2.2		5.0	2.2	ug/L		10/25/24 15:15	10/28/24 15:57	1
Zinc	<6.9		20	6.9	ug/L		10/25/24 15:15	10/28/24 15:57	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-792427/1-A
Matrix: Water
Analysis Batch: 793045

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 792427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	17.2	J	50	13	ug/L		10/25/24 15:15	10/29/24 12:00	1
Lithium	<2.5		10	2.5	ug/L		10/25/24 15:15	10/29/24 12:00	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/25/24 15:15	10/29/24 12:00	1

Lab Sample ID: LCS 500-792427/2-A
Matrix: Water
Analysis Batch: 792811

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 792427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	2030		ug/L		101	80 - 120
Antimony	500	521		ug/L		104	80 - 120
Arsenic	100	97.4		ug/L		97	80 - 120
Barium	500	498		ug/L		100	80 - 120
Beryllium	50.0	54.4		ug/L		109	80 - 120
Cadmium	50.0	51.7		ug/L		103	80 - 120
Calcium	10000	8660		ug/L		87	80 - 120
Chromium	200	212		ug/L		106	80 - 120
Cobalt	500	525		ug/L		105	80 - 120
Copper	250	260		ug/L		104	80 - 120
Iron	1000	1100		ug/L		110	80 - 120
Lead	100	103		ug/L		103	80 - 120
Magnesium	10000	10800		ug/L		108	80 - 120
Manganese	500	535		ug/L		107	80 - 120
Molybdenum	1000	1000		ug/L		100	80 - 120
Nickel	500	524		ug/L		105	80 - 120
Potassium	10000	10500		ug/L		105	80 - 120
Selenium	100	96.8		ug/L		97	80 - 120
Sodium	10000	10600		ug/L		106	80 - 120
Strontium	1000	976		ug/L		98	80 - 120
Thallium	100	106		ug/L		106	80 - 120
Tin	1000	1020		ug/L		102	80 - 120
Vanadium	500	533		ug/L		107	80 - 120
Zinc	500	513		ug/L		103	80 - 120

Lab Sample ID: LCS 500-792427/2-A
Matrix: Water
Analysis Batch: 793045

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 792427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	1030		ug/L		103	80 - 120
Lithium	100	107		ug/L		107	80 - 120
Silver	50.0	49.8	^1+	ug/L		100	80 - 120

Lab Sample ID: MB 500-792605/1-A
Matrix: Water
Analysis Batch: 793045

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 792605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		10/28/24 08:35	10/29/24 14:56	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-792605/1-A
Matrix: Water
Analysis Batch: 793045

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 792605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		3.0	1.3	ug/L		10/28/24 08:35	10/29/24 14:56	1
Arsenic	<0.23		1.0	0.23	ug/L		10/28/24 08:35	10/29/24 14:56	1
Barium	<0.73		2.5	0.73	ug/L		10/28/24 08:35	10/29/24 14:56	1
Beryllium	<0.53		1.0	0.53	ug/L		10/28/24 08:35	10/29/24 14:56	1
Cadmium	<0.17		0.50	0.17	ug/L		10/28/24 08:35	10/29/24 14:56	1
Chromium	<1.1		5.0	1.1	ug/L		10/28/24 08:35	10/29/24 14:56	1
Cobalt	<0.40		1.0	0.40	ug/L		10/28/24 08:35	10/29/24 14:56	1
Copper	<0.50		2.0	0.50	ug/L		10/28/24 08:35	10/29/24 14:56	1
Iron	<47		100	47	ug/L		10/28/24 08:35	10/29/24 14:56	1
Lead	<0.19		0.50	0.19	ug/L		10/28/24 08:35	10/29/24 14:56	1
Lithium	<2.5		10	2.5	ug/L		10/28/24 08:35	10/29/24 14:56	1
Magnesium	<49		200	49	ug/L		10/28/24 08:35	10/29/24 14:56	1
Manganese	<0.79		2.5	0.79	ug/L		10/28/24 08:35	10/29/24 14:56	1
Molybdenum	<2.5		5.0	2.5	ug/L		10/28/24 08:35	10/29/24 14:56	1
Nickel	<0.63		2.0	0.63	ug/L		10/28/24 08:35	10/29/24 14:56	1
Potassium	<110		500	110	ug/L		10/28/24 08:35	10/29/24 14:56	1
Selenium	<0.98		2.5	0.98	ug/L		10/28/24 08:35	10/29/24 14:56	1
Silver	<0.12	^1+	0.50	0.12	ug/L		10/28/24 08:35	10/29/24 14:56	1
Sodium	<77		200	77	ug/L		10/28/24 08:35	10/29/24 14:56	1
Strontium	<0.64		4.0	0.64	ug/L		10/28/24 08:35	10/29/24 14:56	1
Thallium	<0.57		2.0	0.57	ug/L		10/28/24 08:35	10/29/24 14:56	1
Tin	<1.3		5.0	1.3	ug/L		10/28/24 08:35	10/29/24 14:56	1
Vanadium	<2.2		5.0	2.2	ug/L		10/28/24 08:35	10/29/24 14:56	1
Zinc	<6.9		20	6.9	ug/L		10/28/24 08:35	10/29/24 14:56	1

Lab Sample ID: MB 500-792605/1-A
Matrix: Water
Analysis Batch: 793150

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 792605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<13		50	13	ug/L		10/28/24 08:35	10/30/24 12:24	1
Calcium	<44		200	44	ug/L		10/28/24 08:35	10/30/24 12:24	1

Lab Sample ID: LCS 500-792605/2-A
Matrix: Water
Analysis Batch: 793045

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 792605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1840		ug/L		92	80 - 120
Antimony	500	495		ug/L		99	80 - 120
Arsenic	100	98.4		ug/L		98	80 - 120
Barium	500	513		ug/L		103	80 - 120
Beryllium	50.0	48.1		ug/L		96	80 - 120
Cadmium	50.0	48.4		ug/L		97	80 - 120
Chromium	200	196		ug/L		98	80 - 120
Cobalt	500	481		ug/L		96	80 - 120
Copper	250	237		ug/L		95	80 - 120
Iron	1000	1020		ug/L		102	80 - 120
Lead	100	96.0		ug/L		96	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-792605/2-A
Matrix: Water
Analysis Batch: 793045

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 792605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	100	96.2		ug/L		96	80 - 120
Magnesium	10000	9930		ug/L		99	80 - 120
Manganese	500	493		ug/L		99	80 - 120
Molybdenum	1000	936		ug/L		94	80 - 120
Nickel	500	472		ug/L		94	80 - 120
Potassium	10000	10000		ug/L		100	80 - 120
Selenium	100	95.7		ug/L		96	80 - 120
Silver	50.0	48.5	^1+	ug/L		97	80 - 120
Sodium	10000	9830		ug/L		98	80 - 120
Strontium	1000	964		ug/L		96	80 - 120
Thallium	100	97.0		ug/L		97	80 - 120
Tin	1000	950		ug/L		95	80 - 120
Vanadium	500	493		ug/L		99	80 - 120
Zinc	500	480		ug/L		96	80 - 120

Lab Sample ID: LCS 500-792605/2-A
Matrix: Water
Analysis Batch: 793150

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 792605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	998		ug/L		100	80 - 120
Calcium	10000	9510		ug/L		95	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-789763/3
Matrix: Water
Analysis Batch: 789763

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			10/09/24 11:11	1
Chloride	0.217	J	1.0	0.12	mg/L			10/09/24 11:11	1
Fluoride	<0.19		1.0	0.19	mg/L			10/09/24 11:11	1
Sulfate	<0.21		1.0	0.21	mg/L			10/09/24 11:11	1

Lab Sample ID: LCS 500-789763/4
Matrix: Water
Analysis Batch: 789763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.1		mg/L		96	90 - 110
Chloride	20.0	19.3		mg/L		97	90 - 110
Fluoride	20.0	20.3		mg/L		101	90 - 110
Sulfate	20.0	20.8		mg/L		104	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-258104-13 MS
Matrix: Water
Analysis Batch: 789763

Client Sample ID: MW-42_20241007
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	<0.18		10.0	9.70		mg/L		97	80 - 120
Chloride	1.1	B	10.0	10.6		mg/L		95	80 - 120
Fluoride	1.2		10.0	11.4		mg/L		102	80 - 120
Sulfate	13		10.0	23.5		mg/L		100	80 - 120

Lab Sample ID: 500-258104-13 MSD
Matrix: Water
Analysis Batch: 789763

Client Sample ID: MW-42_20241007
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	<0.18		10.0	9.48		mg/L		95	80 - 120	2	20
Chloride	1.1	B	10.0	10.4		mg/L		93	80 - 120	2	20
Fluoride	1.2		10.0	11.1		mg/L		100	80 - 120	2	20
Sulfate	13		10.0	23.1		mg/L		96	80 - 120	2	20

Lab Sample ID: MB 500-789764/3
Matrix: Water
Analysis Batch: 789764

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			10/09/24 11:11	1
Nitrite as N	<0.070		1.0	0.070	mg/L			10/09/24 11:11	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			10/09/24 11:11	1

Lab Sample ID: LCS 500-789764/4
Matrix: Water
Analysis Batch: 789764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	18.5		mg/L		92	90 - 110
Nitrite as N	20.0	20.0		mg/L		100	90 - 110
Nitrate Nitrite as N	40.0	38.5		mg/L		96	90 - 110

Lab Sample ID: 500-258104-13 MS
Matrix: Water
Analysis Batch: 789764

Client Sample ID: MW-42_20241007
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.46	J	10.0	9.22		mg/L		88	80 - 120
Nitrite as N	<0.070		10.0	10.2		mg/L		102	80 - 120
Nitrate Nitrite as N	0.46	J	20.0	19.4		mg/L		95	80 - 120

Lab Sample ID: 500-258104-13 MSD
Matrix: Water
Analysis Batch: 789764

Client Sample ID: MW-42_20241007
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.46	J	10.0	8.95		mg/L		85	80 - 120	3	20
Nitrite as N	<0.070		10.0	9.88		mg/L		99	80 - 120	3	20
Nitrate Nitrite as N	0.46	J	20.0	18.8		mg/L		92	80 - 120	3	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-789940/3
Matrix: Water
Analysis Batch: 789940

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.18		1.0	0.18	mg/L			10/10/24 09:58	1
Chloride	0.239	J	1.0	0.12	mg/L			10/10/24 09:58	1
Fluoride	<0.19		1.0	0.19	mg/L			10/10/24 09:58	1
Sulfate	<0.21		1.0	0.21	mg/L			10/10/24 09:58	1

Lab Sample ID: LCS 500-789940/4
Matrix: Water
Analysis Batch: 789940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			20.0	18.8		mg/L		94	90 - 110		
Chloride			20.0	18.8		mg/L		94	90 - 110		
Fluoride			20.0	20.5		mg/L		103	90 - 110		
Sulfate			20.0	20.5		mg/L		102	90 - 110		

Lab Sample ID: 500-258104-19 MS
Matrix: Water
Analysis Batch: 789940

Client Sample ID: BNC-01_20241008
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide	<0.18		10.0	9.65		mg/L		96	80 - 120		
Chloride	10	B	10.0	19.5		mg/L		93	80 - 120		
Fluoride	0.48	J	10.0	10.6		mg/L		101	80 - 120		
Sulfate	<0.21		10.0	10.4		mg/L		104	80 - 120		

Lab Sample ID: 500-258104-19 MSD
Matrix: Water
Analysis Batch: 789940

Client Sample ID: BNC-01_20241008
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	<0.18		10.0	9.56		mg/L		96	80 - 120	1	20
Chloride	10	B	10.0	19.3		mg/L		91	80 - 120	1	20
Fluoride	0.48	J	10.0	10.4		mg/L		99	80 - 120	2	20
Sulfate	<0.21		10.0	10.1		mg/L		101	80 - 120	2	20

Lab Sample ID: MB 500-789941/3
Matrix: Water
Analysis Batch: 789941

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			10/10/24 09:58	1
Nitrite as N	<0.070		1.0	0.070	mg/L			10/10/24 09:58	1
Nitrate Nitrite as N	<0.070		1.0	0.070	mg/L			10/10/24 09:58	1

Lab Sample ID: LCS 500-789941/4
Matrix: Water
Analysis Batch: 789941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			20.0	18.2		mg/L		91	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-789941/4
Matrix: Water
Analysis Batch: 789941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	20.0	19.7		mg/L		99	90 - 110
Nitrate Nitrite as N	40.0	37.9		mg/L		95	90 - 110

Lab Sample ID: 500-258104-19 MS
Matrix: Water
Analysis Batch: 789941

Client Sample ID: BNC-01_20241008
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	<0.043		10.0	9.14		mg/L		91	80 - 120
Nitrite as N	<0.070		10.0	9.98		mg/L		100	80 - 120
Nitrate Nitrite as N	<0.070		20.0	19.1		mg/L		96	80 - 120

Lab Sample ID: 500-258104-19 MSD
Matrix: Water
Analysis Batch: 789941

Client Sample ID: BNC-01_20241008
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.043		10.0	8.93		mg/L		89	80 - 120	2	20
Nitrite as N	<0.070		10.0	9.75		mg/L		97	80 - 120	2	20
Nitrate Nitrite as N	<0.070		20.0	18.7		mg/L		93	80 - 120	2	20

Lab Sample ID: MB 500-792271/3
Matrix: Water
Analysis Batch: 792271

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.150	J	1.0	0.12	mg/L			10/25/24 09:24	1

Lab Sample ID: LCS 500-792271/4
Matrix: Water
Analysis Batch: 792271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.3		mg/L		97	90 - 110

Lab Sample ID: MB 500-792703/3
Matrix: Water
Analysis Batch: 792703

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.12		1.0	0.12	mg/L			10/28/24 16:46	1

Lab Sample ID: LCS 500-792703/4
Matrix: Water
Analysis Batch: 792703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	18.9		mg/L		95	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-790946/1-A
Matrix: Water
Analysis Batch: 791024

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 790946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		10/16/24 13:53	10/16/24 15:23	1

Lab Sample ID: LCS 500-790946/2-A
Matrix: Water
Analysis Batch: 791024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 790946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0990		mg/L		99	90 - 110

Lab Sample ID: 500-258104-1 MS
Matrix: Water
Analysis Batch: 791024

Client Sample ID: MW-38_20241007
Prep Type: Total/NA
Prep Batch: 790946

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.0036		0.100	0.103		mg/L		103	90 - 110

Lab Sample ID: 500-258104-1 MSD
Matrix: Water
Analysis Batch: 791024

Client Sample ID: MW-38_20241007
Prep Type: Total/NA
Prep Batch: 790946

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.0036		0.100	0.104		mg/L		104	90 - 110	1	20

Lab Sample ID: MB 500-791350/1-A
Matrix: Water
Analysis Batch: 791450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 791350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		10/18/24 10:47	10/18/24 13:24	1

Lab Sample ID: LCS 500-791350/2-A
Matrix: Water
Analysis Batch: 791450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 791350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0900		mg/L		90	90 - 110

Lab Sample ID: 500-258104-7 MS
Matrix: Water
Analysis Batch: 791450

Client Sample ID: FB-01-GW_20241007
Prep Type: Total/NA
Prep Batch: 791350

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.0036		0.100	0.101		mg/L		101	90 - 110

Lab Sample ID: 500-258104-7 MSD
Matrix: Water
Analysis Batch: 791450

Client Sample ID: FB-01-GW_20241007
Prep Type: Total/NA
Prep Batch: 791350

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.0036		0.100	0.100		mg/L		100	90 - 110	1	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-792813/1-A
Matrix: Water
Analysis Batch: 793360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		10/29/24 10:57	10/31/24 14:05	1

Lab Sample ID: LCS 500-792813/2-A
Matrix: Water
Analysis Batch: 793360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.00		mg/L		100	90 - 110

Lab Sample ID: MB 500-792898/1-A
Matrix: Water
Analysis Batch: 793360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		10/29/24 15:20	10/31/24 14:17	1

Lab Sample ID: LCS 500-792898/2-A
Matrix: Water
Analysis Batch: 793360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.92		mg/L		96	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-791606/1-A
Matrix: Water
Analysis Batch: 792014

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 791606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		10/21/24 10:00	10/23/24 12:12	1

Lab Sample ID: LCS 500-791606/2-A
Matrix: Water
Analysis Batch: 792014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 791606

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.932		mg/L		93	88 - 123

Lab Sample ID: MB 500-793744/1-A
Matrix: Water
Analysis Batch: 794180

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 793744

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		11/04/24 11:20	11/05/24 14:20	1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCS 500-793744/2-A
Matrix: Water
Analysis Batch: 794180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 793744

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phosphorus as P			1.00	0.886		mg/L		89	88 - 123		

Lab Sample ID: 500-258104-19 MS
Matrix: Water
Analysis Batch: 794180

Client Sample ID: BNC-01_20241008
Prep Type: Total/NA
Prep Batch: 793744

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Phosphorus as P	<0.024		1.00	0.921		mg/L		92	75 - 125		

Lab Sample ID: 500-258104-19 MSD
Matrix: Water
Analysis Batch: 794180

Client Sample ID: BNC-01_20241008
Prep Type: Total/NA
Prep Batch: 793744

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phosphorus as P	<0.024		1.00	0.921		mg/L		92	75 - 125	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-791279/3
Matrix: Water
Analysis Batch: 791279

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			10/17/24 11:25	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/17/24 11:25	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/17/24 11:25	1

Lab Sample ID: LCS 500-791279/4
Matrix: Water
Analysis Batch: 791279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			100	108		mg/L		108	95 - 121		

Lab Sample ID: 500-258104-1 DU
Matrix: Water
Analysis Batch: 791279

Client Sample ID: MW-38_20241007
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	220			218		mg/L				2	20
Bicarbonate Alkalinity as CaCO3	220			218		mg/L				2	20
Carbonate Alkalinity as CaCO3	<3.7			<3.7		mg/L				NC	20

Lab Sample ID: MB 500-791737/28
Matrix: Water
Analysis Batch: 791737

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	4.33	J	5.0	3.7	mg/L			10/21/24 14:50	1
Bicarbonate Alkalinity as CaCO3	4.33	J	5.0	3.7	mg/L			10/21/24 14:50	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 500-791737/28
Matrix: Water
Analysis Batch: 791737

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/21/24 14:50	1

Lab Sample ID: LCS 500-791737/29
Matrix: Water
Analysis Batch: 791737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			100	96.9		mg/L		97	95 - 121		

Lab Sample ID: 500-258104-15 DU
Matrix: Water
Analysis Batch: 791737

Client Sample ID: TBS-01_20241008
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	54	B		50.5		mg/L				7	20
Bicarbonate Alkalinity as CaCO3	54	B		50.5		mg/L				7	20
Carbonate Alkalinity as CaCO3	<3.7			<3.7		mg/L				NC	20

Lab Sample ID: MB 500-791946/3
Matrix: Water
Analysis Batch: 791946

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			10/22/24 14:05	1
Bicarbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/22/24 14:05	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			10/22/24 14:05	1

Lab Sample ID: LCS 500-791946/4
Matrix: Water
Analysis Batch: 791946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			100	97.0		mg/L		97	95 - 121		

Method: SM 2520B - Salinity

Lab Sample ID: 500-258104-11 DU
Matrix: Water
Analysis Batch: 792801

Client Sample ID: LKS-02_20241007
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Salinity	<0.33			<0.33		psu				NC	

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-790410/1
Matrix: Water
Analysis Batch: 790410

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			10/13/24 21:49	1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 500-790410/2
Matrix: Water
Analysis Batch: 790410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	246		mg/L		98	80 - 120

Lab Sample ID: MB 500-790411/1
Matrix: Water
Analysis Batch: 790411

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			10/13/24 23:28	1

Lab Sample ID: LCS 500-790411/2
Matrix: Water
Analysis Batch: 790411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	268		mg/L		107	80 - 120

Lab Sample ID: MB 500-790608/1
Matrix: Water
Analysis Batch: 790608

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			10/14/24 23:37	1

Lab Sample ID: LCS 500-790608/2
Matrix: Water
Analysis Batch: 790608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	254		mg/L		102	80 - 120

Lab Sample ID: MB 500-790609/1
Matrix: Water
Analysis Batch: 790609

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			10/15/24 01:14	1

Lab Sample ID: LCS 500-790609/2
Matrix: Water
Analysis Batch: 790609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	244		mg/L		98	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-790257/1
Matrix: Water
Analysis Batch: 790257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			10/11/24 16:10	1

Lab Sample ID: LCS 500-790257/2
Matrix: Water
Analysis Batch: 790257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	170		mg/L		85	80 - 120

Lab Sample ID: 500-258104-7 MS
Matrix: Water
Analysis Batch: 790257

Client Sample ID: FB-01-GW_20241007
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	<1.9		100	116		mg/L		116	75 - 125

Lab Sample ID: 500-258104-7 DU
Matrix: Water
Analysis Batch: 790257

Client Sample ID: FB-01-GW_20241007
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	<1.9		<1.9		mg/L		NC	5

Lab Sample ID: MB 500-790551/1
Matrix: Water
Analysis Batch: 790551

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			10/14/24 13:40	1

Lab Sample ID: LCS 500-790551/2
Matrix: Water
Analysis Batch: 790551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	185		mg/L		93	80 - 120

Lab Sample ID: MB 500-790582/1
Matrix: Water
Analysis Batch: 790582

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			10/14/24 15:48	1

Lab Sample ID: LCS 500-790582/2
Matrix: Water
Analysis Batch: 790582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	204		mg/L		102	80 - 120

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-790104/1
Matrix: Water
Analysis Batch: 790104

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			10/10/24 23:31	1

Lab Sample ID: LCS 500-790104/2
Matrix: Water
Analysis Batch: 790104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.76	3.74		mg/L		100	85 - 115

Lab Sample ID: MB 500-790607/1
Matrix: Water
Analysis Batch: 790607

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			10/14/24 22:06	1

Lab Sample ID: LCS 500-790607/2
Matrix: Water
Analysis Batch: 790607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.76	3.95		mg/L		105	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-791784/31
Matrix: Water
Analysis Batch: 791784

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			10/22/24 00:59	1

Lab Sample ID: MB 500-791784/7
Matrix: Water
Analysis Batch: 791784

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			10/21/24 13:47	1

Lab Sample ID: LCS 500-791784/32
Matrix: Water
Analysis Batch: 791784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.3		mg/L		103	86 - 116

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 500-791784/8
Matrix: Water
Analysis Batch: 791784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			10.0	10.1		mg/L		101	86 - 116		

Lab Sample ID: 500-258104-19 MS
Matrix: Water
Analysis Batch: 791784

Client Sample ID: BNC-01_20241008
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon	7.9		10.0	18.5		mg/L		105	75 - 125		

Lab Sample ID: 500-258104-19 MSD
Matrix: Water
Analysis Batch: 791784

Client Sample ID: BNC-01_20241008
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	7.9		10.0	18.7		mg/L		107	75 - 125	1	20

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-791790/7
Matrix: Water
Analysis Batch: 791790

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			10/22/24 11:16	1

Lab Sample ID: LCS 500-791790/8
Matrix: Water
Analysis Batch: 791790

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Dissolved Organic Carbon			10.0	10.1		mg/L		101	86 - 116		

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-38_20241007

Date Collected: 10/07/24 10:20
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3090	JS	EET SSM	10/22/24 11:10
Dissolved	Analysis	1630		1	3111	JS	EET SSM	10/22/24 21:08
Total/NA	Prep	1630			3090	JS	EET SSM	10/22/24 11:10
Total/NA	Analysis	1630		1	3111	JS	EET SSM	10/22/24 20:58
Dissolved	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 15:40
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 15:36
Dissolved	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Dissolved	Analysis	1638		1	3084	CL	EET SSM	10/18/24 15:54
Total Recoverable	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Total Recoverable	Analysis	1638		1	3084	CL	EET SSM	10/18/24 16:51
Dissolved	Prep	3005A			792427	S1Z	EET CHI	10/25/24 15:15 - 10/25/24 21:15 [1]
Dissolved	Analysis	6020B		1	792811	RN	EET CHI	10/28/24 17:16
Dissolved	Prep	3005A			792427	S1Z	EET CHI	10/25/24 15:15 - 10/25/24 21:15 [1]
Dissolved	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 12:15
Total Recoverable	Prep	3005A			792427	S1Z	EET CHI	10/25/24 15:15 - 10/25/24 21:15 [1]
Total Recoverable	Analysis	6020B		1	792811	RN	EET CHI	10/28/24 17:09
Total Recoverable	Prep	3005A			792427	S1Z	EET CHI	10/25/24 15:15 - 10/25/24 21:15 [1]
Total Recoverable	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 12:06
Total Recoverable	Prep	3005A			792427	S1Z	EET CHI	10/25/24 15:15 - 10/25/24 21:15 [1]
Total Recoverable	Analysis	SM 2340B		1	792863	DAJ	EET CHI	10/29/24 10:49
Total/NA	Analysis	300.0		1	789763	W1T	EET CHI	10/09/24 13:28
Total/NA	Analysis	300.0		1	789764	W1T	EET CHI	10/09/24 13:28
Total/NA	Prep	Distill/CN			790946	AC	EET CHI	10/16/24 13:53 - 10/16/24 14:23 [1]
Total/NA	Analysis	335.4		1	791024	AC	EET CHI	10/16/24 15:27
Total/NA	Prep	Distill/Ammonia			792813	EB	EET CHI	10/29/24 10:57 - 10/29/24 11:57 [1]
Total/NA	Analysis	350.1		1	793360	KF	EET CHI	10/31/24 14:06
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:19
Total/NA	Analysis	SM 2320B		1	791279	SO	EET CHI	10/17/24 13:23
Total/NA	Analysis	SM 2520B		1	792801	TR	EET CHI	10/29/24 08:11
Total/NA	Analysis	SM 2540C		1	790410	CLB	EET CHI	10/13/24 22:48
Total/NA	Analysis	SM 2540D		1	790257	SO	EET CHI	10/11/24 16:12 - 10/11/24 16:14 [1]
Total/NA	Analysis	SM 4500 S2 F		1	790104	CLB	EET CHI	10/11/24 00:23 - 10/11/24 00:26 [1]
Dissolved	Analysis	SM 5310C		1	791790	TR	EET CHI	10/22/24 11:16
Total/NA	Analysis	SM 5310C		1	791784	TR	EET CHI	10/21/24 21:15

Client Sample ID: MW-38_20241007_FBLL

Date Collected: 10/07/24 10:20
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 15:45

Client Sample ID: TBN-01_20241007

Lab Sample ID: 500-258104-3

Date Collected: 10/07/24 15:30

Matrix: Water

Date Received: 10/09/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3090	JS	EET SSM	10/22/24 11:10
Dissolved	Analysis	1630		1	3111	JS	EET SSM	10/22/24 21:29
Total/NA	Prep	1630			3090	JS	EET SSM	10/22/24 11:10
Total/NA	Analysis	1630		1	3111	JS	EET SSM	10/22/24 21:19
Dissolved	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 15:53
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 15:49
Dissolved	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Dissolved	Analysis	1638		1	3084	CL	EET SSM	10/18/24 16:23
Total Recoverable	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Total Recoverable	Analysis	1638		1	3084	CL	EET SSM	10/18/24 16:54
Dissolved	Prep	3005A			792427	S1Z	EET CHI	10/25/24 15:15 - 10/25/24 21:15 ¹
Dissolved	Analysis	6020B		1	792811	RN	EET CHI	10/28/24 17:18
Dissolved	Prep	3005A			792427	S1Z	EET CHI	10/25/24 15:15 - 10/25/24 21:15 ¹
Dissolved	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 12:18
Total Recoverable	Prep	3005A			792427	S1Z	EET CHI	10/25/24 15:15 - 10/25/24 21:15 ¹
Total Recoverable	Analysis	6020B		1	792811	RN	EET CHI	10/28/24 17:11
Total Recoverable	Prep	3005A			792427	S1Z	EET CHI	10/25/24 15:15 - 10/25/24 21:15 ¹
Total Recoverable	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 12:13
Total Recoverable	Prep	3005A			792427	S1Z	EET CHI	10/25/24 15:15 - 10/25/24 21:15 ¹
Total Recoverable	Analysis	SM 2340B		1	792863	DAJ	EET CHI	10/29/24 10:49
Total/NA	Analysis	300.0		1	789763	W1T	EET CHI	10/09/24 12:12
Total/NA	Analysis	300.0		1	789764	W1T	EET CHI	10/09/24 12:12
Total/NA	Analysis	300.0		10	792271	MM	EET CHI	10/25/24 16:11
Total/NA	Prep	Distill/CN			791350	AC	EET CHI	10/18/24 10:47 - 10/18/24 11:17 ¹
Total/NA	Analysis	335.4		1	791450	AC	EET CHI	10/18/24 13:27
Total/NA	Prep	Distill/Ammonia			792813	EB	EET CHI	10/29/24 10:57 - 10/29/24 11:57 ¹
Total/NA	Analysis	350.1		1	793360	KF	EET CHI	10/31/24 14:07
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 ¹
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:19
Total/NA	Analysis	SM 2320B		1	791279	SO	EET CHI	10/17/24 13:49
Total/NA	Analysis	SM 2520B		1	792801	TR	EET CHI	10/29/24 08:11
Total/NA	Analysis	SM 2540C		1	790411	CLB	EET CHI	10/13/24 23:33
Total/NA	Analysis	SM 2540D		1	790257	SO	EET CHI	10/11/24 16:14 - 10/11/24 16:15 ¹
Total/NA	Analysis	SM 4500 S2 F		1	790104	CLB	EET CHI	10/11/24 00:26 - 10/11/24 00:29 ¹
Dissolved	Analysis	SM 5310C		1	791790	TR	EET CHI	10/22/24 11:16
Total/NA	Analysis	SM 5310C		1	791784	TR	EET CHI	10/21/24 21:43

Client Sample ID: TBN-01_20241007_FBLL

Lab Sample ID: 500-258104-4

Date Collected: 10/07/24 15:30

Matrix: Water

Date Received: 10/09/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 16:05

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: LKS-01_20241007

Lab Sample ID: 500-258104-5

Date Collected: 10/07/24 15:00

Matrix: Water

Date Received: 10/09/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3090	JS	EET SSM	10/22/24 11:10
Dissolved	Analysis	1630		1	3111	JS	EET SSM	10/22/24 21:49
Total/NA	Prep	1630			3090	JS	EET SSM	10/22/24 11:10
Total/NA	Analysis	1630		1	3111	JS	EET SSM	10/22/24 21:39
Dissolved	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 16:14
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 16:09
Dissolved	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Dissolved	Analysis	1638		1	3084	CL	EET SSM	10/18/24 16:26
Total Recoverable	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Total Recoverable	Analysis	1638		1	3084	CL	EET SSM	10/18/24 17:05
Dissolved	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Dissolved	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 15:29
Dissolved	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Dissolved	Analysis	6020B		1	793150	RN	EET CHI	10/30/24 12:33
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 15:27
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	6020B		1	793150	RN	EET CHI	10/30/24 12:31
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	SM 2340B		1	792863	DAJ	EET CHI	10/30/24 10:05
Total/NA	Analysis	300.0		1	789763	W1T	EET CHI	10/09/24 12:27
Total/NA	Analysis	300.0		1	789764	W1T	EET CHI	10/09/24 12:27
Total/NA	Prep	Distill/CN			791350	AC	EET CHI	10/18/24 10:47 - 10/18/24 11:17 [1]
Total/NA	Analysis	335.4		1	791450	AC	EET CHI	10/18/24 13:28
Total/NA	Prep	Distill/Ammonia			792813	EB	EET CHI	10/29/24 10:57 - 10/29/24 11:57 [1]
Total/NA	Analysis	350.1		1	793360	KF	EET CHI	10/31/24 14:07
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:20
Total/NA	Analysis	SM 2320B		1	791279	SO	EET CHI	10/17/24 14:00
Total/NA	Analysis	SM 2520B		1	792801	TR	EET CHI	10/29/24 08:11
Total/NA	Analysis	SM 2540C		1	790411	CLB	EET CHI	10/13/24 23:35
Total/NA	Analysis	SM 2540D		1	790257	SO	EET CHI	10/11/24 16:15 - 10/11/24 16:17 [1]
Total/NA	Analysis	SM 4500 S2 F		1	790104	CLB	EET CHI	10/11/24 00:29 - 10/11/24 00:32 [1]
Dissolved	Analysis	SM 5310C		1	791790	TR	EET CHI	10/22/24 11:16
Total/NA	Analysis	SM 5310C		1	791784	TR	EET CHI	10/21/24 22:11

Client Sample ID: LKS-01_20241007_FBLL

Lab Sample ID: 500-258104-6

Date Collected: 10/07/24 15:00

Matrix: Water

Date Received: 10/09/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 16:18

Client Sample ID: FB-01-GW_20241007

Lab Sample ID: 500-258104-7

Date Collected: 10/07/24 12:45

Matrix: Water

Date Received: 10/09/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1630			3090	JS	EET SSM	10/22/24 11:10
Total/NA	Analysis	1630		1	3111	JS	EET SSM	10/22/24 21:59
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 16:22
Total Recoverable	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Total Recoverable	Analysis	1638		1	3084	CL	EET SSM	10/18/24 16:05
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 15:31
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	6020B		1	793150	RN	EET CHI	10/30/24 12:35
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	SM 2340B		1	792863	DAJ	EET CHI	10/30/24 10:05
Total/NA	Analysis	300.0		1	789763	W1T	EET CHI	10/09/24 11:41
Total/NA	Analysis	300.0		1	789764	W1T	EET CHI	10/09/24 11:41
Total/NA	Prep	Distill/CN			791350	AC	EET CHI	10/18/24 10:47 - 10/18/24 11:17 [1]
Total/NA	Analysis	335.4		1	791450	AC	EET CHI	10/18/24 13:28
Total/NA	Prep	Distill/Ammonia			792898	EB	EET CHI	10/29/24 15:20 - 10/29/24 16:20 [1]
Total/NA	Analysis	350.1		1	793360	KF	EET CHI	10/31/24 14:18
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:21
Total/NA	Analysis	SM 2320B		1	791279	SO	EET CHI	10/17/24 14:08
Total/NA	Analysis	SM 2520B		1	792801	TR	EET CHI	10/29/24 08:11
Total/NA	Analysis	SM 2540C		1	790411	CLB	EET CHI	10/13/24 23:38
Total/NA	Analysis	SM 2540D		1	790257	SO	EET CHI	10/11/24 16:17 - 10/11/24 16:18 [1]
Total/NA	Analysis	SM 4500 S2 F		1	790104	CLB	EET CHI	10/11/24 00:32 - 10/11/24 00:36 [1]
Total/NA	Analysis	SM 5310C		1	791784	TR	EET CHI	10/21/24 22:39

Client Sample ID: FB-01-GW_20241007_FBLL

Lab Sample ID: 500-258104-8

Date Collected: 10/07/24 12:45

Matrix: Water

Date Received: 10/09/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 16:26

Client Sample ID: MW-31_20241007

Lab Sample ID: 500-258104-9

Date Collected: 10/07/24 11:05

Matrix: Water

Date Received: 10/09/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3090	JS	EET SSM	10/22/24 11:10
Dissolved	Analysis	1630		1	3111	JS	EET SSM	10/22/24 22:20
Total/NA	Prep	1630			3090	JS	EET SSM	10/22/24 11:10
Total/NA	Analysis	1630		1	3111	JS	EET SSM	10/22/24 22:10
Dissolved	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 16:34
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 16:30

Client Sample ID: MW-31_20241007

Lab Sample ID: 500-258104-9

Date Collected: 10/07/24 11:05

Matrix: Water

Date Received: 10/09/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Dissolved	Analysis	1638		1	3084	CL	EET SSM	10/18/24 16:30
Total Recoverable	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Total Recoverable	Analysis	1638		1	3084	CL	EET SSM	10/18/24 17:08
Dissolved	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Dissolved	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 15:36
Dissolved	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Dissolved	Analysis	6020B		1	793150	RN	EET CHI	10/30/24 12:40
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 15:34
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	6020B		1	793150	RN	EET CHI	10/30/24 12:38
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	SM 2340B		1	792863	DAJ	EET CHI	10/30/24 10:05
Total/NA	Analysis	300.0		1	789763	W1T	EET CHI	10/09/24 14:13
Total/NA	Analysis	300.0		1	789764	W1T	EET CHI	10/09/24 14:13
Total/NA	Prep	Distill/CN			791350	AC	EET CHI	10/18/24 10:47 - 10/18/24 11:17 [1]
Total/NA	Analysis	335.4		1	791450	AC	EET CHI	10/18/24 13:31
Total/NA	Prep	Distill/Ammonia			792898	EB	EET CHI	10/29/24 15:20 - 10/29/24 16:20 [1]
Total/NA	Analysis	350.1		1	793360	KF	EET CHI	10/31/24 14:18
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:21
Total/NA	Analysis	SM 2320B		1	791279	SO	EET CHI	10/17/24 14:11
Total/NA	Analysis	SM 2520B		1	792801	TR	EET CHI	10/29/24 08:11
Total/NA	Analysis	SM 2540C		1	790411	CLB	EET CHI	10/13/24 23:40
Total/NA	Analysis	SM 2540D		1	790257	SO	EET CHI	10/11/24 16:21 - 10/11/24 16:22 [1]
Total/NA	Analysis	SM 4500 S2 F		1	790104	CLB	EET CHI	10/11/24 00:36 - 10/11/24 00:39 [1]
Dissolved	Analysis	SM 5310C		1	791790	TR	EET CHI	10/22/24 11:16
Total/NA	Analysis	SM 5310C		1	791784	TR	EET CHI	10/21/24 23:07

Client Sample ID: MW-31_20241007_FBLL

Lab Sample ID: 500-258104-10

Date Collected: 10/07/24 11:05

Matrix: Water

Date Received: 10/09/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 16:38

Client Sample ID: LKS-02_20241007

Lab Sample ID: 500-258104-11

Date Collected: 10/07/24 13:30

Matrix: Water

Date Received: 10/09/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3150	AJD	EET SSM	10/29/24 11:58
Dissolved	Analysis	1630		1	3168	COW	EET SSM	10/29/24 21:58

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: LKS-02_20241007

Lab Sample ID: 500-258104-11

Date Collected: 10/07/24 13:30

Matrix: Water

Date Received: 10/09/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1630			3169	AJD	EET SSM	10/31/24 08:54
Total/NA	Analysis	1630		1	3200	CL	EET SSM	10/31/24 19:24
Dissolved	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 16:55
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 16:43
Dissolved	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Dissolved	Analysis	1638		1	3084	CL	EET SSM	10/18/24 16:33
Total Recoverable	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Total Recoverable	Analysis	1638		1	3084	CL	EET SSM	10/18/24 17:12
Dissolved	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Dissolved	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 15:41
Dissolved	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Dissolved	Analysis	6020B		1	793150	RN	EET CHI	10/30/24 12:45
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 15:38
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	6020B		1	793150	RN	EET CHI	10/30/24 12:42
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	SM 2340B		1	792863	DAJ	EET CHI	10/30/24 10:05
Total/NA	Analysis	300.0		1	789763	W1T	EET CHI	10/09/24 11:57
Total/NA	Analysis	300.0		1	789764	W1T	EET CHI	10/09/24 11:57
Total/NA	Prep	Distill/CN			791350	AC	EET CHI	10/18/24 10:47 - 10/18/24 11:17 [1]
Total/NA	Analysis	335.4		1	791450	AC	EET CHI	10/18/24 13:32
Total/NA	Prep	Distill/Ammonia			792898	EB	EET CHI	10/29/24 15:20 - 10/29/24 16:20 [1]
Total/NA	Analysis	350.1		1	793360	KF	EET CHI	10/31/24 14:19
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:22
Total/NA	Analysis	SM 2320B		1	791279	SO	EET CHI	10/17/24 14:22
Total/NA	Analysis	SM 2520B		1	792801	TR	EET CHI	10/29/24 08:11
Total/NA	Analysis	SM 2540C		1	790411	CLB	EET CHI	10/13/24 23:43
Total/NA	Analysis	SM 2540D		1	790257	SO	EET CHI	10/11/24 16:22 - 10/11/24 16:24 [1]
Total/NA	Analysis	SM 4500 S2 F		1	790607	CLB	EET CHI	10/14/24 22:14 - 10/14/24 22:18 [1]
Dissolved	Analysis	SM 5310C		1	791790	TR	EET CHI	10/22/24 11:16
Total/NA	Analysis	SM 5310C		1	791784	TR	EET CHI	10/21/24 23:35

Client Sample ID: LKS-02_20241007_FBLL

Lab Sample ID: 500-258104-12

Date Collected: 10/07/24 13:30

Matrix: Water

Date Received: 10/09/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 16:59

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: MW-42_20241007

Date Collected: 10/07/24 14:00
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3150	AJD	EET SSM	10/29/24 11:58
Dissolved	Analysis	1630		1	3168	COW	EET SSM	10/29/24 22:18
Total/NA	Prep	1630			3150	AJD	EET SSM	10/29/24 11:58
Total/NA	Analysis	1630		1	3168	COW	EET SSM	10/29/24 22:08
Dissolved	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 17:07
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 17:03
Dissolved	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Dissolved	Analysis	1638		1	3084	CL	EET SSM	10/18/24 16:37
Total Recoverable	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Total Recoverable	Analysis	1638		1	3084	CL	EET SSM	10/18/24 17:15
Dissolved	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Dissolved	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 15:45
Dissolved	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Dissolved	Analysis	6020B		1	793150	RN	EET CHI	10/30/24 12:54
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 15:43
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	6020B		1	793150	RN	EET CHI	10/30/24 12:52
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	SM 2340B		1	792863	DAJ	EET CHI	10/30/24 10:05
Total/NA	Analysis	300.0		1	789763	W1T	EET CHI	10/09/24 12:42
Total/NA	Analysis	300.0		1	789764	W1T	EET CHI	10/09/24 12:42
Total/NA	Prep	Distill/CN			791350	AC	EET CHI	10/18/24 10:47 - 10/18/24 11:17 [1]
Total/NA	Analysis	335.4		1	791450	AC	EET CHI	10/18/24 13:35
Total/NA	Prep	Distill/Ammonia			792898	EB	EET CHI	10/29/24 15:20 - 10/29/24 16:20 [1]
Total/NA	Analysis	350.1		1	793360	KF	EET CHI	10/31/24 14:19
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:22
Total/NA	Analysis	SM 2320B		1	791279	SO	EET CHI	10/17/24 14:30
Total/NA	Analysis	SM 2520B		1	792801	TR	EET CHI	10/29/24 08:11
Total/NA	Analysis	SM 2540C		1	790411	CLB	EET CHI	10/13/24 23:46
Total/NA	Analysis	SM 2540D		1	790551	SO	EET CHI	10/14/24 14:02 - 10/14/24 14:04 [1]
Total/NA	Analysis	SM 4500 S2 F		1	790607	CLB	EET CHI	10/14/24 22:18 - 10/14/24 22:22 [1]
Dissolved	Analysis	SM 5310C		1	791790	TR	EET CHI	10/22/24 11:16
Total/NA	Analysis	SM 5310C		1	791784	TR	EET CHI	10/22/24 01:55

Client Sample ID: MW-42_20241007_FBLL

Date Collected: 10/07/24 14:00
Date Received: 10/09/24 10:05

Lab Sample ID: 500-258104-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 17:12

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: TBS-01_20241008

Date Collected: 10/08/24 10:00
Date Received: 10/10/24 09:05

Lab Sample ID: 500-258104-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3150	AJD	EET SSM	10/29/24 11:58
Dissolved	Analysis	1630		1	3168	COW	EET SSM	10/29/24 22:39
Total/NA	Prep	1630			3150	AJD	EET SSM	10/29/24 11:58
Total/NA	Analysis	1630		1	3168	COW	EET SSM	10/29/24 22:28
Dissolved	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 17:20
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 17:16
Dissolved	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Dissolved	Analysis	1638		1	3084	CL	EET SSM	10/18/24 16:40
Total Recoverable	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Total Recoverable	Analysis	1638		1	3084	CL	EET SSM	10/18/24 17:19
Dissolved	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 ¹
Dissolved	Analysis	6020B		1	793227	RN	EET CHI	10/30/24 14:36
Dissolved	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 ¹
Dissolved	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 15:55
Dissolved	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 ¹
Dissolved	Analysis	6020B		1	793150	RN	EET CHI	10/30/24 12:59
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 ¹
Total Recoverable	Analysis	6020B		1	793227	RN	EET CHI	10/30/24 14:32
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 ¹
Total Recoverable	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 15:53
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 ¹
Total Recoverable	Analysis	6020B		1	793150	RN	EET CHI	10/30/24 12:57
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 ¹
Total Recoverable	Analysis	SM 2340B		1	792863	DAJ	EET CHI	10/30/24 10:05
Total/NA	Analysis	300.0		1	789940	W1T	EET CHI	10/10/24 11:29
Total/NA	Analysis	300.0		1	789941	W1T	EET CHI	10/10/24 11:29
Total/NA	Analysis	300.0		10	792703	MM	EET CHI	10/28/24 20:41
Total/NA	Prep	Distill/CN			791350	AC	EET CHI	10/18/24 10:47 - 10/18/24 11:17 ¹
Total/NA	Analysis	335.4		1	791450	AC	EET CHI	10/18/24 13:35
Total/NA	Prep	Distill/Ammonia			792898	EB	EET CHI	10/29/24 15:20 - 10/29/24 16:20 ¹
Total/NA	Analysis	350.1		1	793360	KF	EET CHI	10/31/24 14:20
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 ¹
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:23
Total/NA	Analysis	SM 2320B		1	791737	ER	EET CHI	10/21/24 18:24
Total/NA	Analysis	SM 2520B		1	792801	TR	EET CHI	10/29/24 08:11
Total/NA	Analysis	SM 2540C		1	790608	CLB	EET CHI	10/15/24 00:33
Total/NA	Analysis	SM 2540D		1	790582	SO	EET CHI	10/14/24 15:56 - 10/14/24 15:58 ¹
Total/NA	Analysis	SM 4500 S2 F		1	790607	CLB	EET CHI	10/14/24 22:22 - 10/14/24 22:26 ¹
Dissolved	Analysis	SM 5310C		1	791790	TR	EET CHI	10/22/24 11:16
Total/NA	Analysis	SM 5310C		1	791784	TR	EET CHI	10/22/24 02:24

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: TBS-01_20241008-FBLL

Lab Sample ID: 500-258104-16

Date Collected: 10/08/24 10:00

Matrix: Water

Date Received: 10/10/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 17:24

Client Sample ID: BNW-01_20241008

Lab Sample ID: 500-258104-17

Date Collected: 10/08/24 12:00

Matrix: Water

Date Received: 10/10/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3150	AJD	EET SSM	10/29/24 11:58
Dissolved	Analysis	1630		1	3168	COW	EET SSM	10/29/24 22:59
Total/NA	Prep	1630			3150	AJD	EET SSM	10/29/24 11:58
Total/NA	Analysis	1630		1	3168	COW	EET SSM	10/29/24 22:49
Dissolved	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 17:32
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 17:28
Dissolved	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Dissolved	Analysis	1638		1	3084	CL	EET SSM	10/18/24 16:44
Total Recoverable	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Total Recoverable	Analysis	1638		1	3084	CL	EET SSM	10/18/24 17:22
Dissolved	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Dissolved	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 16:00
Dissolved	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Dissolved	Analysis	6020B		1	793150	RN	EET CHI	10/30/24 13:04
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 15:57
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	6020B		1	793150	RN	EET CHI	10/30/24 13:01
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	SM 2340B		1	792863	DAJ	EET CHI	10/30/24 10:05
Total/NA	Analysis	300.0		1	789940	W1T	EET CHI	10/10/24 10:28
Total/NA	Analysis	300.0		1	789941	W1T	EET CHI	10/10/24 10:28
Total/NA	Prep	Distill/CN			791350	AC	EET CHI	10/18/24 10:47 - 10/18/24 11:17 [1]
Total/NA	Analysis	335.4		1	791450	AC	EET CHI	10/18/24 13:36
Total/NA	Prep	Distill/Ammonia			792898	EB	EET CHI	10/29/24 15:20 - 10/29/24 16:20 [1]
Total/NA	Analysis	350.1		1	793360	KF	EET CHI	10/31/24 14:21
Total/NA	Prep	365.2/365.3/365			791606	ER	EET CHI	10/21/24 10:00 - 10/21/24 14:00 [1]
Total/NA	Analysis	365.1		1	792014	KF	EET CHI	10/23/24 12:23
Total/NA	Analysis	SM 2320B		1	791946	ER	EET CHI	10/22/24 15:51
Total/NA	Analysis	SM 2520B		1	792801	TR	EET CHI	10/29/24 08:11
Total/NA	Analysis	SM 2540C		1	790608	CLB	EET CHI	10/15/24 00:36
Total/NA	Analysis	SM 2540D		1	790582	SO	EET CHI	10/14/24 15:58 - 10/14/24 15:59 [1]
Total/NA	Analysis	SM 4500 S2 F		1	790607	CLB	EET CHI	10/14/24 22:26 - 10/14/24 22:30 [1]
Dissolved	Analysis	SM 5310C		1	791790	TR	EET CHI	10/22/24 11:16
Total/NA	Analysis	SM 5310C		1	791784	TR	EET CHI	10/22/24 02:52

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: BNW-01_20241008-FBLL

Lab Sample ID: 500-258104-18

Date Collected: 10/08/24 12:00

Matrix: Water

Date Received: 10/10/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 17:45

Client Sample ID: BNC-01_20241008

Lab Sample ID: 500-258104-19

Date Collected: 10/08/24 15:30

Matrix: Water

Date Received: 10/10/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3150	AJD	EET SSM	10/29/24 11:58
Dissolved	Analysis	1630		1	3168	COW	EET SSM	10/29/24 23:19
Total/NA	Prep	1630			3150	AJD	EET SSM	10/29/24 11:58
Total/NA	Analysis	1630		1	3168	COW	EET SSM	10/29/24 23:09
Dissolved	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 17:53
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 17:49
Dissolved	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Dissolved	Analysis	1638		1	3084	CL	EET SSM	10/18/24 16:47
Total Recoverable	Prep	1638			3067	V1R	EET SSM	10/18/24 11:00
Total Recoverable	Analysis	1638		1	3084	CL	EET SSM	10/18/24 17:26
Dissolved	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Dissolved	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 16:04
Dissolved	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Dissolved	Analysis	6020B		1	793150	RN	EET CHI	10/30/24 13:08
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	6020B		1	793045	RN	EET CHI	10/29/24 16:02
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	6020B		1	793150	RN	EET CHI	10/30/24 13:06
Total Recoverable	Prep	3005A			792605	BDE	EET CHI	10/28/24 08:35 - 10/28/24 14:35 [1]
Total Recoverable	Analysis	SM 2340B		1	792863	DAJ	EET CHI	10/30/24 10:05
Total/NA	Analysis	300.0		1	789940	W1T	EET CHI	10/10/24 10:43
Total/NA	Analysis	300.0		1	789941	W1T	EET CHI	10/10/24 10:43
Total/NA	Prep	Distill/CN			791350	AC	EET CHI	10/18/24 10:47 - 10/18/24 11:17 [1]
Total/NA	Analysis	335.4		1	791450	AC	EET CHI	10/18/24 13:36
Total/NA	Prep	Distill/Ammonia			792898	EB	EET CHI	10/29/24 15:20 - 10/29/24 16:20 [1]
Total/NA	Analysis	350.1		1	793360	KF	EET CHI	10/31/24 14:21
Total/NA	Prep	365.2/365.3/365			793744	ER	EET CHI	11/04/24 11:20 - 11/04/24 15:20 [1]
Total/NA	Analysis	365.1		1	794180	MB	EET CHI	11/05/24 14:21
Total/NA	Analysis	SM 2320B		1	791946	ER	EET CHI	10/22/24 16:00
Total/NA	Analysis	SM 2520B		1	792801	TR	EET CHI	10/29/24 08:11
Total/NA	Analysis	SM 2540C		1	790609	CLB	EET CHI	10/15/24 01:19
Total/NA	Analysis	SM 2540D		1	790582	SO	EET CHI	10/14/24 15:59 - 10/14/24 16:01 [1]
Total/NA	Analysis	SM 4500 S2 F		1	790607	CLB	EET CHI	10/14/24 22:30 - 10/14/24 22:35 [1]
Dissolved	Analysis	SM 5310C		1	791790	TR	EET CHI	10/22/24 11:16
Total/NA	Analysis	SM 5310C		1	791784	TR	EET CHI	10/22/24 03:20

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Client Sample ID: BNC-01_20241008-FBLL

Lab Sample ID: 500-258104-20

Date Collected: 10/08/24 15:30

Matrix: Water

Date Received: 10/10/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 17:57

Client Sample ID: FB-02_20241008-FBLL

Lab Sample ID: 500-258104-21

Date Collected: 10/08/24 17:30

Matrix: Water

Date Received: 10/10/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3142	COW	EET SSM	10/25/24 18:01

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-258104-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-24 *
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24 *
South Carolina	State	77001003	05-31-25
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-25
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	07-07-25
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-25
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	12-18-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 5742	COC No: 500-127995-50241 42
Client Contact: Amanda Zeidler	Phone: 906 487 7454	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-258104
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

500-258104 COC

Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
1	MW-38_20241007	10 7 24	1020	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
2	MW-38_20241007_FD	10 7 24	1020	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	10.24 / 17 00	MSG		10-8-24 0800	MSG
2		10-8-24 1400	MSG	4145 7025 5742	10-8-24 1400	Fedex
				Stephanie Hermann	101924 1005	EEHA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 2.3+2.2, 1.8+1.7, 2.8+2.7, 1.7+1.6, 1.1+1.0, 3.3+3.2, 2.5+2.4

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 5786	COC No: 500-127995-50241 7
Client Contact: Amanda Zeidler	Phone: 906 487-7454	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-258104
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
3	TBN-01_20241007	10 7 24	15:30	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
4	TBN-01_20241007_FBLL	10 7 24	15:30	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	10 7 24 / 17:00	MSG		10-8-24 0800	MSG
2		10-8-24 1400	MSG	4145 7025 5786	10-8-24 1400	Fedex
3		Date/Time	Company	Received by: Stephanie Hernandez	10/9/24 1005	EETA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 5720	COC No: 500-127995-50241 49
Client Contact: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-258104
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
5 LKS-01_20241007	10-7-24	1500	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
6 LKS-01_20241007_FBLK	10-7-24	1600	G	Water										X						2	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	
			G	Water																	

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	10-8-24 1400	MSC	4145 7025 5720	10-8-24 1408	Fedex
2				Stephanie Hemandez	10/9/24 1005	EEIA
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 5731	COC No: 500-127995-50241 1
Client Contact: Amanda Zeidler	Phone: 906 487 7454	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-259104
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
7	FB-01-GW_20241007	10 724	12:45	G	Water			X	X	X	X	X	X	X	X	X					14	
8	FB 01-GW_20241007_FBLL	10.724	12.45	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		10 724/17'00	MSG		10-8-24 0800	MSG
2		10-8-24 1400	MSG	4145 7025 5731	10-8-24 1400	fedex
3		Date/Time	Company	Received by: Stephanie Hernandez	10/9/24 1005	EEHA

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 9145 7025 5753	COC No.: 500-127995-50241 57
Client Contact: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-258104
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
9	MW-31_20241007	10-7-24	11:05	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
10	MW-31_20241007_FBLL	10-7-24	11:05	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight		
Relinquished by: Ellen Coppernoll	Date/Time: 10-8-24 1400	Company: White Pine Copper	Received by: 9145 7025 5753	Date/Time: 10-8-24 1400	Company: Fedex
Relinquished by	Date/Time	Company	Received by: Stephanie Hemann	Date/Time: 10/9/24 1005	Company: EETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 9025 5764	COC No: 500-127995-50241 16
Client Contact: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-259104
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL; Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
11	LKS-02_20241007	10-7-24	1330	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
12	LKS-02_20241007_FBLL	10-7-24	1330	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	10-8-24 1400	MSG	4145 7025 5764	10-8-24 1400	fedex
2	Relinquished by	Date/Time	Company	Received by: Stephanie Hamann	101924 1005	EEHA
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4145 7025 5775	COC No: 500-127995-50241 4
Client Contact: Amanda Zeidler	Phone: 906 487-7454	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-258104
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL; Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
13	MW-42_20241007	10-7 24	14:00	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	12	
14	MW-42_20241007_FBLL	10724	14 00	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	10/24/ 1700	MSG		10-8-24 0800	MSG
2		10-8-24 1400	MSG	4145 7025 5775	10-8-24 1400	Fedex
3				Stephanie Hamann	10/9/24 1005	EEN

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 2022	COC No: 500-127995-50241 34
Client Contact: Amanda Zeidler	Phone: 906 487-7454	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-258104
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

500-258104 COC

Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
15	TBS 01_20241008	10 8 24	1000	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	23	
16	TBS 01_20241008_FBLL	10 8 24	1000	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex overnight priority

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	10 8 24 / 1400	MSG		10-8-24 / 14:00	MSG
2		10-9-24 / 16:00	MSG	4051 7962 2022	10-9-24 / 16:00	Fedex
3		Date/Time	Company	Stephanie Hernandez	10/10/24 0905	EEIA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 4.0+3.9, 3.2+3.1, 4.8+4.7

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 2033	COC No: 500-127995-50241 25
Client Contact: Amanda Zeidler	Phone: 906 487-7454	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-258104
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
17	BNW 01-2024 1008	10-8-24	1200	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	22	
18	BNW-01-20241008-FBL	10 824	1200	G	Water										X						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	10 8 24 / 14.00	MSG	Elliott	10-8-24 / 14:00	MSG
2	Elliott	10-9-24 / 16:00	MSG	4061 7962 2033	10-9-24 / 16:00	Fedex
3		Date/Time.	Company	Stephanie Hernandez	10110124 0905	EEIA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4051 7962 2011	COC No: 500-127995-50241 15
Client Contact: Amanda Zeidler	Phone: 715 587-4059	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-259104
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL; Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
19	BNC-01_20241008	10-8-24	1530	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22	
20	BNC-01_20241008_FBLL	10-8-24	1530	G	Water										✓						2	
21	FB-02_20241008_FBLL	10-8-24	1730	G	Water										✓						2	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	10-9-24 / 1600	MSG	4051 7962 2011	10-9-24 / 1600	Fedex
2	Relinquished by	Date/Time	Company	Received by: Stephanie Hemandy	10/10/24 0905	EEA
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks.

THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

CAD: 0780307/CAFE3808

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200 REF:
INV
PO: DEPT:

RMA.

FedEx Express

J241023112201uv

FedEx
TRK# 0221 4145 7025 5786

WED - 09 OCT AA
PRIORITY OVERNIGHT

XP JOTA

60484
IL-US
ORD

5025547 080ct2024 CMXA 581G2/B264/C0B8

MANNIK & SMITH GROUP
SHELDEN AVE
E 210
HTON, MI 49931
ED STATES US

CAD: 0780307/CAFE3808

500-258104 Waybi

SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
)8) 534-5200 REF DEPT

A.

FedEx Express

J241023112201uv

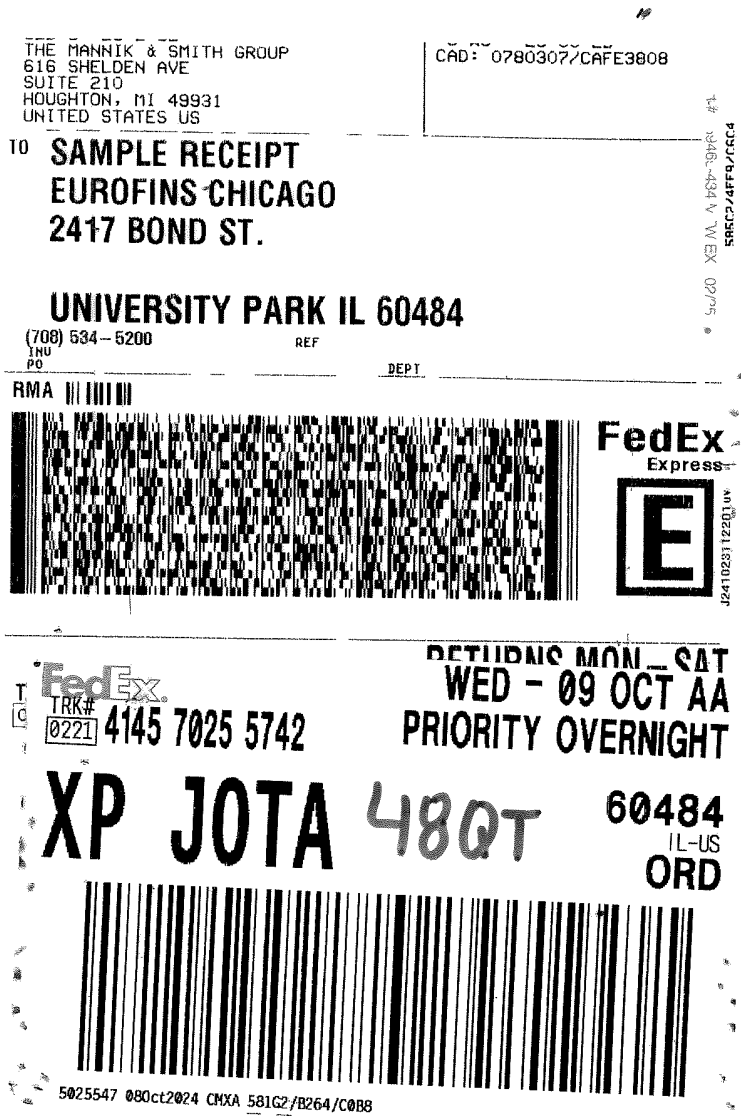
WED - 09 OCT AA
PRIORITY OVERNIGHT

FedEx
TRK# 0221 4145 7025 5731

XP JOTA

60484
IL-US
ORD

5025547 080ct2024 CMXA 581G2/B264/C0B8


THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
CAD: 0780307/CAFE3808
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
REF
INV
PO
DEPT
RMA
FedEx Express
TRK# 0221 4145 7025 5742
WED - 09 OCT AA
PRIORITY OVERNIGHT
XP JOTA 48QT
60484
IL-US
ORD
5025547 08Oct2024 CMXA 581G2/B264/C0B8


THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
CAD: 0780307/CAFE3808
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
REF
INV:
PO:
DEPT:
RMA
FedEx Express
TRK# 0221 4145 7025 5720
WED - 09 OCT AA
PRIORITY OVERNIGHT
XP JOTA
60484
IL-US
ORD
5025547 08Oct2024 CMXA 581G2/B264/C0B8

THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

CAD: 0780307/CAFE3808

Part # 159469-434 MTW EXP 01/25 **

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO: REF:
DEPT:

RMA.

FedEx Express

J241023112201av

FedEx
TRK# 0221 4051 7962 2033

RETURNS MON-SAT
THU - 10 OCT AA
PRIORITY OVERNIGHT

XP JOTA

60484
IL-US
ORD

5878720 090ct2024 CMXA 581G2/B264/C0B8

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CAD: 0780307/CAFE3808

Part # 159469-434 MTW EXP 01/25 **

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EUROFINS CHICAGO
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DEPT:

RMA.

FedEx Express

J241023112201av

TRK# 0221 4051 7962 2011

RETURNS MON-SAT
PRIORITY OVERNIGHT

FedEx
TRK# 0221 4051 7962 2011

THU - 10 OCT AA
PRIORITY OVERNIGHT

XP JOTA

60484
IL-US
ORD

5878720 090ct2024 CMX[illegible]4/C0B8

500-258104 Waybi


SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-8200
INV:
PO:
REF:
DEPT:
RMA:
FedEx
Express
TRK# 0221 4051 7962 2022
RETURNS MON-SAT
PRIORITY OVERNIGHT
60484
FedEx
TRK# 0221 4051 7962 2022
THU - 10 OCT AA
PRIORITY OVERNIGHT
XP JOTA
60484
IL-US
ORD

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

11/6/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193644.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-258104-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/29/2024	Analysis Requested		Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered								Total
			Preservation Code:																	
MW-38_20241007 (500-258104-1)	10/7/24	10:20 Eastern	G	Water			X	X	X	X	X	X								8
MW-38_20241007_FBLL (500-258104-2)	10/7/24	10:20 Eastern	G	Water				X												2
TBN-01_20241007 (500-258104-3)	10/7/24	15:30 Eastern	G	Water			X	X	X	X	X	X								8
TBN-01_20241007_FBLL (500-258104-4)	10/7/24	15:30 Eastern	G	Water				X												2
LKS-01_20241007 (500-258104-5)	10/7/24	15:00 Eastern	G	Water			X	X	X	X	X	X								8
LKS-01_20241007_FBLL (500-258104-6)	10/7/24	15:00 Eastern	G	Water				X												2
FB-01-GW_20241007 (500-258104-7)	10/7/24	12:45 Eastern	G	Water			X	X	X											4
FB-01-GW_20241007_FBLL (500-258104-8)	10/7/24	12:45 Eastern	G	Water				X												2
MW-31_20241007 (500-258104-9)	10/7/24	11:05 Eastern	G	Water			X	X	X	X	X	X								8

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 3.0 / 3.2 °C
Delivery: UPS / (FedEx) / Other: ____
Ice Type: Blue / Dry / (Wet) / None
Label Ver.: ____ Packing: B

Therm. ID: SC03 Cust. Seal: (Y) N
Uncorr./Corr. Temp: 2.9 / 3.1 °C
Delivery: UPS / (FedEx) / Other: ____
Ice Type: Blue / Dry / (Wet) / None
Label Ver.: ____ Packing: B

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification Unconfirmed 7057 7821 1262	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193644.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-258104-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/29/2024			Preservation Codes:
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			Other:
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-31_20241007_FBLL (500-258104-10)	10/7/24	11:05 Eastern	G	Water				X					2	
LKS-02_20241007 (500-258104-11)	10/7/24	13:30 Eastern	G	Water			X	X	X	X	X	X	8	
LKS-02_20241007_FBLL (500-258104-12)	10/7/24	13:30 Eastern	G	Water				X					2	
MW-42_20241007 (500-258104-13)	10/7/24	14:00 Eastern	G	Water			X	X	X	X	X	X	8	
MW-42_20241007_FBLL (500-258104-14)	10/7/24	14:00 Eastern	G	Water				X					2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification 7051 7621 1262 *Unconfirmed*	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 10/9/24 1530	Company	Received by:	Date/Time: 10/10/24 9:30	Company EEIN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193689.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-258104-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/30/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			Other:
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
TBS-01_20241008 (500-258104-15)	10/8/24	10:00 Eastern	G	Water			X	X	X	X	X	X	8	
TBS-01_20241008-FBLL (500-258104-16)	10/8/24	10:00 Eastern	G	Water				X					2	
BNW-01_20241008 (500-258104-17)	10/8/24	12:00 Eastern	G	Water			X	X	X	X	X	X	8	
BNW-01_20241008-FBLL (500-258104-18)	10/8/24	12:00 Eastern	G	Water				X					2	
BNC-01_20241008 (500-258104-19)	10/8/24	15:30 Eastern	G	Water			X	X	X	X	X	X	8	
BNC-01_20241008-FBLL (500-258104-20)	10/8/24	15:30 Eastern	G	Water				X					2	
FB-02_20241008-FBLL (500-258104-21)	10/8/24	17:30 Eastern	G	Water				X					2	

Therm. ID: SC02 Cust. Seal: Y / N
Uncorr./Corr. Temp: 3.0 / 0.2 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: R Packing: B

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment ... maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any cha... tion immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification: Unconfirmed 7051 7621 1435	Sample Disposal (A fee may be assessed ...): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/10/24 15:00			10/11/24 10:10	EET N
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

11/6/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

11/6/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-193689.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note):		Job #: 500-258104-1
Address: 5755 8th Street East, ,	Due Date Requested: 10/30/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #:			
Email:	WO #:			Other:
Project Name: White Pines, MI	Project #: 50023455			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
TBS-01_20241008 (500-258104-15)	10/8/24	10:00 Eastern	G	Water			X	X	X	X	X	X	8	
TBS-01_20241008-FBLL (500-258104-16)	10/8/24	10:00 Eastern	G	Water				X					2	
BNW-01_20241008 (500-258104-17)	10/8/24	12:00 Eastern	G	Water			X	X	X	X	X	X	8	
BNW-01_20241008-FBLL (500-258104-18)	10/8/24	12:00 Eastern	G	Water				X					2	
BNC-01_20241008 (500-258104-19)	10/8/24	15:30 Eastern	G	Water			X	X	X	X	X	X	8	
BNC-01_20241008-FBLL (500-258104-20)	10/8/24	15:30 Eastern	G	Water				X					2	
FB-02_20241008-FBLL (500-258104-21)	10/8/24	17:30 Eastern	G	Water				X					2	

Therm. ID: SC02 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 4.0 / 4.2 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: R Packing: B

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment ... maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any cha... tion immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification: Unconfirmed 7051 7621 1435	Sample Disposal (A fee may be assessed if samples are retained ... ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/10/24 15:00			10/11/24 10:10	EETN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-258104-1

Login Number: 258104
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2,1.7,2.7,1.6,1.0,3.2,2.4,3.9,3.1,4.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-258104-1

Login Number: 258104
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 10/10/24 04:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-258104-1

Login Number: 258104
List Number: 3
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 10/11/24 01:22 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-258104 Field Sheet

Date:	10/10/2024
End Time:	16:36
pH Paper Lot:	hc441704
Analyst:	CL

Preservative ID	Preservative Type	Container ID
A	Hydrochloric Acid	na
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-258104-F-3	<2				
500-258104-F-5	<2				
500-258104-E-5	<2				
500-258104-F-1	<2				
500-258104-E-9	<2				
500-258104-E-7	<2				
500-258104-F-13	<2				
500-258104-E-1	<2				
500-258104-E-11	<2				
500-258104-F-11	<2				
500-258104-F-9	<2				
500-258104-E-3	<2				

CL 10/10/24

eurofins | Environment Testing

500-258104 Field Sheet

Date:	10/10/2024
End Time:	16:30
pH Paper Lot:	hc441704
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Nitric Acid	na
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz

Sample ID	Initial pH	Final pH	Preservative ID	Preservative Added (mL)	Comments
500-258104-M-3	<2				
500-258104-M-9	<2				
500-258104-N-3	<2				
500-258104-M-5	<2				
500-258104-M-1	<2				
500-258104-N-9	<2				
500-258104-N-13	<2				
500-258104-M-11	<2				
500-258104-M-13	<2				
500-258104-N-11	<2				
500-258104-N-1	<2				
500-258104-N-5	<2				
500-258104-M-7	<2				

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500-258104 Field Sheet

Date:	10/10/2024
End Time:	7:00
KI Paper Lot:	na
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	27923
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-258104-A-1	A	Y	.8	2	
500-258104-B-1	A	Y	.8	2	
500-258104-C-1	A	Y	.8	2	
500-258104-D-1	A	Y	.8	2	
500-258104-A-2	A	Y	.8	2	
500-258104-B-2	A	Y	.8	2	
500-258104-A-3	A	Y	.8	2	
500-258104-B-3	A	Y	.8	2	
500-258104-C-3	A	Y	.8	2	
500-258104-D-3	A	Y	.8	2	
500-258104-A-4	A	Y	.8	2	
500-258104-B-4	A	Y	.8	2	
500-258104-A-5	A	Y	.8	2	
500-258104-B-5	A	Y	.8	2	
500-258104-C-5	A	Y	.8	2	
500-258104-D-5	A	Y	.8	2	10/10/24
500-258104-A-6	A	Y	.8	2	
500-258104-B-6	A	Y	.8	2	
500-258104-A-7	A	Y	.8	2	
500-258104-B-7	A	Y	.8	2	
500-258104-A-8	A	Y	.8	2	
500-258104-B-8	A	Y	.8	2	
500-258104-A-9	A	Y	.8	2	
500-258104-B-9	A	Y	.8	2	
500-258104-C-9	A	Y	.8	2	
500-258104-D-9	A	Y	.8	2	
500-258104-A-10	A	Y	.8	2	
500-258104-B-10	A	Y	.8	2	
500-258104-A-11	A	Y	.8	2	
500-258104-B-11	A	Y	.8	2	
500-258104-C-11	A	Y	.8	2	
500-258104-D-11	A	Y	.8	2	
500-258104-A-12	A	Y	.8	2	
500-258104-B-12	A	Y	.8	2	
500-258104-A-13	A	Y	.8	2	

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500-258104 Field Sheet

Date:	10/10/2024
End Time:	17:00
KI Paper Lot:	na
Analyst:	VL

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	27923
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-258104-A-1	A	Y	.8	2	
500-258104-B-1	A	Y	.8	2	
500-258104-C-1	A	Y	.8	2	
500-258104-D-1	A	Y	.8	2	
500-258104-A-2	A	Y	.8	2	
500-258104-B-2	A	Y	.8	2	
500-258104-A-3	A	Y	.8	2	
500-258104-B-3	A	Y	.8	2	
500-258104-C-3	A	Y	.8	2	
500-258104-D-3	A	Y	.8	2	
500-258104-A-4	A	Y	.8	2	
500-258104-B-4	A	Y	.8	2	
500-258104-A-5	A	Y	.8	2	
500-258104-B-5	A	Y	.8	2	
500-258104-C-5	A	Y	.8	2	VL 10/10/24
500-258104-D-5	A	Y	.8	2	
500-258104-A-6	A	Y	.8	2	
500-258104-B-6	A	Y	.8	2	
500-258104-A-7	A	Y	.8	2	
500-258104-B-7	A	Y	.8	2	
500-258104-A-8	A	Y	.8	2	
500-258104-B-8	A	Y	.8	2	
500-258104-A-9	A	Y	.8	2	
500-258104-B-9	A	Y	.8	2	
500-258104-C-9	A	Y	.8	2	
500-258104-D-9	A	Y	.8	2	
500-258104-A-10	A	Y	.8	2	
500-258104-B-10	A	Y	.8	2	
500-258104-A-11	A	Y	.8	2	
500-258104-B-11	A	Y	.8	2	
500-258104-C-11	A	Y	.8	2	
500-258104-D-11	A	Y	.8	2	
500-258104-A-12	A	Y	.8	2	
500-258104-B-12	A	Y	.8	2	
500-258104-A-13	A	Y	.8	2	

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Date:	10/10/2024
End Time:	17:00
KI Paper Lot:	na
Analyst:	VL

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	27923
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz
zzzzzzzzzzzzzzz	zzzzzzzzzzzzzzzzzzzzzz	zzzzzzzzzz

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
500-258104-B-12	A	Y	.8 2	
500-258104-A-13	A	Y	.8 2	
500-258104-B-13	A	Y	.8 2	VL 10/10/24
500-258104-C-13	A	Y	.8 2	
500-258104-D-13	A	Y	.8 2	
500-258104-A-14	A	Y	.8 2	
500-258104-B-14	A	Y	.8 2	

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500-258104 Field Sheet

Date:	10/11/2024
End Time:	14:36
KI Paper Lot:	na
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	27923
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-258104-A-15	A	Y	.8	2	
500-258104-B-15	A	Y	.8	2	
500-258104-C-15	A	Y	.8	2	
500-258104-D-15	A	Y	.8	2	
500-258104-A-16	A	Y	.8	2	
500-258104-B-16	A	Y	.8	2	
500-258104-A-17	A	Y	.8	2	
500-258104-B-17	A	Y	.8	2	
500-258104-C-17	A	Y	.8	2	
500-258104-D-17	A	Y	.8	2	
500-258104-A-18	A	Y	.8	2	
500-258104-B-18	A	Y	.8	2	
500-258104-A-19	A	Y	.8	2	
500-258104-B-19	A	Y	.8	2	
500-258104-C-19	A	Y	.8	2	
500-258104-D-19	A	Y	.8	2	
500-258104-A-20	A	Y	.8	2	
500-258104-B-20	A	Y	.8	2	
500-258104-A-21	A	Y	.8	2	
500-258104-B-21	A	Y	.8	2	

Groundwater and Surface Water Analytical Reports

Eurofins Chicago

December 2024 & January 2025

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

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JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-260921-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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Authorized for release by
Sandie Fredrick, Senior Project Manager
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(920)261-1660

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Job Narrative
500-260921-1

Receipt
The samples were received on 12/4/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 3.3º C, 3.5º C, 4.7º C and 5.0º C.

Receipt Exceptions
One of two containers for the following samples were received broken or leaking: DUP-01-SW_20241202_FBLL (500-260921-2) and Influent (500-260990-1).

The following sample(s) was received with insufficient time remaining to perform the analysis within holding time: Sample #7 for IC N2 and N3, received 12/4 0930 CST, sampled 12/7 1040 EST.

Metals
Method 1630: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 350-3845 and analytical batch 350-3870 were outside control limits, see QC Sample Results for detail. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The native sample, matrix spike (MS) associated with analytical batch 500-798051 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Chloride in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 300.0: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. MLR-03_20241202 (500-260921-3), PRC-02_20241202 (500-260921-5), NTC-01_20241202 (500-260921-7), NB2-3_20241202 (500-260921-9), NB2-1_20241202 (500-260921-11) and MLC-01_20241202 (500-260921-13)

Method SM 2320B: The method blank for analytical batch 500-798892 contained Alkalinity above the reporting limit (RL). Associated sample(s) were not re-analyzed because results were greater than 10X the value found in the method blank.

Method SM 2320B: The method blank for analytical batch 500-799502 contained Alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: DUP-01-SW_20241202 — Lab Sample ID: 500-260921-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.68		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.81		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.048	J	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.047	J	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	25	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.38	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	32		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	77	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	20000		200	44	ug/L	1		6020B	Total Recoverable
Copper	4.8		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	260		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	4300		200	49	ug/L	1		6020B	Total Recoverable
Manganese	34		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	2300		500	110	ug/L	1		6020B	Total Recoverable
Sodium	7700		200	77	ug/L	1		6020B	Total Recoverable
Strontium	140		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.35	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	30		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	73	B	50	13	ug/L	1		6020B	Dissolved
Calcium	20000		200	44	ug/L	1		6020B	Dissolved
Copper	3.4		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	140		100	47	ug/L	1		6020B	Dissolved
Magnesium	4200		200	49	ug/L	1		6020B	Dissolved
Manganese	31		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	2300		500	110	ug/L	1		6020B	Dissolved
Sodium	7600		200	77	ug/L	1		6020B	Dissolved
Strontium	140		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	68		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	15		1.0	0.42	mg/L	1		300.0	Total/NA
Sulfate	2.5		1.0	0.47	mg/L	1		300.0	Total/NA
Alkalinity	66	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	66	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	92		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	9.0		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	8.7		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: DUP-01-SW_20241202_FBLL — Lab Sample ID: 500-260921-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.23	J	0.50	0.20	ng/L	1		1631E	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: MLR-03_20241202

Lab Sample ID: 500-260921-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.023	J B	0.050	0.022	ng/L	1		1630	Dissolved
Mercury	2.3		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	2.0		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.25		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.24		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	220		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.49	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	24		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	26	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	20000		200	44	ug/L	1		6020B	Total Recoverable
Copper	29		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	580		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	4600		200	49	ug/L	1		6020B	Total Recoverable
Manganese	7.3		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1100		500	110	ug/L	1		6020B	Total Recoverable
Sodium	8900		200	77	ug/L	1		6020B	Total Recoverable
Strontium	52		4.0	0.64	ug/L	1		6020B	Total Recoverable
Aluminum	41	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.42	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	22		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	27	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	20000		200	44	ug/L	1		6020B	Dissolved
Copper	25		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	320		100	47	ug/L	1		6020B	Dissolved
Magnesium	4600		200	49	ug/L	1		6020B	Dissolved
Manganese	3.4		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1000		500	110	ug/L	1		6020B	Dissolved
Sodium	9000		200	77	ug/L	1		6020B	Dissolved
Strontium	51		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	69		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	13		1.0	0.42	mg/L	1		300.0	Total/NA
Sulfate	4.2		1.0	0.47	mg/L	1		300.0	Total/NA
Alkalinity	71	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	71	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	92		10	4.3	mg/L	1		SM 2540C	Total/NA
Sulfide	1.7		1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	10		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	10		1.0	0.47	mg/L	1		SM 5310C	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: MLR-03_20241202_FBLL — Lab Sample ID: 500-260921-4

No Detections.

Client Sample ID: PRC-02_20241202 — Lab Sample ID: 500-260921-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.33	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.22	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.69		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.70		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	55	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.49	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	130		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	320	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	78000		200	44	ug/L	1		6020B	Total Recoverable
Copper	21		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	140		100	47	ug/L	1		6020B	Total Recoverable
Lithium	34	^5-	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	11000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	32		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	42		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	5000		500	110	ug/L	1		6020B	Total Recoverable
Sodium	70000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	840		4.0	0.64	ug/L	1		6020B	Total Recoverable
Aluminum	110		100	25	ug/L	1		6020B	Dissolved
Arsenic	0.52	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	120		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	300	B	50	13	ug/L	1		6020B	Dissolved
Calcium	76000		200	44	ug/L	1		6020B	Dissolved
Copper	25		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	260		100	47	ug/L	1		6020B	Dissolved
Lithium	31	^5-	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	11000		200	49	ug/L	1		6020B	Dissolved
Manganese	38		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	41		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	4900		500	110	ug/L	1		6020B	Dissolved
Sodium	68000		200	77	ug/L	1		6020B	Dissolved
Strontium	840		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	240		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	1.7		1.0	0.45	mg/L	1		300.0	Total/NA
Chloride	210		1.0	0.42	mg/L	1		300.0	Total/NA
Sulfate	31		1.0	0.47	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: PRC-02_20241202 (Continued) — Lab Sample ID: 500-260921-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity	96	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	96	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	550		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	3.2	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	3.9		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	3.9		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: PRC-02_20241202_FBLL — Lab Sample ID: 500-260921-6

No Detections.

Client Sample ID: NTC-01_20241202 — Lab Sample ID: 500-260921-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.70		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.69		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.051	B	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.043	J B	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	36	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.37	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	32		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	71	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	21000		200	44	ug/L	1		6020B	Total Recoverable
Copper	3.8		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	260		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	4300		200	49	ug/L	1		6020B	Total Recoverable
Manganese	34		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	2400		500	110	ug/L	1		6020B	Total Recoverable
Sodium	7800		200	77	ug/L	1		6020B	Total Recoverable
Strontium	150		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.36	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	30		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	60	B	50	13	ug/L	1		6020B	Dissolved
Calcium	20000		200	44	ug/L	1		6020B	Dissolved
Copper	3.5		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	150		100	47	ug/L	1		6020B	Dissolved
Magnesium	4200		200	49	ug/L	1		6020B	Dissolved
Manganese	32		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	2300		500	110	ug/L	1		6020B	Dissolved
Sodium	7600		200	77	ug/L	1		6020B	Dissolved
Strontium	140		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	70		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: NTC-01_20241202 (Continued) — Lab Sample ID: 500-260921-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15		1.0	0.42	mg/L	1		300.0	Total/NA
Sulfate	2.5		1.0	0.47	mg/L	1		300.0	Total/NA
Alkalinity	64	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	64	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	90		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	8.9		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	8.8		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: NTC-01_20241202_FBLL — Lab Sample ID: 500-260921-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.30	J	0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: NB2-3_20241202 — Lab Sample ID: 500-260921-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.70		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.71		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.016	J B	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.020	J B	0.050	0.0098	ug/L	1		1638	Dissolved
Arsenic	7.3		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	160		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	1700	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	20000		200	44	ug/L	1		6020B	Total Recoverable
Copper	0.99	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	460		100	47	ug/L	1		6020B	Total Recoverable
Lithium	7.6	J ^5-	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	2100		200	49	ug/L	1		6020B	Total Recoverable
Manganese	94		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	170		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	8100		500	110	ug/L	1		6020B	Total Recoverable
Sodium	200000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	260		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	6.4		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	150		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	1600	B	50	13	ug/L	1		6020B	Dissolved
Calcium	20000		200	44	ug/L	1		6020B	Dissolved
Copper	0.75	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	130		100	47	ug/L	1		6020B	Dissolved
Lithium	7.2	J ^5-	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	2000		200	49	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: NB2-3_20241202 (Continued) — Lab Sample ID: 500-260921-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	98		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	170		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	8000		500	110	ug/L	1		6020B	Dissolved
Sodium	200000		200	77	ug/L	1		6020B	Dissolved
Strontium	260		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	59		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	2.5		1.0	0.45	mg/L	1		300.0	Total/NA
Chloride	250		10	4.2	mg/L	10		300.0	Total/NA
Fluoride	0.54	J	1.0	0.43	mg/L	1		300.0	Total/NA
Ammonia	0.12	J	0.20	0.10	mg/L	1		350.1	Total/NA
Phosphorus as P	0.14		0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	150	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	150	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.40		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	620		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	5.6		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	4.2		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	4.2		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: NB2-3_20241202_FBLL — Lab Sample ID: 500-260921-10

No Detections.

Client Sample ID: NB2-1_20241202 — Lab Sample ID: 500-260921-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.31	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.26	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.12	B	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.13	B	0.050	0.0098	ug/L	1		1638	Dissolved
Arsenic	0.40	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	1200		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	730	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	130000		200	44	ug/L	1		6020B	Total Recoverable
Iron	47	J	100	47	ug/L	1		6020B	Total Recoverable
Lithium	43	^5-	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	38000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	750		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	16000		500	110	ug/L	1		6020B	Total Recoverable
Sodium	85000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	2000		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.38	J	1.0	0.23	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: NB2-1_20241202 (Continued) — Lab Sample ID: 500-260921-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	1600		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	690	B	50	13	ug/L	1		6020B	Dissolved
Calcium	130000		200	44	ug/L	1		6020B	Dissolved
Lithium	42	^5-	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	37000		200	49	ug/L	1		6020B	Dissolved
Manganese	770		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	16000		500	110	ug/L	1		6020B	Dissolved
Sodium	86000		200	77	ug/L	1		6020B	Dissolved
Strontium	2000		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	490		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.91	J	1.0	0.45	mg/L	1		300.0	Total/NA
Chloride	130		1.0	0.42	mg/L	1		300.0	Total/NA
Sulfate	58		10	4.7	mg/L	10		300.0	Total/NA
Ammonia	0.39		0.20	0.10	mg/L	1		350.1	Total/NA
Alkalinity	430	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	430	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	0.48		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	760		10	4.3	mg/L	1		SM 2540C	Total/NA
Sulfide	2.5		1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	6.6		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	6.6		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: NB2-1_20241202_FBLL — Lab Sample ID: 500-260921-12

No Detections.

Client Sample ID: MLC-01_20241202 — Lab Sample ID: 500-260921-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.88		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.70		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.20	B	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.19	B	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	39	J	100	25	ug/L	1		6020B	Total Recoverable
Barium	71		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	59	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	26000		200	44	ug/L	1		6020B	Total Recoverable
Copper	6.3		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	96	J	100	47	ug/L	1		6020B	Total Recoverable
Magnesium	6100		200	49	ug/L	1		6020B	Total Recoverable
Manganese	6.9		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1600		500	110	ug/L	1		6020B	Total Recoverable
Sodium	7900		200	77	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MLC-01_20241202 (Continued) — Lab Sample ID: 500-260921-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Strontium	150		4.0	0.64	ug/L	1		6020B	Total Recoverable
Barium	69		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	47	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	26000		200	44	ug/L	1		6020B	Dissolved
Copper	5.8		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	48	J	100	47	ug/L	1		6020B	Dissolved
Magnesium	6000		200	49	ug/L	1		6020B	Dissolved
Manganese	6.2		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1600		500	110	ug/L	1		6020B	Dissolved
Sodium	7800		200	77	ug/L	1		6020B	Dissolved
Strontium	150		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	89		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	38		1.0	0.42	mg/L	1		300.0	Total/NA
Sulfate	7.7		1.0	0.47	mg/L	1		300.0	Total/NA
Alkalinity	57	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	57	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	150		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	5.1		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	5.1		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MLC-01_20241202-FBLL — Lab Sample ID: 500-260921-14

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-260921-1	DUP-01-SW_20241202	Water	12/02/24 23:59	12/04/24 09:30
500-260921-2	DUP-01-SW_20241202_FBLL	Water	12/02/24 23:59	12/04/24 09:30
500-260921-3	MLR-03_20241202	Water	12/02/24 14:00	12/04/24 09:30
500-260921-4	MLR-03_20241202_FBLL	Water	12/02/24 14:00	12/04/24 09:30
500-260921-5	PRC-02_20241202	Water	12/02/24 12:20	12/04/24 09:30
500-260921-6	PRC-02_20241202_FBLL	Water	12/02/24 12:20	12/04/24 09:30
500-260921-7	NTC-01_20241202	Water	12/02/24 10:40	12/04/24 09:30
500-260921-8	NTC-01_20241202_FBLL	Water	12/02/24 10:40	12/04/24 09:30
500-260921-9	NB2-3_20241202	Water	12/02/24 17:15	12/04/24 09:30
500-260921-10	NB2-3_20241202_FBLL	Water	12/02/24 17:15	12/04/24 09:30
500-260921-11	NB2-1_20241202	Water	12/02/24 16:20	12/04/24 09:30
500-260921-12	NB2-1_20241202_FBLL	Water	12/02/24 16:20	12/04/24 09:30
500-260921-13	MLC-01_20241202	Water	12/02/24 15:10	12/04/24 09:30
500-260921-14	MLC-01_20241202-FBLL	Water	12/02/24 15:10	12/04/24 09:30

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: DUP-01-SW_20241202

Date Collected: 12/02/24 23:59
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/12/24 10:23	12/12/24 22:17	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/12/24 10:23	12/12/24 22:27	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.68**		0.50	0.20	ng/L			12/12/24 17:58	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.81**		0.50	0.20	ng/L			12/12/24 19:50	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.048**	**J**	0.050	0.0098	ug/L		12/26/24 12:54	12/30/24 17:03	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.047**	**J**	0.050	0.0098	ug/L		12/26/24 12:54	12/30/24 17:07	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**25**	**J**	100	25	ug/L		12/12/24 15:33	12/13/24 14:07	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:33	12/13/24 14:07	1
Arsenic	**0.38**	**J**	1.0	0.23	ug/L		12/12/24 15:33	12/13/24 14:07	1
Barium	**32**		2.5	0.73	ug/L		12/12/24 15:33	12/13/24 14:07	1
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:33	12/16/24 14:49	1
Boron	**77**	**B**	50	13	ug/L		12/12/24 15:33	12/16/24 14:49	1
Cadmium	<0.17		0.50	0.17	ug/L		12/12/24 15:33	12/13/24 14:07	1
Calcium	**20000**		200	44	ug/L		12/12/24 15:33	12/16/24 14:49	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:33	12/13/24 14:07	1
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:33	12/13/24 14:07	1
Copper	**4.8**		2.0	0.50	ug/L		12/12/24 15:33	12/13/24 14:07	1
Iron	**260**		100	47	ug/L		12/12/24 15:33	12/13/24 14:07	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:33	12/13/24 14:07	1
Lithium	<2.5	^5-	10	2.5	ug/L		12/12/24 15:33	12/13/24 14:07	1
Magnesium	**4300**		200	49	ug/L		12/12/24 15:33	12/13/24 14:07	1
Manganese	**34**		2.5	0.79	ug/L		12/12/24 15:33	12/13/24 14:07	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/12/24 15:33	12/13/24 14:07	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:33	12/13/24 14:07	1
Potassium	**2300**		500	110	ug/L		12/12/24 15:33	12/13/24 14:07	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:33	12/13/24 14:07	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:33	12/13/24 14:07	1
Sodium	**7700**		200	77	ug/L		12/12/24 15:33	12/13/24 14:07	1
Strontium	**140**		4.0	0.64	ug/L		12/12/24 15:33	12/13/24 14:07	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:33	12/13/24 14:07	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:33	12/13/24 14:07	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:33	12/13/24 14:07	1
Zinc	<6.9		20	6.9	ug/L		12/12/24 15:33	12/13/24 14:07	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: DUP-01-SW_20241202

Date Collected: 12/02/24 23:59
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/12/24 15:28	12/13/24 15:51	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:28	12/13/24 15:51	1
Arsenic	**0.35**	**J**	1.0	0.23	ug/L		12/12/24 15:28	12/13/24 15:51	1
Barium	**30**		2.5	0.73	ug/L		12/12/24 15:28	12/13/24 15:51	1
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:28	12/13/24 15:51	1
Boron	**73**	**B**	50	13	ug/L		12/12/24 15:28	12/13/24 15:51	1
Cadmium	<0.17		0.50	0.17	ug/L		12/12/24 15:28	12/13/24 15:51	1
Calcium	**20000**		200	44	ug/L		12/12/24 15:28	12/16/24 15:22	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:28	12/13/24 15:51	1
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:28	12/13/24 15:51	1
Copper	**3.4**		2.0	0.50	ug/L		12/12/24 15:28	12/13/24 15:51	1
Iron	**140**		100	47	ug/L		12/12/24 15:28	12/13/24 15:51	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:28	12/13/24 15:51	1
Lithium	<2.5	^5-	10	2.5	ug/L		12/12/24 15:28	12/13/24 15:51	1
Magnesium	**4200**		200	49	ug/L		12/12/24 15:28	12/13/24 15:51	1
Manganese	**31**		2.5	0.79	ug/L		12/12/24 15:28	12/13/24 15:51	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/12/24 15:28	12/13/24 15:51	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:28	12/13/24 15:51	1
Potassium	**2300**		500	110	ug/L		12/12/24 15:28	12/13/24 15:51	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:28	12/13/24 15:51	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:28	12/13/24 15:51	1
Sodium	**7600**		200	77	ug/L		12/12/24 15:28	12/13/24 15:51	1
Strontium	**140**		4.0	0.64	ug/L		12/12/24 15:28	12/13/24 15:51	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:28	12/13/24 15:51	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:28	12/13/24 15:51	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:28	12/13/24 15:51	1
Zinc	<6.9		20	6.9	ug/L		12/12/24 15:28	12/13/24 15:51	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**68**		0.91	0.46	mg/L		12/12/24 15:33	12/16/24 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.45		1.0	0.45	mg/L			12/04/24 16:14	1
Nitrate as N (EPA 300.0)	<0.37		1.0	0.37	mg/L			12/04/24 16:14	1
Chloride (EPA 300.0)	**15**		1.0	0.42	mg/L			12/04/24 16:14	1
Nitrite as N (EPA 300.0)	<0.25		1.0	0.25	mg/L			12/04/24 16:14	1
Fluoride (EPA 300.0)	<0.43		1.0	0.43	mg/L			12/04/24 16:14	1
Nitrate Nitrite as N (EPA 300.0)	<0.37		1.0	0.37	mg/L			12/04/24 16:14	1
Sulfate (EPA 300.0)	**2.5**		1.0	0.47	mg/L			12/04/24 16:14	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/05/24 13:27	12/05/24 15:38	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/17/24 14:31	12/18/24 16:47	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 10:53	1
Alkalinity (SM 2320B)	**66**	**B**	5.0	3.7	mg/L			12/13/24 15:59	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**66**	**B**	5.0	3.7	mg/L			12/13/24 15:59	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/13/24 15:59	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/08/24 14:12	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: DUP-01-SW_20241202
Date Collected: 12/02/24 23:59
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**92**		10	4.3	mg/L			12/06/24 02:07	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			12/05/24 10:10	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			12/06/24 01:01	1
Total Organic Carbon (SM 5310C)	**9.0**		1.0	0.47	mg/L			12/08/24 16:02	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**8.7**		1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: DUP-01-SW_20241202_FBLL
Date Collected: 12/02/24 23:59
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23	J	0.50	0.20	ng/L			12/12/24 18:02	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: MLR-03_20241202

Date Collected: 12/02/24 14:00
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-3

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/12/24 10:23	12/12/24 22:37	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	**0.023**	**J B**	0.050	0.022	ng/L		12/12/24 10:23	12/12/24 22:47	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.3**		0.50	0.20	ng/L			12/12/24 18:06	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.0**		0.50	0.20	ng/L			12/12/24 19:54	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.25**		0.050	0.0098	ug/L		12/26/24 12:54	12/30/24 17:17	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.24**		0.050	0.0098	ug/L		12/26/24 10:17	12/30/24 10:42	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**220**		100	25	ug/L		12/12/24 15:33	12/13/24 14:10	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:33	12/13/24 14:10	1
Arsenic	**0.49**	**J**	1.0	0.23	ug/L		12/12/24 15:33	12/13/24 14:10	1
Barium	**24**		2.5	0.73	ug/L		12/12/24 15:33	12/13/24 14:10	1
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:33	12/16/24 14:51	1
Boron	**26**	**J B**	50	13	ug/L		12/12/24 15:33	12/16/24 14:51	1
Cadmium	<0.17		0.50	0.17	ug/L		12/12/24 15:33	12/13/24 14:10	1
Calcium	**20000**		200	44	ug/L		12/12/24 15:33	12/16/24 14:51	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:33	12/13/24 14:10	1
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:33	12/13/24 14:10	1
Copper	**29**		2.0	0.50	ug/L		12/12/24 15:33	12/13/24 14:10	1
Iron	**580**		100	47	ug/L		12/12/24 15:33	12/13/24 14:10	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:33	12/13/24 14:10	1
Lithium	<2.5	^5-	10	2.5	ug/L		12/12/24 15:33	12/13/24 14:10	1
Magnesium	**4600**		200	49	ug/L		12/12/24 15:33	12/13/24 14:10	1
Manganese	**7.3**		2.5	0.79	ug/L		12/12/24 15:33	12/13/24 14:10	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/12/24 15:33	12/13/24 14:10	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:33	12/13/24 14:10	1
Potassium	**1100**		500	110	ug/L		12/12/24 15:33	12/13/24 14:10	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:33	12/13/24 14:10	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:33	12/13/24 14:10	1
Sodium	**8900**		200	77	ug/L		12/12/24 15:33	12/13/24 14:10	1
Strontium	**52**		4.0	0.64	ug/L		12/12/24 15:33	12/13/24 14:10	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:33	12/13/24 14:10	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:33	12/13/24 14:10	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:33	12/13/24 14:10	1
Zinc	<6.9		20	6.9	ug/L		12/12/24 15:33	12/13/24 14:10	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: MLR-03_20241202

Date Collected: 12/02/24 14:00
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-3

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**41**	**J**	100	25	ug/L		12/12/24 15:28	12/13/24 15:53	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:28	12/13/24 15:53	1
Arsenic	**0.42**	**J**	1.0	0.23	ug/L		12/12/24 15:28	12/13/24 15:53	1
Barium	**22**		2.5	0.73	ug/L		12/12/24 15:28	12/13/24 15:53	1
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:28	12/13/24 15:53	1
Boron	**27**	**J B**	50	13	ug/L		12/12/24 15:28	12/13/24 15:53	1
Cadmium	<0.17		0.50	0.17	ug/L		12/12/24 15:28	12/13/24 15:53	1
Calcium	**20000**		200	44	ug/L		12/12/24 15:28	12/16/24 15:24	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:28	12/13/24 15:53	1
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:28	12/13/24 15:53	1
Copper	**25**		2.0	0.50	ug/L		12/12/24 15:28	12/13/24 15:53	1
Iron	**320**		100	47	ug/L		12/12/24 15:28	12/13/24 15:53	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:28	12/13/24 15:53	1
Lithium	<2.5	^5-	10	2.5	ug/L		12/12/24 15:28	12/13/24 15:53	1
Magnesium	**4600**		200	49	ug/L		12/12/24 15:28	12/13/24 15:53	1
Manganese	**3.4**		2.5	0.79	ug/L		12/12/24 15:28	12/13/24 15:53	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/12/24 15:28	12/13/24 15:53	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:28	12/13/24 15:53	1
Potassium	**1000**		500	110	ug/L		12/12/24 15:28	12/13/24 15:53	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:28	12/13/24 15:53	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:28	12/13/24 15:53	1
Sodium	**9000**		200	77	ug/L		12/12/24 15:28	12/13/24 15:53	1
Strontium	**51**		4.0	0.64	ug/L		12/12/24 15:28	12/13/24 15:53	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:28	12/13/24 15:53	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:28	12/13/24 15:53	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:28	12/13/24 15:53	1
Zinc	<6.9		20	6.9	ug/L		12/12/24 15:28	12/13/24 15:53	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**69**		0.91	0.46	mg/L		12/12/24 15:33	12/16/24 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.45		1.0	0.45	mg/L			12/04/24 16:29	1
Nitrate as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/04/24 16:29	1
Chloride (EPA 300.0)	**13**		1.0	0.42	mg/L			12/04/24 16:29	1
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/04/24 16:29	1
Fluoride (EPA 300.0)	<0.43		1.0	0.43	mg/L			12/04/24 16:29	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/04/24 16:29	1
Sulfate (EPA 300.0)	**4.2**		1.0	0.47	mg/L			12/04/24 16:29	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/05/24 13:27	12/05/24 15:40	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/18/24 14:37	12/18/24 16:50	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 10:54	1
Alkalinity (SM 2320B)	**71**	**B**	5.0	3.7	mg/L			12/09/24 12:36	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**71**	**B**	5.0	3.7	mg/L			12/09/24 12:36	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 12:36	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/08/24 14:12	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: MLR-03_20241202
Date Collected: 12/02/24 14:00
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**92**		10	4.3	mg/L			12/06/24 02:10	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			12/05/24 10:12	1
Sulfide (SM 4500 S2 F)	**1.7**		1.0	0.23	mg/L			12/09/24 23:31	1
Total Organic Carbon (SM 5310C)	**10**		1.0	0.47	mg/L			12/08/24 17:26	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**10**		1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: MLR-03_20241202_FBLL

Lab Sample ID: 500-260921-4

Date Collected: 12/02/24 14:00
Matrix: Water
Date Received: 12/04/24 09:30

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/12/24 18:10	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: PRC-02_20241202

Date Collected: 12/02/24 12:20
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-5

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/12/24 10:23	12/12/24 22:58	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/12/24 10:23	12/12/24 23:08	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.33**	**J**	0.50	0.20	ng/L			12/12/24 18:15	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**	**J**	0.50	0.20	ng/L			12/12/24 19:58	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.69**		0.050	0.0098	ug/L		12/26/24 10:17	12/30/24 10:15	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.70**		0.050	0.0098	ug/L		12/26/24 10:17	12/30/24 10:46	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**55**	**J**	100	25	ug/L		12/12/24 15:33	12/13/24 14:13	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:33	12/13/24 14:13	1
Arsenic	**0.49**	**J**	1.0	0.23	ug/L		12/12/24 15:33	12/13/24 14:13	1
Barium	**130**		2.5	0.73	ug/L		12/12/24 15:33	12/13/24 14:13	1
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:33	12/16/24 14:54	1
Boron	**320**	**B**	50	13	ug/L		12/12/24 15:33	12/16/24 14:54	1
Cadmium	<0.17		0.50	0.17	ug/L		12/12/24 15:33	12/13/24 14:13	1
Calcium	**78000**		200	44	ug/L		12/12/24 15:33	12/16/24 14:54	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:33	12/13/24 14:13	1
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:33	12/13/24 14:13	1
Copper	**21**		2.0	0.50	ug/L		12/12/24 15:33	12/13/24 14:13	1
Iron	**140**		100	47	ug/L		12/12/24 15:33	12/13/24 14:13	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:33	12/13/24 14:13	1
Lithium	**34**	**^5-**	10	2.5	ug/L		12/12/24 15:33	12/13/24 14:13	1
Magnesium	**11000**		200	49	ug/L		12/12/24 15:33	12/13/24 14:13	1
Manganese	**32**		2.5	0.79	ug/L		12/12/24 15:33	12/13/24 14:13	1
Molybdenum	**42**		5.0	2.5	ug/L		12/12/24 15:33	12/13/24 14:13	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:33	12/13/24 14:13	1
Potassium	**5000**		500	110	ug/L		12/12/24 15:33	12/13/24 14:13	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:33	12/13/24 14:13	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:33	12/13/24 14:13	1
Sodium	**70000**		200	77	ug/L		12/12/24 15:33	12/13/24 14:13	1
Strontium	**840**		4.0	0.64	ug/L		12/12/24 15:33	12/13/24 14:13	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:33	12/13/24 14:13	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:33	12/13/24 14:13	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:33	12/13/24 14:13	1
Zinc	<6.9		20	6.9	ug/L		12/12/24 15:33	12/13/24 14:13	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: PRC-02_20241202

Date Collected: 12/02/24 12:20
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-5

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**110**		100	25	ug/L		12/12/24 15:28	12/13/24 16:01	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:28	12/13/24 16:01	1
Arsenic	**0.52**	**J**	1.0	0.23	ug/L		12/12/24 15:28	12/13/24 16:01	1
Barium	**120**		2.5	0.73	ug/L		12/12/24 15:28	12/13/24 16:01	1
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:28	12/13/24 16:01	1
Boron	**300**	**B**	50	13	ug/L		12/12/24 15:28	12/13/24 16:01	1
Cadmium	<0.17		0.50	0.17	ug/L		12/12/24 15:28	12/13/24 16:01	1
Calcium	**76000**		200	44	ug/L		12/12/24 15:28	12/16/24 15:27	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:28	12/13/24 16:01	1
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:28	12/13/24 16:01	1
Copper	**25**		2.0	0.50	ug/L		12/12/24 15:28	12/13/24 16:01	1
Iron	**260**		100	47	ug/L		12/12/24 15:28	12/13/24 16:01	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:28	12/13/24 16:01	1
Lithium	**31**	**^5-**	10	2.5	ug/L		12/12/24 15:28	12/13/24 16:01	1
Magnesium	**11000**		200	49	ug/L		12/12/24 15:28	12/13/24 16:01	1
Manganese	**38**		2.5	0.79	ug/L		12/12/24 15:28	12/13/24 16:01	1
Molybdenum	**41**		5.0	2.5	ug/L		12/12/24 15:28	12/13/24 16:01	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:28	12/13/24 16:01	1
Potassium	**4900**		500	110	ug/L		12/12/24 15:28	12/13/24 16:01	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:28	12/13/24 16:01	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:28	12/13/24 16:01	1
Sodium	**68000**		200	77	ug/L		12/12/24 15:28	12/13/24 16:01	1
Strontium	**840**		4.0	0.64	ug/L		12/12/24 15:28	12/13/24 16:01	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:28	12/13/24 16:01	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:28	12/13/24 16:01	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:28	12/13/24 16:01	1
Zinc	<6.9		20	6.9	ug/L		12/12/24 15:28	12/13/24 16:01	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**240**		0.91	0.46	mg/L		12/12/24 15:33	12/16/24 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**1.7**		1.0	0.45	mg/L			12/04/24 16:45	1
Nitrate as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/04/24 16:45	1
Chloride (EPA 300.0)	**210**		1.0	0.42	mg/L			12/04/24 11:43	1
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/04/24 16:45	1
Fluoride (EPA 300.0)	<0.43		1.0	0.43	mg/L			12/04/24 16:45	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/04/24 16:45	1
Sulfate (EPA 300.0)	**31**		1.0	0.47	mg/L			12/04/24 16:45	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/05/24 13:27	12/05/24 15:42	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/18/24 14:37	12/18/24 16:50	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 10:54	1
Alkalinity (SM 2320B)	**96**	**B**	5.0	3.7	mg/L			12/09/24 12:44	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**96**	**B**	5.0	3.7	mg/L			12/09/24 12:44	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 12:44	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/08/24 14:12	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: PRC-02_20241202
Date Collected: 12/02/24 12:20
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-5
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	550		10	4.3	mg/L			12/06/24 02:12	1
Total Suspended Solids (SM 2540D)	3.2	J	5.0	1.9	mg/L			12/05/24 10:14	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			12/09/24 23:35	1
Total Organic Carbon (SM 5310C)	3.9		1.0	0.47	mg/L			12/08/24 17:54	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	3.9		1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: PRC-02_20241202_FBLL
Date Collected: 12/02/24 12:20
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-6
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/12/24 18:19	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: NTC-01_20241202

Date Collected: 12/02/24 10:40
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-7

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/12/24 10:23	12/12/24 23:38	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/12/24 10:23	12/12/24 23:49	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.70**		0.50	0.20	ng/L			12/12/24 18:23	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.69**		0.50	0.20	ng/L			12/12/24 20:03	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.051**	**B**	0.050	0.0098	ug/L		12/26/24 12:54	12/27/24 19:23	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.043**	**J B**	0.050	0.0098	ug/L		12/26/24 12:54	12/27/24 19:26	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**36**	**J**	100	25	ug/L		12/12/24 15:33	12/13/24 14:15	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:33	12/13/24 14:15	1
Arsenic	**0.37**	**J**	1.0	0.23	ug/L		12/12/24 15:33	12/13/24 14:15	1
Barium	**32**		2.5	0.73	ug/L		12/12/24 15:33	12/13/24 14:15	1
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:33	12/16/24 14:56	1
Boron	**71**	**B**	50	13	ug/L		12/12/24 15:33	12/16/24 14:56	1
Cadmium	<0.17		0.50	0.17	ug/L		12/12/24 15:33	12/13/24 14:15	1
Calcium	**21000**		200	44	ug/L		12/12/24 15:33	12/16/24 14:56	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:33	12/13/24 14:15	1
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:33	12/13/24 14:15	1
Copper	**3.8**		2.0	0.50	ug/L		12/12/24 15:33	12/13/24 14:15	1
Iron	**260**		100	47	ug/L		12/12/24 15:33	12/13/24 14:15	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:33	12/13/24 14:15	1
Lithium	<2.5	^5-	10	2.5	ug/L		12/12/24 15:33	12/13/24 14:15	1
Magnesium	**4300**		200	49	ug/L		12/12/24 15:33	12/13/24 14:15	1
Manganese	**34**		2.5	0.79	ug/L		12/12/24 15:33	12/13/24 14:15	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/12/24 15:33	12/13/24 14:15	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:33	12/13/24 14:15	1
Potassium	**2400**		500	110	ug/L		12/12/24 15:33	12/13/24 14:15	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:33	12/13/24 14:15	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:33	12/13/24 14:15	1
Sodium	**7800**		200	77	ug/L		12/12/24 15:33	12/13/24 14:15	1
Strontium	**150**		4.0	0.64	ug/L		12/12/24 15:33	12/13/24 14:15	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:33	12/13/24 14:15	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:33	12/13/24 14:15	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:33	12/13/24 14:15	1
Zinc	<6.9		20	6.9	ug/L		12/12/24 15:33	12/13/24 14:15	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: NTC-01_20241202

Date Collected: 12/02/24 10:40
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-7

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/12/24 15:28	12/13/24 16:03	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:28	12/13/24 16:03	1
Arsenic	**0.36**	**J**	1.0	0.23	ug/L		12/12/24 15:28	12/13/24 16:03	1
Barium	**30**		2.5	0.73	ug/L		12/12/24 15:28	12/13/24 16:03	1
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:28	12/13/24 16:03	1
Boron	**60**	**B**	50	13	ug/L		12/12/24 15:28	12/13/24 16:03	1
Cadmium	<0.17		0.50	0.17	ug/L		12/12/24 15:28	12/13/24 16:03	1
Calcium	**20000**		200	44	ug/L		12/12/24 15:28	12/16/24 15:29	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:28	12/13/24 16:03	1
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:28	12/13/24 16:03	1
Copper	**3.5**		2.0	0.50	ug/L		12/12/24 15:28	12/13/24 16:03	1
Iron	**150**		100	47	ug/L		12/12/24 15:28	12/13/24 16:03	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:28	12/13/24 16:03	1
Lithium	<2.5	^5-	10	2.5	ug/L		12/12/24 15:28	12/13/24 16:03	1
Magnesium	**4200**		200	49	ug/L		12/12/24 15:28	12/13/24 16:03	1
Manganese	**32**		2.5	0.79	ug/L		12/12/24 15:28	12/13/24 16:03	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/12/24 15:28	12/13/24 16:03	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:28	12/13/24 16:03	1
Potassium	**2300**		500	110	ug/L		12/12/24 15:28	12/13/24 16:03	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:28	12/13/24 16:03	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:28	12/13/24 16:03	1
Sodium	**7600**		200	77	ug/L		12/12/24 15:28	12/13/24 16:03	1
Strontium	**140**		4.0	0.64	ug/L		12/12/24 15:28	12/13/24 16:03	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:28	12/13/24 16:03	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:28	12/13/24 16:03	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:28	12/13/24 16:03	1
Zinc	<6.9		20	6.9	ug/L		12/12/24 15:28	12/13/24 16:03	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**70**		0.91	0.46	mg/L		12/12/24 15:33	12/16/24 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.45		1.0	0.45	mg/L			12/04/24 17:00	1
Nitrate as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/04/24 17:00	1
Chloride (EPA 300.0)	**15**		1.0	0.42	mg/L			12/04/24 17:00	1
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/04/24 17:00	1
Fluoride (EPA 300.0)	<0.43		1.0	0.43	mg/L			12/04/24 17:00	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/04/24 17:00	1
Sulfate (EPA 300.0)	**2.5**		1.0	0.47	mg/L			12/04/24 17:00	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/05/24 13:27	12/05/24 15:43	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/18/24 14:37	12/18/24 16:51	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 10:55	1
Alkalinity (SM 2320B)	**64**	**B**	5.0	3.7	mg/L			12/13/24 16:07	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**64**	**B**	5.0	3.7	mg/L			12/13/24 16:07	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/13/24 16:07	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/08/24 14:12	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: NTC-01_20241202
Date Collected: 12/02/24 10:40
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-7
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**90**		10	4.3	mg/L			12/06/24 02:15	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			12/05/24 10:18	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			12/09/24 23:38	1
Total Organic Carbon (SM 5310C)	**8.9**		1.0	0.47	mg/L			12/08/24 18:22	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**8.8**		1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: NTC-01_20241202_FBLL
Date Collected: 12/02/24 10:40
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-8
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30	J	0.50	0.20	ng/L			12/12/24 18:27	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: NB2-3_20241202

Date Collected: 12/02/24 17:15
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-9

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/12/24 10:23	12/12/24 23:59	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/12/24 10:23	12/13/24 00:09	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.70**		0.50	0.20	ng/L			12/12/24 18:31	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.71**		0.50	0.20	ng/L			12/12/24 20:07	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.016**	**J B**	0.050	0.0098	ug/L		12/26/24 12:54	12/27/24 19:29	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.020**	**J B**	0.050	0.0098	ug/L		12/26/24 12:54	12/27/24 19:32	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/12/24 15:33	12/13/24 14:18	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:33	12/13/24 14:18	1
Arsenic	**7.3**		1.0	0.23	ug/L		12/12/24 15:33	12/13/24 14:18	1
Barium	**160**		2.5	0.73	ug/L		12/12/24 15:33	12/13/24 14:18	1
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:33	12/16/24 14:59	1
Boron	**1700**	**B**	50	13	ug/L		12/12/24 15:33	12/16/24 14:59	1
Cadmium	<0.17		0.50	0.17	ug/L		12/12/24 15:33	12/13/24 14:18	1
Calcium	**20000**		200	44	ug/L		12/12/24 15:33	12/16/24 14:59	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:33	12/13/24 14:18	1
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:33	12/13/24 14:18	1
Copper	**0.99**	**J**	2.0	0.50	ug/L		12/12/24 15:33	12/13/24 14:18	1
Iron	**460**		100	47	ug/L		12/12/24 15:33	12/13/24 14:18	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:33	12/13/24 14:18	1
Lithium	**7.6**	**J ^5-**	10	2.5	ug/L		12/12/24 15:33	12/13/24 14:18	1
Magnesium	**2100**		200	49	ug/L		12/12/24 15:33	12/13/24 14:18	1
Manganese	**94**		2.5	0.79	ug/L		12/12/24 15:33	12/13/24 14:18	1
Molybdenum	**170**		5.0	2.5	ug/L		12/12/24 15:33	12/13/24 14:18	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:33	12/13/24 14:18	1
Potassium	**8100**		500	110	ug/L		12/12/24 15:33	12/13/24 14:18	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:33	12/13/24 14:18	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:33	12/13/24 14:18	1
Sodium	**200000**		200	77	ug/L		12/12/24 15:33	12/13/24 14:18	1
Strontium	**260**		4.0	0.64	ug/L		12/12/24 15:33	12/13/24 14:18	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:33	12/13/24 14:18	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:33	12/13/24 14:18	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:33	12/13/24 14:18	1
Zinc	<6.9		20	6.9	ug/L		12/12/24 15:33	12/13/24 14:18	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: NB2-3_20241202

Date Collected: 12/02/24 17:15
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-9

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/12/24 15:28	12/13/24 16:06	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:28	12/13/24 16:06	1
Arsenic	**6.4**		1.0	0.23	ug/L		12/12/24 15:28	12/13/24 16:06	1
Barium	**150**		2.5	0.73	ug/L		12/12/24 15:28	12/13/24 16:06	1
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:28	12/13/24 16:06	1
Boron	**1600**	**B**	50	13	ug/L		12/12/24 15:28	12/13/24 16:06	1
Cadmium	<0.17		0.50	0.17	ug/L		12/12/24 15:28	12/13/24 16:06	1
Calcium	**20000**		200	44	ug/L		12/12/24 15:28	12/16/24 15:32	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:28	12/13/24 16:06	1
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:28	12/13/24 16:06	1
Copper	**0.75**	**J**	2.0	0.50	ug/L		12/12/24 15:28	12/13/24 16:06	1
Iron	**130**		100	47	ug/L		12/12/24 15:28	12/13/24 16:06	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:28	12/13/24 16:06	1
Lithium	**7.2**	**J ^5-**	10	2.5	ug/L		12/12/24 15:28	12/13/24 16:06	1
Magnesium	**2000**		200	49	ug/L		12/12/24 15:28	12/13/24 16:06	1
Manganese	**98**		2.5	0.79	ug/L		12/12/24 15:28	12/13/24 16:06	1
Molybdenum	**170**		5.0	2.5	ug/L		12/12/24 15:28	12/13/24 16:06	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:28	12/13/24 16:06	1
Potassium	**8000**		500	110	ug/L		12/12/24 15:28	12/13/24 16:06	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:28	12/13/24 16:06	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:28	12/13/24 16:06	1
Sodium	**200000**		200	77	ug/L		12/12/24 15:28	12/13/24 16:06	1
Strontium	**260**		4.0	0.64	ug/L		12/12/24 15:28	12/13/24 16:06	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:28	12/13/24 16:06	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:28	12/13/24 16:06	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:28	12/13/24 16:06	1
Zinc	<6.9		20	6.9	ug/L		12/12/24 15:28	12/13/24 16:06	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**59**		0.91	0.46	mg/L		12/12/24 15:33	12/16/24 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**2.5**		1.0	0.45	mg/L			12/04/24 17:16	1
Nitrate as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/04/24 17:16	1
Chloride (EPA 300.0)	**250**		10	4.2	mg/L			12/13/24 14:45	10
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/04/24 17:16	1
Fluoride (EPA 300.0)	**0.54**	**J**	1.0	0.43	mg/L			12/04/24 17:16	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/04/24 17:16	1
Sulfate (EPA 300.0)	<0.47		1.0	0.47	mg/L			12/04/24 17:16	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/05/24 13:27	12/05/24 15:45	1
Ammonia (EPA 350.1)	**0.12**	**J**	0.20	0.10	mg/L		12/18/24 14:37	12/18/24 16:51	1
Phosphorus as P (EPA 365.1)	**0.14**		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 10:55	1
Alkalinity (SM 2320B)	**150**	**B**	5.0	3.7	mg/L			12/09/24 13:10	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**150**	**B**	5.0	3.7	mg/L			12/09/24 13:10	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 13:10	1
Salinity (SM 2520B)	**0.40**		0.33	0.33	psu			12/08/24 14:12	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: NB2-3_20241202
Date Collected: 12/02/24 17:15
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-9
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	620		10	4.3	mg/L			12/06/24 02:18	1
Total Suspended Solids (SM 2540D)	5.6		5.0	1.9	mg/L			12/05/24 10:20	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			12/09/24 23:42	1
Total Organic Carbon (SM 5310C)	4.2		1.0	0.47	mg/L			12/08/24 18:50	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	4.2		1.0	0.47	mg/L			12/11/24 07:30	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: NB2-3_20241202_FBLL
Date Collected: 12/02/24 17:15
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-10
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/12/24 18:35	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: NB2-1_20241202

Date Collected: 12/02/24 16:20
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-11

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 19:38	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 19:48	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.31**	**J**	0.50	0.20	ng/L			12/12/24 18:48	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.26**	**J**	0.50	0.20	ng/L			12/12/24 20:11	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.12**	**B**	0.050	0.0098	ug/L		12/26/24 12:54	12/27/24 19:35	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.13**	**B**	0.050	0.0098	ug/L		12/26/24 12:54	12/27/24 19:38	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/12/24 15:33	12/13/24 14:25	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:33	12/13/24 14:25	1
Arsenic	**0.40**	**J**	1.0	0.23	ug/L		12/12/24 15:33	12/13/24 14:25	1
Barium	**1200**		2.5	0.73	ug/L		12/12/24 15:33	12/13/24 14:25	1
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:33	12/16/24 15:02	1
Boron	**730**	**B**	50	13	ug/L		12/12/24 15:33	12/16/24 15:02	1
Cadmium	<0.17		0.50	0.17	ug/L		12/12/24 15:33	12/13/24 14:25	1
Calcium	**130000**		200	44	ug/L		12/12/24 15:33	12/16/24 15:02	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:33	12/13/24 14:25	1
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:33	12/13/24 14:25	1
Copper	<0.50		2.0	0.50	ug/L		12/12/24 15:33	12/13/24 14:25	1
Iron	**47**	**J**	100	47	ug/L		12/12/24 15:33	12/13/24 14:25	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:33	12/13/24 14:25	1
Lithium	**43**	**^5-**	10	2.5	ug/L		12/12/24 15:33	12/13/24 14:25	1
Magnesium	**38000**		200	49	ug/L		12/12/24 15:33	12/13/24 14:25	1
Manganese	**750**		2.5	0.79	ug/L		12/12/24 15:33	12/13/24 14:25	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/12/24 15:33	12/13/24 14:25	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:33	12/13/24 14:25	1
Potassium	**16000**		500	110	ug/L		12/12/24 15:33	12/13/24 14:25	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:33	12/13/24 14:25	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:33	12/13/24 14:25	1
Sodium	**85000**		200	77	ug/L		12/12/24 15:33	12/13/24 14:25	1
Strontium	**2000**		4.0	0.64	ug/L		12/12/24 15:33	12/13/24 14:25	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:33	12/13/24 14:25	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:33	12/13/24 14:25	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:33	12/13/24 14:25	1
Zinc	<6.9		20	6.9	ug/L		12/12/24 15:33	12/13/24 14:25	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: NB2-1_20241202

Date Collected: 12/02/24 16:20
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-11

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/12/24 15:28	12/13/24 16:08	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:28	12/13/24 16:08	1
Arsenic	**0.38**	**J**	1.0	0.23	ug/L		12/12/24 15:28	12/13/24 16:08	1
Barium	**1600**		2.5	0.73	ug/L		12/12/24 15:28	12/13/24 16:08	1
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:28	12/13/24 16:08	1
Boron	**690**	**B**	50	13	ug/L		12/12/24 15:28	12/13/24 16:08	1
Cadmium	<0.17		0.50	0.17	ug/L		12/12/24 15:28	12/13/24 16:08	1
Calcium	**130000**		200	44	ug/L		12/12/24 15:28	12/16/24 15:34	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:28	12/13/24 16:08	1
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:28	12/13/24 16:08	1
Copper	<0.50		2.0	0.50	ug/L		12/12/24 15:28	12/13/24 16:08	1
Iron	<47		100	47	ug/L		12/12/24 15:28	12/13/24 16:08	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:28	12/13/24 16:08	1
Lithium	**42**	**^5-**	10	2.5	ug/L		12/12/24 15:28	12/13/24 16:08	1
Magnesium	**37000**		200	49	ug/L		12/12/24 15:28	12/13/24 16:08	1
Manganese	**770**		2.5	0.79	ug/L		12/12/24 15:28	12/13/24 16:08	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/12/24 15:28	12/13/24 16:08	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:28	12/13/24 16:08	1
Potassium	**16000**		500	110	ug/L		12/12/24 15:28	12/13/24 16:08	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:28	12/13/24 16:08	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:28	12/13/24 16:08	1
Sodium	**86000**		200	77	ug/L		12/12/24 15:28	12/13/24 16:08	1
Strontium	**2000**		4.0	0.64	ug/L		12/12/24 15:28	12/13/24 16:08	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:28	12/13/24 16:08	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:28	12/13/24 16:08	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:28	12/13/24 16:08	1
Zinc	<6.9		20	6.9	ug/L		12/12/24 15:28	12/13/24 16:08	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**490**		0.91	0.46	mg/L		12/12/24 15:33	12/16/24 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.91**	**J**	1.0	0.45	mg/L			12/04/24 17:31	1
Nitrate as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/04/24 17:31	1
Chloride (EPA 300.0)	**130**		1.0	0.42	mg/L			12/04/24 12:14	1
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/04/24 17:31	1
Fluoride (EPA 300.0)	<0.43		1.0	0.43	mg/L			12/04/24 17:31	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/04/24 17:31	1
Sulfate (EPA 300.0)	**58**		10	4.7	mg/L			12/13/24 15:02	10
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/05/24 13:27	12/05/24 15:54	1
Ammonia (EPA 350.1)	**0.39**		0.20	0.10	mg/L		12/18/24 14:37	12/18/24 16:52	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 10:56	1
Alkalinity (SM 2320B)	**430**	**B**	5.0	3.7	mg/L			12/09/24 13:19	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**430**	**B**	5.0	3.7	mg/L			12/09/24 13:19	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 13:19	1
Salinity (SM 2520B)	**0.48**		0.33	0.33	psu			12/08/24 14:12	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: NB2-1_20241202
Date Collected: 12/02/24 16:20
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-11
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**760**		10	4.3	mg/L			12/06/24 02:20	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			12/05/24 10:21	1
Sulfide (SM 4500 S2 F)	**2.5**		1.0	0.23	mg/L			12/09/24 23:45	1
Total Organic Carbon (SM 5310C)	**6.6**		1.0	0.47	mg/L			12/08/24 20:14	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**6.6**		1.0	0.47	mg/L			12/11/24 07:30	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: NB2-1_20241202_FBLL
Date Collected: 12/02/24 16:20
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-12
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/12/24 18:52	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: MLC-01_20241202

Date Collected: 12/02/24 15:10
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-13

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 18:36	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 19:58	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.88**		0.50	0.20	ng/L			12/12/24 19:42	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.70**		0.50	0.20	ng/L			12/12/24 20:15	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.20**	**B**	0.050	0.0098	ug/L		12/26/24 12:54	12/27/24 19:41	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.19**	**B**	0.050	0.0098	ug/L		12/26/24 12:54	12/27/24 19:44	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**39**	**J**	100	25	ug/L		12/12/24 15:33	12/13/24 14:28	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:33	12/13/24 14:28	1
Arsenic	<0.23		1.0	0.23	ug/L		12/12/24 15:33	12/13/24 14:28	1
Barium	**71**		2.5	0.73	ug/L		12/12/24 15:33	12/13/24 14:28	1
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:33	12/16/24 15:04	1
Boron	**59**	**B**	50	13	ug/L		12/12/24 15:33	12/16/24 15:04	1
Cadmium	<0.17		0.50	0.17	ug/L		12/12/24 15:33	12/13/24 14:28	1
Calcium	**26000**		200	44	ug/L		12/12/24 15:33	12/16/24 15:04	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:33	12/13/24 14:28	1
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:33	12/13/24 14:28	1
Copper	**6.3**		2.0	0.50	ug/L		12/12/24 15:33	12/13/24 14:28	1
Iron	**96**	**J**	100	47	ug/L		12/12/24 15:33	12/13/24 14:28	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:33	12/13/24 14:28	1
Lithium	<2.5	^5-	10	2.5	ug/L		12/12/24 15:33	12/13/24 14:28	1
Magnesium	**6100**		200	49	ug/L		12/12/24 15:33	12/13/24 14:28	1
Manganese	**6.9**		2.5	0.79	ug/L		12/12/24 15:33	12/13/24 14:28	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/12/24 15:33	12/13/24 14:28	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:33	12/13/24 14:28	1
Potassium	**1600**		500	110	ug/L		12/12/24 15:33	12/13/24 14:28	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:33	12/13/24 14:28	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:33	12/13/24 14:28	1
Sodium	**7900**		200	77	ug/L		12/12/24 15:33	12/13/24 14:28	1
Strontium	**150**		4.0	0.64	ug/L		12/12/24 15:33	12/13/24 14:28	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:33	12/13/24 14:28	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:33	12/13/24 14:28	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:33	12/13/24 14:28	1
Zinc	<6.9		20	6.9	ug/L		12/12/24 15:33	12/13/24 14:28	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: MLC-01_20241202

Date Collected: 12/02/24 15:10
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-13

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/12/24 15:28	12/13/24 16:14	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:28	12/13/24 16:14	1
Arsenic	<0.23		1.0	0.23	ug/L		12/12/24 15:28	12/13/24 16:14	1
Barium	**69**		2.5	0.73	ug/L		12/12/24 15:28	12/13/24 16:14	1
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:28	12/13/24 16:14	1
Boron	**47**	**J B**	50	13	ug/L		12/12/24 15:28	12/13/24 16:14	1
Cadmium	<0.17		0.50	0.17	ug/L		12/12/24 15:28	12/13/24 16:14	1
Calcium	**26000**		200	44	ug/L		12/12/24 15:28	12/16/24 15:37	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:28	12/13/24 16:14	1
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:28	12/13/24 16:14	1
Copper	**5.8**		2.0	0.50	ug/L		12/12/24 15:28	12/13/24 16:14	1
Iron	**48**	**J**	100	47	ug/L		12/12/24 15:28	12/13/24 16:14	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:28	12/13/24 16:14	1
Lithium	<2.5	^5-	10	2.5	ug/L		12/12/24 15:28	12/13/24 16:14	1
Magnesium	**6000**		200	49	ug/L		12/12/24 15:28	12/13/24 16:14	1
Manganese	**6.2**		2.5	0.79	ug/L		12/12/24 15:28	12/13/24 16:14	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/12/24 15:28	12/13/24 16:14	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:28	12/13/24 16:14	1
Potassium	**1600**		500	110	ug/L		12/12/24 15:28	12/13/24 16:14	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:28	12/13/24 16:14	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:28	12/13/24 16:14	1
Sodium	**7800**		200	77	ug/L		12/12/24 15:28	12/13/24 16:14	1
Strontium	**150**		4.0	0.64	ug/L		12/12/24 15:28	12/13/24 16:14	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:28	12/13/24 16:14	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:28	12/13/24 16:14	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:28	12/13/24 16:14	1
Zinc	<6.9		20	6.9	ug/L		12/12/24 15:28	12/13/24 16:14	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**89**		0.91	0.46	mg/L		12/12/24 15:33	12/16/24 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.45		1.0	0.45	mg/L			12/04/24 17:47	1
Nitrate as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/04/24 17:47	1
Chloride (EPA 300.0)	**38**		1.0	0.42	mg/L			12/04/24 17:47	1
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/04/24 17:47	1
Fluoride (EPA 300.0)	<0.43		1.0	0.43	mg/L			12/04/24 17:47	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/04/24 17:47	1
Sulfate (EPA 300.0)	**7.7**		1.0	0.47	mg/L			12/04/24 17:47	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/05/24 13:27	12/05/24 15:56	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/18/24 14:37	12/18/24 16:52	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 10:57	1
Alkalinity (SM 2320B)	**57**	**B**	5.0	3.7	mg/L			12/13/24 16:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**57**	**B**	5.0	3.7	mg/L			12/13/24 16:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/13/24 16:15	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/08/24 14:12	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: MLC-01_20241202
Date Collected: 12/02/24 15:10
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-13
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**150**		10	4.3	mg/L			12/06/24 02:23	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			12/05/24 10:23	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			12/09/24 23:49	1
Total Organic Carbon (SM 5310C)	**5.1**		1.0	0.47	mg/L			12/08/24 20:42	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**5.1**		1.0	0.47	mg/L			12/11/24 07:30	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: MLC-01_20241202-FBLL
Date Collected: 12/02/24 15:10
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-14
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/12/24 19:46	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Qualifiers

Metals

Qualifier	Qualifier Description
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 3845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Dissolved	Water	1630	
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	1630	
500-260921-3	MLR-03_20241202	Dissolved	Water	1630	
500-260921-3	MLR-03_20241202	Total/NA	Water	1630	
500-260921-5	PRC-02_20241202	Dissolved	Water	1630	
500-260921-5	PRC-02_20241202	Total/NA	Water	1630	
500-260921-7	NTC-01_20241202	Dissolved	Water	1630	
500-260921-7	NTC-01_20241202	Total/NA	Water	1630	
500-260921-9	NB2-3_20241202	Dissolved	Water	1630	
500-260921-9	NB2-3_20241202	Total/NA	Water	1630	
MB 350-3845/1-A	Method Blank	Total/NA	Water	1630	
MB 350-3845/2-A	Method Blank	Total/NA	Water	1630	
MB 350-3845/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-3845/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-3845/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Prep Batch: 3869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-11	NB2-1_20241202	Dissolved	Water	1630	
500-260921-11	NB2-1_20241202	Total/NA	Water	1630	
500-260921-13	MLC-01_20241202	Dissolved	Water	1630	
500-260921-13	MLC-01_20241202	Total/NA	Water	1630	
MB 350-3869/1-A	Method Blank	Total/NA	Water	1630	
MB 350-3869/2-A	Method Blank	Total/NA	Water	1630	
MB 350-3869/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-3869/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-3869/5-A	Lab Control Sample Dup	Total/NA	Water	1630	
500-260921-13 MS	MLC-01_20241202	Total/NA	Water	1630	
500-260921-13 MSD	MLC-01_20241202	Total/NA	Water	1630	

Analysis Batch: 3870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Dissolved	Water	1630	3845
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	1630	3845
500-260921-3	MLR-03_20241202	Dissolved	Water	1630	3845
500-260921-3	MLR-03_20241202	Total/NA	Water	1630	3845
500-260921-5	PRC-02_20241202	Dissolved	Water	1630	3845
500-260921-5	PRC-02_20241202	Total/NA	Water	1630	3845
500-260921-7	NTC-01_20241202	Dissolved	Water	1630	3845
500-260921-7	NTC-01_20241202	Total/NA	Water	1630	3845
500-260921-9	NB2-3_20241202	Dissolved	Water	1630	3845
500-260921-9	NB2-3_20241202	Total/NA	Water	1630	3845
MB 350-3845/1-A	Method Blank	Total/NA	Water	1630	3845
MB 350-3845/2-A	Method Blank	Total/NA	Water	1630	3845
MB 350-3845/3-A	Method Blank	Total/NA	Water	1630	3845
LCS 350-3845/4-A	Lab Control Sample	Total/NA	Water	1630	3845
LCSD 350-3845/5-A	Lab Control Sample Dup	Total/NA	Water	1630	3845

Analysis Batch: 3882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Dissolved	Water	1631E	

Metals (Continued)

Analysis Batch: 3882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	1631E	
500-260921-2	DUP-01-SW_20241202_FBLL	Total/NA	Water	1631E	
500-260921-3	MLR-03_20241202	Dissolved	Water	1631E	
500-260921-3	MLR-03_20241202	Total/NA	Water	1631E	
500-260921-4	MLR-03_20241202_FBLL	Total/NA	Water	1631E	
500-260921-5	PRC-02_20241202	Dissolved	Water	1631E	
500-260921-5	PRC-02_20241202	Total/NA	Water	1631E	
500-260921-6	PRC-02_20241202_FBLL	Total/NA	Water	1631E	
500-260921-7	NTC-01_20241202	Dissolved	Water	1631E	
500-260921-7	NTC-01_20241202	Total/NA	Water	1631E	
500-260921-8	NTC-01_20241202_FBLL	Total/NA	Water	1631E	
500-260921-9	NB2-3_20241202	Dissolved	Water	1631E	
500-260921-9	NB2-3_20241202	Total/NA	Water	1631E	
500-260921-10	NB2-3_20241202_FBLL	Total/NA	Water	1631E	
500-260921-11	NB2-1_20241202	Dissolved	Water	1631E	
500-260921-11	NB2-1_20241202	Total/NA	Water	1631E	
500-260921-12	NB2-1_20241202_FBLL	Total/NA	Water	1631E	
500-260921-13	MLC-01_20241202	Dissolved	Water	1631E	
500-260921-13	MLC-01_20241202	Total/NA	Water	1631E	
500-260921-14	MLC-01_20241202-FBLL	Total/NA	Water	1631E	
MB 350-3882/27	Method Blank	Total/NA	Water	1631E	
MB 350-3882/28	Method Blank	Total/NA	Water	1631E	
MB 350-3882/29	Method Blank	Total/NA	Water	1631E	
MB 350-3882/30	Method Blank	Total/NA	Water	1631E	
MB 350-3882/31	Method Blank	Total/NA	Water	1631E	
MB 350-3882/32	Method Blank	Total/NA	Water	1631E	
LCS 350-3882/41	Lab Control Sample	Total/NA	Water	1631E	
LCS 350-3882/49	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-3882/42	Lab Control Sample Dup	Total/NA	Water	1631E	
LCSD 350-3882/50	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 3916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-11	NB2-1_20241202	Dissolved	Water	1630	3869
500-260921-11	NB2-1_20241202	Total/NA	Water	1630	3869
500-260921-13	MLC-01_20241202	Dissolved	Water	1630	3869
500-260921-13	MLC-01_20241202	Total/NA	Water	1630	3869
MB 350-3869/1-A	Method Blank	Total/NA	Water	1630	3869
MB 350-3869/2-A	Method Blank	Total/NA	Water	1630	3869
MB 350-3869/3-A	Method Blank	Total/NA	Water	1630	3869
LCS 350-3869/4-A	Lab Control Sample	Total/NA	Water	1630	3869
LCSD 350-3869/5-A	Lab Control Sample Dup	Total/NA	Water	1630	3869
500-260921-13 MS	MLC-01_20241202	Total/NA	Water	1630	3869
500-260921-13 MSD	MLC-01_20241202	Total/NA	Water	1630	3869

Prep Batch: 4098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-7	NTC-01_20241202	Dissolved	Water	1638	
500-260921-7	NTC-01_20241202	Total Recoverable	Water	1638	
500-260921-9	NB2-3_20241202	Dissolved	Water	1638	
500-260921-9	NB2-3_20241202	Total Recoverable	Water	1638	

Metals (Continued)

Prep Batch: 4098 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-11	NB2-1_20241202	Dissolved	Water	1638	
500-260921-11	NB2-1_20241202	Total Recoverable	Water	1638	
500-260921-13	MLC-01_20241202	Dissolved	Water	1638	
500-260921-13	MLC-01_20241202	Total Recoverable	Water	1638	
MB 350-4098/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-4098/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-4098/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-4098/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Prep Batch: 4099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Dissolved	Water	1638	
500-260921-1	DUP-01-SW_20241202	Total Recoverable	Water	1638	
500-260921-3	MLR-03_20241202	Total Recoverable	Water	1638	
MB 350-4099/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-4099/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-4099/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-4099/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Prep Batch: 4100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-3	MLR-03_20241202	Dissolved	Water	1638	
500-260921-5	PRC-02_20241202	Dissolved	Water	1638	
500-260921-5	PRC-02_20241202	Total Recoverable	Water	1638	
MB 350-4100/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-4100/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-4100/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-4100/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-260921-5 MS	PRC-02_20241202	Total Recoverable	Water	1638	
500-260921-5 MSD	PRC-02_20241202	Total Recoverable	Water	1638	

Analysis Batch: 4209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-7	NTC-01_20241202	Dissolved	Water	1638	4098
500-260921-7	NTC-01_20241202	Total Recoverable	Water	1638	4098
500-260921-9	NB2-3_20241202	Dissolved	Water	1638	4098
500-260921-9	NB2-3_20241202	Total Recoverable	Water	1638	4098
500-260921-11	NB2-1_20241202	Dissolved	Water	1638	4098
500-260921-11	NB2-1_20241202	Total Recoverable	Water	1638	4098
500-260921-13	MLC-01_20241202	Dissolved	Water	1638	4098
500-260921-13	MLC-01_20241202	Total Recoverable	Water	1638	4098
MB 350-4098/1-A	Method Blank	Total Recoverable	Water	1638	4098
MB 350-4098/2-A	Method Blank	Total Recoverable	Water	1638	4098
MB 350-4099/1-A	Method Blank	Total Recoverable	Water	1638	4099
MB 350-4099/2-A	Method Blank	Total Recoverable	Water	1638	4099
LCS 350-4098/3-A	Lab Control Sample	Total Recoverable	Water	1638	4098
LCS 350-4099/3-A	Lab Control Sample	Total Recoverable	Water	1638	4099
LCSD 350-4098/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	4098
LCSD 350-4099/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	4099

Metals

Analysis Batch: 4216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Dissolved	Water	1638	4099
500-260921-1	DUP-01-SW_20241202	Total Recoverable	Water	1638	4099
500-260921-3	MLR-03_20241202	Dissolved	Water	1638	4100
500-260921-3	MLR-03_20241202	Total Recoverable	Water	1638	4099
500-260921-5	PRC-02_20241202	Dissolved	Water	1638	4100
500-260921-5	PRC-02_20241202	Total Recoverable	Water	1638	4100
MB 350-4100/1-A	Method Blank	Total Recoverable	Water	1638	4100
MB 350-4100/2-A	Method Blank	Total Recoverable	Water	1638	4100
LCS 350-4100/3-A	Lab Control Sample	Total Recoverable	Water	1638	4100
LCSD 350-4100/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	4100
500-260921-5 MS	PRC-02_20241202	Total Recoverable	Water	1638	4100
500-260921-5 MSD	PRC-02_20241202	Total Recoverable	Water	1638	4100

Prep Batch: 799201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Dissolved	Water	3005A	
500-260921-3	MLR-03_20241202	Dissolved	Water	3005A	
500-260921-5	PRC-02_20241202	Dissolved	Water	3005A	
500-260921-7	NTC-01_20241202	Dissolved	Water	3005A	
500-260921-9	NB2-3_20241202	Dissolved	Water	3005A	
500-260921-11	NB2-1_20241202	Dissolved	Water	3005A	
500-260921-13	MLC-01_20241202	Dissolved	Water	3005A	
MB 500-799201/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-799201/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 799202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total Recoverable	Water	3005A	
500-260921-3	MLR-03_20241202	Total Recoverable	Water	3005A	
500-260921-5	PRC-02_20241202	Total Recoverable	Water	3005A	
500-260921-7	NTC-01_20241202	Total Recoverable	Water	3005A	
500-260921-9	NB2-3_20241202	Total Recoverable	Water	3005A	
500-260921-11	NB2-1_20241202	Total Recoverable	Water	3005A	
500-260921-13	MLC-01_20241202	Total Recoverable	Water	3005A	
MB 500-799202/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-799202/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 799507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Dissolved	Water	6020B	799201
500-260921-1	DUP-01-SW_20241202	Total Recoverable	Water	6020B	799202
500-260921-3	MLR-03_20241202	Dissolved	Water	6020B	799201
500-260921-3	MLR-03_20241202	Total Recoverable	Water	6020B	799202
500-260921-5	PRC-02_20241202	Dissolved	Water	6020B	799201
500-260921-5	PRC-02_20241202	Total Recoverable	Water	6020B	799202
500-260921-7	NTC-01_20241202	Dissolved	Water	6020B	799201
500-260921-7	NTC-01_20241202	Total Recoverable	Water	6020B	799202
500-260921-9	NB2-3_20241202	Dissolved	Water	6020B	799201
500-260921-9	NB2-3_20241202	Total Recoverable	Water	6020B	799202
500-260921-11	NB2-1_20241202	Dissolved	Water	6020B	799201
500-260921-11	NB2-1_20241202	Total Recoverable	Water	6020B	799202

Metals (Continued)

Analysis Batch: 799507 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-13	MLC-01_20241202	Dissolved	Water	6020B	799201
500-260921-13	MLC-01_20241202	Total Recoverable	Water	6020B	799202
MB 500-799201/1-A	Method Blank	Total Recoverable	Water	6020B	799201
MB 500-799202/1-A	Method Blank	Total Recoverable	Water	6020B	799202
LCS 500-799201/2-A	Lab Control Sample	Total Recoverable	Water	6020B	799201
LCS 500-799202/2-A	Lab Control Sample	Total Recoverable	Water	6020B	799202

Analysis Batch: 799553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total Recoverable	Water	SM 2340B	799202
500-260921-3	MLR-03_20241202	Total Recoverable	Water	SM 2340B	799202
500-260921-5	PRC-02_20241202	Total Recoverable	Water	SM 2340B	799202
500-260921-7	NTC-01_20241202	Total Recoverable	Water	SM 2340B	799202
500-260921-9	NB2-3_20241202	Total Recoverable	Water	SM 2340B	799202
500-260921-11	NB2-1_20241202	Total Recoverable	Water	SM 2340B	799202
500-260921-13	MLC-01_20241202	Total Recoverable	Water	SM 2340B	799202

Analysis Batch: 799688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Dissolved	Water	6020B	799201
500-260921-1	DUP-01-SW_20241202	Total Recoverable	Water	6020B	799202
500-260921-3	MLR-03_20241202	Dissolved	Water	6020B	799201
500-260921-3	MLR-03_20241202	Total Recoverable	Water	6020B	799202
500-260921-5	PRC-02_20241202	Dissolved	Water	6020B	799201
500-260921-5	PRC-02_20241202	Total Recoverable	Water	6020B	799202
500-260921-7	NTC-01_20241202	Dissolved	Water	6020B	799201
500-260921-7	NTC-01_20241202	Total Recoverable	Water	6020B	799202
500-260921-9	NB2-3_20241202	Dissolved	Water	6020B	799201
500-260921-9	NB2-3_20241202	Total Recoverable	Water	6020B	799202
500-260921-11	NB2-1_20241202	Dissolved	Water	6020B	799201
500-260921-11	NB2-1_20241202	Total Recoverable	Water	6020B	799202
500-260921-13	MLC-01_20241202	Dissolved	Water	6020B	799201
500-260921-13	MLC-01_20241202	Total Recoverable	Water	6020B	799202
MB 500-799201/1-A	Method Blank	Total Recoverable	Water	6020B	799201
MB 500-799202/1-A	Method Blank	Total Recoverable	Water	6020B	799202
LCS 500-799201/2-A	Lab Control Sample	Total Recoverable	Water	6020B	799201
LCS 500-799202/2-A	Lab Control Sample	Total Recoverable	Water	6020B	799202

General Chemistry

Analysis Batch: 797982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-5	PRC-02_20241202	Total/NA	Water	300.0	
500-260921-11	NB2-1_20241202	Total/NA	Water	300.0	
MB 500-797982/3	Method Blank	Total/NA	Water	300.0	
LCS 500-797982/18	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 798051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	300.0	
500-260921-3	MLR-03_20241202	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 798051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-5	PRC-02_20241202	Total/NA	Water	300.0	
500-260921-7	NTC-01_20241202	Total/NA	Water	300.0	
500-260921-9	NB2-3_20241202	Total/NA	Water	300.0	
500-260921-11	NB2-1_20241202	Total/NA	Water	300.0	
500-260921-13	MLC-01_20241202	Total/NA	Water	300.0	
MB 500-798051/3	Method Blank	Total/NA	Water	300.0	
LCS 500-798051/4	Lab Control Sample	Total/NA	Water	300.0	
500-260921-13 MS	MLC-01_20241202	Total/NA	Water	300.0	
500-260921-13 MSD	MLC-01_20241202	Total/NA	Water	300.0	

Analysis Batch: 798052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	300.0	
500-260921-3	MLR-03_20241202	Total/NA	Water	300.0	
500-260921-5	PRC-02_20241202	Total/NA	Water	300.0	
500-260921-7	NTC-01_20241202	Total/NA	Water	300.0	
500-260921-9	NB2-3_20241202	Total/NA	Water	300.0	
500-260921-11	NB2-1_20241202	Total/NA	Water	300.0	
500-260921-13	MLC-01_20241202	Total/NA	Water	300.0	
MB 500-798052/3	Method Blank	Total/NA	Water	300.0	
LCS 500-798052/4	Lab Control Sample	Total/NA	Water	300.0	
500-260921-13 MS	MLC-01_20241202	Total/NA	Water	300.0	
500-260921-13 MSD	MLC-01_20241202	Total/NA	Water	300.0	

Analysis Batch: 798151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	SM 2540D	
500-260921-3	MLR-03_20241202	Total/NA	Water	SM 2540D	
500-260921-5	PRC-02_20241202	Total/NA	Water	SM 2540D	
500-260921-7	NTC-01_20241202	Total/NA	Water	SM 2540D	
500-260921-9	NB2-3_20241202	Total/NA	Water	SM 2540D	
500-260921-11	NB2-1_20241202	Total/NA	Water	SM 2540D	
500-260921-13	MLC-01_20241202	Total/NA	Water	SM 2540D	
MB 500-798151/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-798151/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-260921-5 DU	PRC-02_20241202	Total/NA	Water	SM 2540D	

Prep Batch: 798221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	Distill/CN	
500-260921-3	MLR-03_20241202	Total/NA	Water	Distill/CN	
500-260921-5	PRC-02_20241202	Total/NA	Water	Distill/CN	
500-260921-7	NTC-01_20241202	Total/NA	Water	Distill/CN	
500-260921-9	NB2-3_20241202	Total/NA	Water	Distill/CN	
500-260921-11	NB2-1_20241202	Total/NA	Water	Distill/CN	
500-260921-13	MLC-01_20241202	Total/NA	Water	Distill/CN	
MB 500-798221/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-798221/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
500-260921-9 MS	NB2-3_20241202	Total/NA	Water	Distill/CN	
500-260921-9 MSD	NB2-3_20241202	Total/NA	Water	Distill/CN	

General Chemistry

Analysis Batch: 798261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	335.4	798221
500-260921-3	MLR-03_20241202	Total/NA	Water	335.4	798221
500-260921-5	PRC-02_20241202	Total/NA	Water	335.4	798221
500-260921-7	NTC-01_20241202	Total/NA	Water	335.4	798221
500-260921-9	NB2-3_20241202	Total/NA	Water	335.4	798221
500-260921-11	NB2-1_20241202	Total/NA	Water	335.4	798221
500-260921-13	MLC-01_20241202	Total/NA	Water	335.4	798221
MB 500-798221/1-A	Method Blank	Total/NA	Water	335.4	798221
LCS 500-798221/2-A	Lab Control Sample	Total/NA	Water	335.4	798221
500-260921-9 MS	NB2-3_20241202	Total/NA	Water	335.4	798221
500-260921-9 MSD	NB2-3_20241202	Total/NA	Water	335.4	798221

Analysis Batch: 798297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	SM 2540C	
500-260921-3	MLR-03_20241202	Total/NA	Water	SM 2540C	
500-260921-5	PRC-02_20241202	Total/NA	Water	SM 2540C	
500-260921-7	NTC-01_20241202	Total/NA	Water	SM 2540C	
500-260921-9	NB2-3_20241202	Total/NA	Water	SM 2540C	
500-260921-11	NB2-1_20241202	Total/NA	Water	SM 2540C	
500-260921-13	MLC-01_20241202	Total/NA	Water	SM 2540C	
MB 500-798297/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-798297/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 798314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	SM 4500 S2 F	
MB 500-798314/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-798314/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 798463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	SM 2520B	
500-260921-3	MLR-03_20241202	Total/NA	Water	SM 2520B	
500-260921-5	PRC-02_20241202	Total/NA	Water	SM 2520B	
500-260921-7	NTC-01_20241202	Total/NA	Water	SM 2520B	
500-260921-9	NB2-3_20241202	Total/NA	Water	SM 2520B	
500-260921-11	NB2-1_20241202	Total/NA	Water	SM 2520B	
500-260921-13	MLC-01_20241202	Total/NA	Water	SM 2520B	
500-260921-3 DU	MLR-03_20241202	Total/NA	Water	SM 2520B	

Analysis Batch: 798487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	SM 5310C	
500-260921-3	MLR-03_20241202	Total/NA	Water	SM 5310C	
500-260921-5	PRC-02_20241202	Total/NA	Water	SM 5310C	
500-260921-7	NTC-01_20241202	Total/NA	Water	SM 5310C	
500-260921-9	NB2-3_20241202	Total/NA	Water	SM 5310C	
500-260921-11	NB2-1_20241202	Total/NA	Water	SM 5310C	
500-260921-13	MLC-01_20241202	Total/NA	Water	SM 5310C	
MB 500-798487/7	Method Blank	Total/NA	Water	SM 5310C	

General Chemistry (Continued)

Analysis Batch: 798487 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-798487/8	Lab Control Sample	Total/NA	Water	SM 5310C	
500-260921-1 MS	DUP-01-SW_20241202	Total/NA	Water	SM 5310C	
500-260921-1 MSD	DUP-01-SW_20241202	Total/NA	Water	SM 5310C	

Prep Batch: 798546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	365.2/365.3/365	
500-260921-3	MLR-03_20241202	Total/NA	Water	365.2/365.3/365	
500-260921-5	PRC-02_20241202	Total/NA	Water	365.2/365.3/365	
500-260921-7	NTC-01_20241202	Total/NA	Water	365.2/365.3/365	
500-260921-9	NB2-3_20241202	Total/NA	Water	365.2/365.3/365	
500-260921-11	NB2-1_20241202	Total/NA	Water	365.2/365.3/365	
500-260921-13	MLC-01_20241202	Total/NA	Water	365.2/365.3/365	
MB 500-798546/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-798546/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 798664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-3	MLR-03_20241202	Total/NA	Water	SM 4500 S2 F	
500-260921-5	PRC-02_20241202	Total/NA	Water	SM 4500 S2 F	
500-260921-7	NTC-01_20241202	Total/NA	Water	SM 4500 S2 F	
500-260921-9	NB2-3_20241202	Total/NA	Water	SM 4500 S2 F	
500-260921-11	NB2-1_20241202	Total/NA	Water	SM 4500 S2 F	
500-260921-13	MLC-01_20241202	Total/NA	Water	SM 4500 S2 F	
MB 500-798664/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-798664/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 798878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Dissolved	Water	SM 5310C	
500-260921-3	MLR-03_20241202	Dissolved	Water	SM 5310C	
500-260921-5	PRC-02_20241202	Dissolved	Water	SM 5310C	
500-260921-7	NTC-01_20241202	Dissolved	Water	SM 5310C	
500-260921-9	NB2-3_20241202	Dissolved	Water	SM 5310C	
500-260921-11	NB2-1_20241202	Dissolved	Water	SM 5310C	
500-260921-13	MLC-01_20241202	Dissolved	Water	SM 5310C	
MB 500-798878/7	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-798878/8	Lab Control Sample	Dissolved	Water	SM 5310C	
500-260921-1 MS	DUP-01-SW_20241202	Dissolved	Water	SM 5310C	
500-260921-1 MSD	DUP-01-SW_20241202	Dissolved	Water	SM 5310C	

Analysis Batch: 798892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-3	MLR-03_20241202	Total/NA	Water	SM 2320B	
500-260921-5	PRC-02_20241202	Total/NA	Water	SM 2320B	
500-260921-9	NB2-3_20241202	Total/NA	Water	SM 2320B	
500-260921-11	NB2-1_20241202	Total/NA	Water	SM 2320B	
MB 500-798892/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-798892/4	Lab Control Sample	Total/NA	Water	SM 2320B	
500-260921-5 DU	PRC-02_20241202	Total/NA	Water	SM 2320B	

General Chemistry

Analysis Batch: 799196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-9	NB2-3_20241202	Total/NA	Water	300.0	
500-260921-11	NB2-1_20241202	Total/NA	Water	300.0	
MB 500-799196/3	Method Blank	Total/NA	Water	300.0	
LCS 500-799196/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 799336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	365.1	798546
500-260921-3	MLR-03_20241202	Total/NA	Water	365.1	798546
500-260921-5	PRC-02_20241202	Total/NA	Water	365.1	798546
500-260921-7	NTC-01_20241202	Total/NA	Water	365.1	798546
500-260921-9	NB2-3_20241202	Total/NA	Water	365.1	798546
500-260921-11	NB2-1_20241202	Total/NA	Water	365.1	798546
500-260921-13	MLC-01_20241202	Total/NA	Water	365.1	798546
MB 500-798546/1-A	Method Blank	Total/NA	Water	365.1	798546
LCS 500-798546/2-A	Lab Control Sample	Total/NA	Water	365.1	798546

Analysis Batch: 799502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	SM 2320B	
500-260921-7	NTC-01_20241202	Total/NA	Water	SM 2320B	
500-260921-13	MLC-01_20241202	Total/NA	Water	SM 2320B	
MB 500-799502/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-799502/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Prep Batch: 799773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	Distill/Ammonia	
MB 500-799773/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-799773/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Prep Batch: 799960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-3	MLR-03_20241202	Total/NA	Water	Distill/Ammonia	
500-260921-5	PRC-02_20241202	Total/NA	Water	Distill/Ammonia	
500-260921-7	NTC-01_20241202	Total/NA	Water	Distill/Ammonia	
500-260921-9	NB2-3_20241202	Total/NA	Water	Distill/Ammonia	
500-260921-11	NB2-1_20241202	Total/NA	Water	Distill/Ammonia	
500-260921-13	MLC-01_20241202	Total/NA	Water	Distill/Ammonia	
MB 500-799962/1-B	Method Blank	Total/NA	Water	Distill/Ammonia	799962
LCS 500-799962/2-B	Lab Control Sample	Total/NA	Water	Distill/Ammonia	799962

Filtration Batch: 799962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-799962/1-B	Method Blank	Total/NA	Water	FILTRATION	
LCS 500-799962/2-B	Lab Control Sample	Total/NA	Water	FILTRATION	

Analysis Batch: 800058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-1	DUP-01-SW_20241202	Total/NA	Water	350.1	799773
500-260921-3	MLR-03_20241202	Total/NA	Water	350.1	799960

General Chemistry (Continued)

Analysis Batch: 800058 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-260921-5	PRC-02_20241202	Total/NA	Water	350.1	799960
500-260921-7	NTC-01_20241202	Total/NA	Water	350.1	799960
500-260921-9	NB2-3_20241202	Total/NA	Water	350.1	799960
500-260921-11	NB2-1_20241202	Total/NA	Water	350.1	799960
500-260921-13	MLC-01_20241202	Total/NA	Water	350.1	799960
MB 500-799773/1-A	Method Blank	Total/NA	Water	350.1	799773
MB 500-799962/1-B	Method Blank	Total/NA	Water	350.1	799960
LCS 500-799773/2-A	Lab Control Sample	Total/NA	Water	350.1	799773
LCS 500-799962/2-B	Lab Control Sample	Total/NA	Water	350.1	799960

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-3845/1-A
Matrix: Water
Analysis Batch: 3870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/12/24 10:23	12/12/24 17:31	1

Lab Sample ID: MB 350-3845/2-A
Matrix: Water
Analysis Batch: 3870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/12/24 10:23	12/12/24 17:41	1

Lab Sample ID: MB 350-3845/3-A
Matrix: Water
Analysis Batch: 3870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	0.0231	J	0.050	0.022	ng/L		12/12/24 10:23	12/12/24 17:51	1

Lab Sample ID: LCS 350-3845/4-A
Matrix: Water
Analysis Batch: 3870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.870		ng/L		87	65 - 135

Lab Sample ID: LCSD 350-3845/5-A
Matrix: Water
Analysis Batch: 3870

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3845

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.866		ng/L		87	65 - 135	0	35

Lab Sample ID: MB 350-3869/1-A
Matrix: Water
Analysis Batch: 3916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 15:12	1

Lab Sample ID: MB 350-3869/2-A
Matrix: Water
Analysis Batch: 3916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 15:23	1

Lab Sample ID: MB 350-3869/3-A
Matrix: Water
Analysis Batch: 3916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 15:33	1

Method: 1630 - Methyl Mercury

Lab Sample ID: LCS 350-3869/4-A
Matrix: Water
Analysis Batch: 3916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3869

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.804		ng/L		80	65 - 135

Lab Sample ID: LCSD 350-3869/5-A
Matrix: Water
Analysis Batch: 3916

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3869

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	0.826		ng/L		83	65 - 135	3	35

Lab Sample ID: 500-260921-13 MS
Matrix: Water
Analysis Batch: 3916

Client Sample ID: MLC-01_20241202
Prep Type: Total/NA
Prep Batch: 3869

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	<0.022		1.00	0.879		ng/L		88	65 - 135

Lab Sample ID: 500-260921-13 MSD
Matrix: Water
Analysis Batch: 3916

Client Sample ID: MLC-01_20241202
Prep Type: Total/NA
Prep Batch: 3869

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	<0.022		1.00	0.866		ng/L		87	65 - 135	1	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-3882/27
Matrix: Water
Analysis Batch: 3882

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/12/24 14:06	1

Lab Sample ID: MB 350-3882/28
Matrix: Water
Analysis Batch: 3882

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/12/24 14:10	1

Lab Sample ID: MB 350-3882/29
Matrix: Water
Analysis Batch: 3882

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/12/24 14:14	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-3882/30
Matrix: Water
Analysis Batch: 3882

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/12/24 14:18	1

Lab Sample ID: MB 350-3882/31
Matrix: Water
Analysis Batch: 3882

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/12/24 14:22	1

Lab Sample ID: MB 350-3882/32
Matrix: Water
Analysis Batch: 3882

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/12/24 14:26	1

Lab Sample ID: LCS 350-3882/41
Matrix: Water
Analysis Batch: 3882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.89		ng/L		98	77 - 123

Lab Sample ID: LCS 350-3882/49
Matrix: Water
Analysis Batch: 3882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.97		ng/L		99	77 - 123

Lab Sample ID: LCSD 350-3882/42
Matrix: Water
Analysis Batch: 3882

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.83		ng/L		97	77 - 123	1	24

Lab Sample ID: LCSD 350-3882/50
Matrix: Water
Analysis Batch: 3882

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.91		ng/L		98	77 - 123	1	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-4098/1-A
Matrix: Water
Analysis Batch: 4209

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0129	J	0.050	0.0098	ug/L		12/26/24 12:54	12/27/24 18:46	1

Lab Sample ID: MB 350-4098/2-A
Matrix: Water
Analysis Batch: 4209

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0115	J	0.050	0.0098	ug/L		12/26/24 12:54	12/27/24 18:49	1

Lab Sample ID: LCS 350-4098/3-A
Matrix: Water
Analysis Batch: 4209

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	23.1		ug/L		93	85 - 115

Lab Sample ID: LCSD 350-4098/4-A
Matrix: Water
Analysis Batch: 4209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 4098

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	23.8		ug/L		95	85 - 115	3	20

Lab Sample ID: MB 350-4099/1-A
Matrix: Water
Analysis Batch: 4209

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4099

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		12/26/24 12:54	12/27/24 21:02	1

Lab Sample ID: MB 350-4099/2-A
Matrix: Water
Analysis Batch: 4209

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4099

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		12/26/24 12:54	12/27/24 21:05	1

Lab Sample ID: LCS 350-4099/3-A
Matrix: Water
Analysis Batch: 4209

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	23.0		ug/L		92	85 - 115

Lab Sample ID: LCSD 350-4099/4-A
Matrix: Water
Analysis Batch: 4209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 4099

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	23.0		ug/L		92	85 - 115	0	20

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-4100/1-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		12/26/24 10:17	12/30/24 10:01	1

Lab Sample ID: MB 350-4100/2-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		12/26/24 10:17	12/30/24 10:04	1

Lab Sample ID: LCS 350-4100/3-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4100

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium			25.0	26.1		ug/L		104	85 - 115		

Lab Sample ID: LCSD 350-4100/4-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 4100

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium			25.0	25.9		ug/L		104	85 - 115	1	20

Lab Sample ID: 500-260921-5 MS
Matrix: Water
Analysis Batch: 4216

Client Sample ID: PRC-02_20241202
Prep Type: Total Recoverable
Prep Batch: 4100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium	0.69		25.0	27.1		ug/L		106	70 - 130		

Lab Sample ID: 500-260921-5 MSD
Matrix: Water
Analysis Batch: 4216

Client Sample ID: PRC-02_20241202
Prep Type: Total Recoverable
Prep Batch: 4100

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	0.69		25.0	27.7		ug/L		108	70 - 130	2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-799201/1-A
Matrix: Water
Analysis Batch: 799507

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 799201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/12/24 15:28	12/13/24 14:51	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:28	12/13/24 14:51	1
Arsenic	<0.23		1.0	0.23	ug/L		12/12/24 15:28	12/13/24 14:51	1
Barium	<0.73		2.5	0.73	ug/L		12/12/24 15:28	12/13/24 14:51	1
Calcium	<44		200	44	ug/L		12/12/24 15:28	12/13/24 14:51	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:28	12/13/24 14:51	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-799201/1-A
Matrix: Water
Analysis Batch: 799507

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 799201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:28	12/13/24 14:51	1
Copper	<0.50		2.0	0.50	ug/L		12/12/24 15:28	12/13/24 14:51	1
Iron	<47		100	47	ug/L		12/12/24 15:28	12/13/24 14:51	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:28	12/13/24 14:51	1
Lithium	<2.5	^5-	10	2.5	ug/L		12/12/24 15:28	12/13/24 14:51	1
Magnesium	<49		200	49	ug/L		12/12/24 15:28	12/13/24 14:51	1
Manganese	<0.79		2.5	0.79	ug/L		12/12/24 15:28	12/13/24 14:51	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/12/24 15:28	12/13/24 14:51	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:28	12/13/24 14:51	1
Potassium	<110		500	110	ug/L		12/12/24 15:28	12/13/24 14:51	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:28	12/13/24 14:51	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:28	12/13/24 14:51	1
Sodium	<77		200	77	ug/L		12/12/24 15:28	12/13/24 14:51	1
Strontium	<0.64		4.0	0.64	ug/L		12/12/24 15:28	12/13/24 14:51	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:28	12/13/24 14:51	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:28	12/13/24 14:51	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:28	12/13/24 14:51	1
Zinc	12.6	J	20	6.9	ug/L		12/12/24 15:28	12/13/24 14:51	1

Lab Sample ID: MB 500-799201/1-A
Matrix: Water
Analysis Batch: 799688

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 799201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:28	12/16/24 15:17	1
Boron	17.1	J	50	13	ug/L		12/12/24 15:28	12/16/24 15:17	1
Calcium	<44		200	44	ug/L		12/12/24 15:28	12/16/24 15:17	1

Lab Sample ID: LCS 500-799201/2-A
Matrix: Water
Analysis Batch: 799507

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 799201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1760		ug/L		88	80 - 120
Antimony	500	500		ug/L		100	80 - 120
Arsenic	100	95.6		ug/L		96	80 - 120
Barium	500	454		ug/L		91	80 - 120
Cadmium	50.0	48.7		ug/L		97	80 - 120
Chromium	200	195		ug/L		98	80 - 120
Cobalt	500	474		ug/L		95	80 - 120
Copper	250	236		ug/L		94	80 - 120
Iron	1000	1000		ug/L		100	80 - 120
Lead	100	98.6		ug/L		99	80 - 120
Lithium	100	96.3	^5-	ug/L		96	80 - 120
Magnesium	10000	9900		ug/L		99	80 - 120
Manganese	500	517		ug/L		103	80 - 120
Molybdenum	1000	948		ug/L		95	80 - 120
Nickel	500	515		ug/L		103	80 - 120
Potassium	10000	9880		ug/L		99	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-799201/2-A
Matrix: Water
Analysis Batch: 799507

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 799201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	100	93.3		ug/L		93	80 - 120
Silver	50.0	49.3		ug/L		99	80 - 120
Sodium	10000	9820		ug/L		98	80 - 120
Strontium	1000	967		ug/L		97	80 - 120
Thallium	100	103		ug/L		103	80 - 120
Tin	1000	973		ug/L		97	80 - 120
Vanadium	500	484		ug/L		97	80 - 120
Zinc	500	505		ug/L		101	80 - 120

Lab Sample ID: LCS 500-799201/2-A
Matrix: Water
Analysis Batch: 799688

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 799201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	50.0	49.3		ug/L		99	80 - 120
Boron	1000	968		ug/L		97	80 - 120
Calcium	10000	8000		ug/L		80	80 - 120

Lab Sample ID: MB 500-799202/1-A
Matrix: Water
Analysis Batch: 799507

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 799202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/12/24 15:33	12/13/24 13:29	1
Antimony	<1.3		3.0	1.3	ug/L		12/12/24 15:33	12/13/24 13:29	1
Arsenic	<0.23		1.0	0.23	ug/L		12/12/24 15:33	12/13/24 13:29	1
Barium	<0.73		2.5	0.73	ug/L		12/12/24 15:33	12/13/24 13:29	1
Beryllium	<0.53		1.0	0.53	ug/L		12/12/24 15:33	12/13/24 13:29	1
Boron	23.6	J	50	13	ug/L		12/12/24 15:33	12/13/24 13:29	1
Cadmium	<0.17		0.50	0.17	ug/L		12/12/24 15:33	12/13/24 13:29	1
Chromium	<1.1		5.0	1.1	ug/L		12/12/24 15:33	12/13/24 13:29	1
Cobalt	<0.40		1.0	0.40	ug/L		12/12/24 15:33	12/13/24 13:29	1
Copper	<0.50		2.0	0.50	ug/L		12/12/24 15:33	12/13/24 13:29	1
Iron	<47		100	47	ug/L		12/12/24 15:33	12/13/24 13:29	1
Lead	<0.19		0.50	0.19	ug/L		12/12/24 15:33	12/13/24 13:29	1
Lithium	<2.5	^5-	10	2.5	ug/L		12/12/24 15:33	12/13/24 13:29	1
Magnesium	<49		200	49	ug/L		12/12/24 15:33	12/13/24 13:29	1
Manganese	<0.79		2.5	0.79	ug/L		12/12/24 15:33	12/13/24 13:29	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/12/24 15:33	12/13/24 13:29	1
Nickel	<0.63		2.0	0.63	ug/L		12/12/24 15:33	12/13/24 13:29	1
Potassium	<110		500	110	ug/L		12/12/24 15:33	12/13/24 13:29	1
Selenium	<0.98		2.5	0.98	ug/L		12/12/24 15:33	12/13/24 13:29	1
Silver	<0.12		0.50	0.12	ug/L		12/12/24 15:33	12/13/24 13:29	1
Sodium	<77		200	77	ug/L		12/12/24 15:33	12/13/24 13:29	1
Strontium	<0.64		4.0	0.64	ug/L		12/12/24 15:33	12/13/24 13:29	1
Thallium	<0.57		2.0	0.57	ug/L		12/12/24 15:33	12/13/24 13:29	1
Tin	<1.3		5.0	1.3	ug/L		12/12/24 15:33	12/13/24 13:29	1
Vanadium	<2.2		5.0	2.2	ug/L		12/12/24 15:33	12/13/24 13:29	1
Zinc	<6.9		20	6.9	ug/L		12/12/24 15:33	12/13/24 13:29	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-799202/1-A
Matrix: Water
Analysis Batch: 799688

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 799202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<44		200	44	ug/L		12/12/24 15:33	12/16/24 14:44	1

Lab Sample ID: LCS 500-799202/2-A
Matrix: Water
Analysis Batch: 799507

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 799202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1800		ug/L		90	80 - 120
Antimony	500	481		ug/L		96	80 - 120
Arsenic	100	93.2		ug/L		93	80 - 120
Barium	500	454		ug/L		91	80 - 120
Beryllium	50.0	48.4		ug/L		97	80 - 120
Boron	1000	975		ug/L		97	80 - 120
Cadmium	50.0	47.6		ug/L		95	80 - 120
Chromium	200	192		ug/L		96	80 - 120
Cobalt	500	473		ug/L		95	80 - 120
Copper	250	235		ug/L		94	80 - 120
Iron	1000	979		ug/L		98	80 - 120
Lead	100	95.6		ug/L		96	80 - 120
Lithium	100	100	^5-	ug/L		100	80 - 120
Magnesium	10000	9810		ug/L		98	80 - 120
Manganese	500	491		ug/L		98	80 - 120
Molybdenum	1000	912		ug/L		91	80 - 120
Nickel	500	494		ug/L		99	80 - 120
Potassium	10000	9630		ug/L		96	80 - 120
Selenium	100	93.6		ug/L		94	80 - 120
Silver	50.0	47.6		ug/L		95	80 - 120
Sodium	10000	9730		ug/L		97	80 - 120
Strontium	1000	931		ug/L		93	80 - 120
Thallium	100	99.2		ug/L		99	80 - 120
Tin	1000	942		ug/L		94	80 - 120
Vanadium	500	476		ug/L		95	80 - 120
Zinc	500	490		ug/L		98	80 - 120

Lab Sample ID: LCS 500-799202/2-A
Matrix: Water
Analysis Batch: 799688

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 799202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	10000	8200		ug/L		82	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-797982/3
Matrix: Water
Analysis Batch: 797982

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.42		1.0	0.42	mg/L			12/04/24 11:02	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-797982/18
Matrix: Water
Analysis Batch: 797982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	106		mg/L		106	90 - 110

Lab Sample ID: MB 500-798051/3
Matrix: Water
Analysis Batch: 798051

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.45		1.0	0.45	mg/L			12/04/24 15:42	1
Chloride	<0.42		1.0	0.42	mg/L			12/04/24 15:42	1
Fluoride	<0.43		1.0	0.43	mg/L			12/04/24 15:42	1
Sulfate	<0.47		1.0	0.47	mg/L			12/04/24 15:42	1

Lab Sample ID: LCS 500-798051/4
Matrix: Water
Analysis Batch: 798051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	20.5		mg/L		102	90 - 110
Chloride	20.0	20.3		mg/L		101	90 - 110
Fluoride	20.0	20.6		mg/L		103	90 - 110
Sulfate	20.0	21.4		mg/L		107	90 - 110

Lab Sample ID: 500-260921-13 MS
Matrix: Water
Analysis Batch: 798051

Client Sample ID: MLC-01_20241202
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	<0.45		10.0	10.5		mg/L		105	80 - 120
Chloride	38		10.0	50.2	E	mg/L		120	80 - 120
Fluoride	<0.43		10.0	9.67		mg/L		97	80 - 120
Sulfate	7.7		10.0	18.2		mg/L		105	80 - 120

Lab Sample ID: 500-260921-13 MSD
Matrix: Water
Analysis Batch: 798051

Client Sample ID: MLC-01_20241202
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	<0.45		10.0	10.3		mg/L		103	80 - 120	2	20
Chloride	38		10.0	49.8		mg/L		116	80 - 120	1	20
Fluoride	<0.43		10.0	9.37		mg/L		94	80 - 120	3	20
Sulfate	7.7		10.0	18.0		mg/L		103	80 - 120	1	20

Lab Sample ID: MB 500-798052/3
Matrix: Water
Analysis Batch: 798052

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.37		1.0	0.37	mg/L			12/04/24 15:42	1
Nitrite as N	<0.25		1.0	0.25	mg/L			12/04/24 15:42	1
Nitrate Nitrite as N	<0.37		1.0	0.37	mg/L			12/04/24 15:42	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 500-798052/4
Matrix: Water
Analysis Batch: 798052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			20.0	21.6		mg/L		108	90 - 110		
Nitrite as N			20.0	21.1		mg/L		106	90 - 110		
Nitrate Nitrite as N			40.0	42.7		mg/L		107	90 - 110		

Lab Sample ID: 500-260921-13 MS
Matrix: Water
Analysis Batch: 798052

Client Sample ID: MLC-01_20241202
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	<0.37	H	2.26	2.11		mg/L		93	80 - 120		
Nitrite as N	<0.25	H	3.03	3.03		mg/L		100	80 - 120		
Nitrate Nitrite as N	<0.37	H	5.29	5.14		mg/L		97	80 - 120		

Lab Sample ID: 500-260921-13 MSD
Matrix: Water
Analysis Batch: 798052

Client Sample ID: MLC-01_20241202
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.37	H	2.26	2.05		mg/L		91	80 - 120	2	20
Nitrite as N	<0.25	H	3.03	2.95		mg/L		97	80 - 120	2	20
Nitrate Nitrite as N	<0.37	H	5.29	5.00		mg/L		95	80 - 120	3	20

Lab Sample ID: MB 500-799196/3
Matrix: Water
Analysis Batch: 799196

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.42		1.0	0.42	mg/L			12/13/24 10:40	1
Sulfate	<0.47		1.0	0.47	mg/L			12/13/24 10:40	1

Lab Sample ID: LCS 500-799196/4
Matrix: Water
Analysis Batch: 799196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	101		mg/L		101	90 - 110		
Sulfate			100	106		mg/L		106	90 - 110		

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-798221/1-A
Matrix: Water
Analysis Batch: 798261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 798221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		12/05/24 13:27	12/05/24 15:34	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 500-798221/2-A
Matrix: Water
Analysis Batch: 798261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798221

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.100	0.100		mg/L		100	90 - 110		

Lab Sample ID: 500-260921-9 MS
Matrix: Water
Analysis Batch: 798261

Client Sample ID: NB2-3_20241202
Prep Type: Total/NA
Prep Batch: 798221

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	<0.0036		0.100	0.100		mg/L		100	90 - 110		

Lab Sample ID: 500-260921-9 MSD
Matrix: Water
Analysis Batch: 798261

Client Sample ID: NB2-3_20241202
Prep Type: Total/NA
Prep Batch: 798221

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.0036		0.100	0.101		mg/L		101	90 - 110	1	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-799773/1-A
Matrix: Water
Analysis Batch: 800058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		12/17/24 14:31	12/18/24 16:36	1

Lab Sample ID: LCS 500-799773/2-A
Matrix: Water
Analysis Batch: 800058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799773

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia			2.00	2.04		mg/L		102	90 - 110		

Lab Sample ID: MB 500-799962/1-B
Matrix: Water
Analysis Batch: 800058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 799960

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		12/18/24 14:37	12/18/24 16:48	1

Lab Sample ID: LCS 500-799962/2-B
Matrix: Water
Analysis Batch: 800058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 799960

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia			2.00	1.92		mg/L		96	90 - 110		

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-798546/1-A
Matrix: Water
Analysis Batch: 799336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 798546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 10:53	1

Lab Sample ID: LCS 500-798546/2-A
Matrix: Water
Analysis Batch: 799336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.939		mg/L		94	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-798892/3
Matrix: Water
Analysis Batch: 798892

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.99		5.0	3.7	mg/L			12/09/24 10:41	1
Bicarbonate Alkalinity as CaCO3	5.99		5.0	3.7	mg/L			12/09/24 10:41	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			12/09/24 10:41	1

Lab Sample ID: LCS 500-798892/4
Matrix: Water
Analysis Batch: 798892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	107		mg/L		107	95 - 121

Lab Sample ID: 500-260921-5 DU
Matrix: Water
Analysis Batch: 798892

Client Sample ID: PRC-02_20241202
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	96	B	101		mg/L		5	20
Bicarbonate Alkalinity as CaCO3	96	B	101		mg/L		5	20
Carbonate Alkalinity as CaCO3	<3.7		<3.7		mg/L		NC	20

Lab Sample ID: MB 500-799502/3
Matrix: Water
Analysis Batch: 799502

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	4.90	J	5.0	3.7	mg/L			12/13/24 15:46	1
Bicarbonate Alkalinity as CaCO3	4.90	J	5.0	3.7	mg/L			12/13/24 15:46	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			12/13/24 15:46	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 500-799502/4
Matrix: Water
Analysis Batch: 799502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	95 - 121

Method: SM 2520B - Salinity

Lab Sample ID: 500-260921-3 DU
Matrix: Water
Analysis Batch: 798463

Client Sample ID: MLR-03_20241202
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Salinity	<0.33		<0.33		psu		NC	

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-798297/1
Matrix: Water
Analysis Batch: 798297

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			12/06/24 01:47	1

Lab Sample ID: LCS 500-798297/2
Matrix: Water
Analysis Batch: 798297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	268		mg/L		107	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-798151/1
Matrix: Water
Analysis Batch: 798151

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			12/05/24 09:57	1

Lab Sample ID: LCS 500-798151/2
Matrix: Water
Analysis Batch: 798151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	185		mg/L		92	80 - 120

Lab Sample ID: 500-260921-5 DU
Matrix: Water
Analysis Batch: 798151

Client Sample ID: PRC-02_20241202
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	3.2	J	3.80	J F5	mg/L		17	5

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-798314/1
Matrix: Water
Analysis Batch: 798314

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			12/05/24 23:29	1

Lab Sample ID: LCS 500-798314/2
Matrix: Water
Analysis Batch: 798314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.76	3.68		mg/L		98	85 - 115

Lab Sample ID: MB 500-798664/1
Matrix: Water
Analysis Batch: 798664

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			12/09/24 23:25	1

Lab Sample ID: LCS 500-798664/2
Matrix: Water
Analysis Batch: 798664

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.76	3.76		mg/L		100	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-798487/7
Matrix: Water
Analysis Batch: 798487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			12/08/24 14:37	1

Lab Sample ID: LCS 500-798487/8
Matrix: Water
Analysis Batch: 798487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Lab Sample ID: 500-260921-1 MS
Matrix: Water
Analysis Batch: 798487

Client Sample ID: DUP-01-SW_20241202
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	9.0		10.0	18.9		mg/L		99	75 - 125

Method: SM 5310C - TOC (Continued)

Lab Sample ID: 500-260921-1 MSD
Matrix: Water
Analysis Batch: 798487

Client Sample ID: DUP-01-SW_20241202
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	9.0		10.0	19.0		mg/L		99	75 - 125	0	20

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-798878/7
Matrix: Water
Analysis Batch: 798878

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			12/11/24 07:30	1

Lab Sample ID: LCS 500-798878/8
Matrix: Water
Analysis Batch: 798878

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.0		mg/L		100	86 - 116

Lab Sample ID: 500-260921-1 MS
Matrix: Water
Analysis Batch: 798878

Client Sample ID: DUP-01-SW_20241202
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	8.7		10.0	19.3		mg/L		106	75 - 125

Lab Sample ID: 500-260921-1 MSD
Matrix: Water
Analysis Batch: 798878

Client Sample ID: DUP-01-SW_20241202
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dissolved Organic Carbon	8.7		10.0	19.3		mg/L		106	75 - 125	0	20

Client Sample ID: DUP-01-SW_20241202

Lab Sample ID: 500-260921-1

Date Collected: 12/02/24 23:59

Matrix: Water

Date Received: 12/04/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3845	AJD	EET SSM	12/12/24 10:23
Dissolved	Analysis	1630		1	3870	COW	EET SSM	12/12/24 22:27
Total/NA	Prep	1630			3845	AJD	EET SSM	12/12/24 10:23
Total/NA	Analysis	1630		1	3870	COW	EET SSM	12/12/24 22:17
Dissolved	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 19:50
Total/NA	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 17:58
Dissolved	Prep	1638			4099	D1C	EET SSM	12/26/24 12:54
Dissolved	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 17:07
Total Recoverable	Prep	1638			4099	D1C	EET SSM	12/26/24 12:54
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 17:03
Dissolved	Prep	3005A			799201	S1Z	EET CHI	12/12/24 15:28 - 12/12/24 21:28 [1]
Dissolved	Analysis	6020B		1	799507	RN	EET CHI	12/13/24 15:51
Dissolved	Prep	3005A			799201	S1Z	EET CHI	12/12/24 15:28 - 12/12/24 21:28 [1]
Dissolved	Analysis	6020B		1	799688	RN	EET CHI	12/16/24 15:22
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 [1]
Total Recoverable	Analysis	6020B		1	799507	RN	EET CHI	12/13/24 14:07
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 [1]
Total Recoverable	Analysis	6020B		1	799688	RN	EET CHI	12/16/24 14:49
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 [1]
Total Recoverable	Analysis	SM 2340B		1	799553	DAJ	EET CHI	12/16/24 10:44
Total/NA	Analysis	300.0		1	798051	MM	EET CHI	12/04/24 16:14
Total/NA	Analysis	300.0		1	798052	MM	EET CHI	12/04/24 16:14
Total/NA	Prep	Distill/CN			798221	AC	EET CHI	12/05/24 13:27 - 12/05/24 13:57 [1]
Total/NA	Analysis	335.4		1	798261	AC	EET CHI	12/05/24 15:38
Total/NA	Prep	Distill/Ammonia			799773	EB	EET CHI	12/17/24 14:31 - 12/17/24 15:31 [1]
Total/NA	Analysis	350.1		1	800058	EB	EET CHI	12/18/24 16:47
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 10:53
Total/NA	Analysis	SM 2320B		1	799502	SO	EET CHI	12/13/24 15:59
Total/NA	Analysis	SM 2520B		1	798463	TR	EET CHI	12/08/24 14:12
Total/NA	Analysis	SM 2540C		1	798297	CLB	EET CHI	12/06/24 02:07
Total/NA	Analysis	SM 2540D		1	798151	SO	EET CHI	12/05/24 10:10 - 12/05/24 10:12 [1]
Total/NA	Analysis	SM 4500 S2 F		1	798314	CLB	EET CHI	12/06/24 01:01 - 12/06/24 01:05 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798487	TR	EET CHI	12/08/24 16:02

Client Sample ID: DUP-01-SW_20241202_FBLL

Lab Sample ID: 500-260921-2

Date Collected: 12/02/24 23:59

Matrix: Water

Date Received: 12/04/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 18:02

Client Sample ID: MLR-03_20241202

Lab Sample ID: 500-260921-3

Date Collected: 12/02/24 14:00

Matrix: Water

Date Received: 12/04/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3845	AJD	EET SSM	12/12/24 10:23
Dissolved	Analysis	1630		1	3870	COW	EET SSM	12/12/24 22:47
Total/NA	Prep	1630			3845	AJD	EET SSM	12/12/24 10:23
Total/NA	Analysis	1630		1	3870	COW	EET SSM	12/12/24 22:37
Dissolved	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 19:54
Total/NA	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 18:06
Dissolved	Prep	1638			4100	D1C	EET SSM	12/26/24 10:17
Dissolved	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 10:42
Total Recoverable	Prep	1638			4099	D1C	EET SSM	12/26/24 12:54
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 17:17
Dissolved	Prep	3005A			799201	S1Z	EET CHI	12/12/24 15:28 - 12/12/24 21:28 ¹
Dissolved	Analysis	6020B		1	799507	RN	EET CHI	12/13/24 15:53
Dissolved	Prep	3005A			799201	S1Z	EET CHI	12/12/24 15:28 - 12/12/24 21:28 ¹
Dissolved	Analysis	6020B		1	799688	RN	EET CHI	12/16/24 15:24
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 ¹
Total Recoverable	Analysis	6020B		1	799507	RN	EET CHI	12/13/24 14:10
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 ¹
Total Recoverable	Analysis	6020B		1	799688	RN	EET CHI	12/16/24 14:51
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 ¹
Total Recoverable	Analysis	SM 2340B		1	799553	DAJ	EET CHI	12/16/24 10:44
Total/NA	Analysis	300.0		1	798051	MM	EET CHI	12/04/24 16:29
Total/NA	Analysis	300.0		1	798052	MM	EET CHI	12/04/24 16:29
Total/NA	Prep	Distill/CN			798221	AC	EET CHI	12/05/24 13:27 - 12/05/24 13:57 ¹
Total/NA	Analysis	335.4		1	798261	AC	EET CHI	12/05/24 15:40
Total/NA	Prep	Distill/Ammonia			799960	EB	EET CHI	12/18/24 14:37 - 12/18/24 15:37 ¹
Total/NA	Analysis	350.1		1	800058	EB	EET CHI	12/18/24 16:50
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 ¹
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 10:54
Total/NA	Analysis	SM 2320B		1	798892	SO	EET CHI	12/09/24 12:36
Total/NA	Analysis	SM 2520B		1	798463	TR	EET CHI	12/08/24 14:12
Total/NA	Analysis	SM 2540C		1	798297	CLB	EET CHI	12/06/24 02:10
Total/NA	Analysis	SM 2540D		1	798151	SO	EET CHI	12/05/24 10:12 - 12/05/24 10:14 ¹
Total/NA	Analysis	SM 4500 S2 F		1	798664	CLB	EET CHI	12/09/24 23:31 - 12/09/24 23:35 ¹
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798487	TR	EET CHI	12/08/24 17:26

Client Sample ID: MLR-03_20241202_FBLL

Lab Sample ID: 500-260921-4

Date Collected: 12/02/24 14:00

Matrix: Water

Date Received: 12/04/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 18:10

Client Sample ID: PRC-02_20241202

Lab Sample ID: 500-260921-5

Date Collected: 12/02/24 12:20

Matrix: Water

Date Received: 12/04/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3845	AJD	EET SSM	12/12/24 10:23
Dissolved	Analysis	1630		1	3870	COW	EET SSM	12/12/24 23:08
Total/NA	Prep	1630			3845	AJD	EET SSM	12/12/24 10:23
Total/NA	Analysis	1630		1	3870	COW	EET SSM	12/12/24 22:58
Dissolved	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 19:58
Total/NA	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 18:15
Dissolved	Prep	1638			4100	D1C	EET SSM	12/26/24 10:17
Dissolved	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 10:46
Total Recoverable	Prep	1638			4100	D1C	EET SSM	12/26/24 10:17
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 10:15
Dissolved	Prep	3005A			799201	S1Z	EET CHI	12/12/24 15:28 - 12/12/24 21:28 [1]
Dissolved	Analysis	6020B		1	799507	RN	EET CHI	12/13/24 16:01
Dissolved	Prep	3005A			799201	S1Z	EET CHI	12/12/24 15:28 - 12/12/24 21:28 [1]
Dissolved	Analysis	6020B		1	799688	RN	EET CHI	12/16/24 15:27
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 [1]
Total Recoverable	Analysis	6020B		1	799507	RN	EET CHI	12/13/24 14:13
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 [1]
Total Recoverable	Analysis	6020B		1	799688	RN	EET CHI	12/16/24 14:54
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 [1]
Total Recoverable	Analysis	SM 2340B		1	799553	DAJ	EET CHI	12/16/24 10:44
Total/NA	Analysis	300.0		1	798051	MM	EET CHI	12/04/24 16:45
Total/NA	Analysis	300.0		1	798052	MM	EET CHI	12/04/24 16:45
Total/NA	Analysis	300.0		1	797982	MM	EET CHI	12/04/24 11:43
Total/NA	Prep	Distill/CN			798221	AC	EET CHI	12/05/24 13:27 - 12/05/24 13:57 [1]
Total/NA	Analysis	335.4		1	798261	AC	EET CHI	12/05/24 15:42
Total/NA	Prep	Distill/Ammonia			799960	EB	EET CHI	12/18/24 14:37 - 12/18/24 15:37 [1]
Total/NA	Analysis	350.1		1	800058	EB	EET CHI	12/18/24 16:50
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 10:54
Total/NA	Analysis	SM 2320B		1	798892	SO	EET CHI	12/09/24 12:44
Total/NA	Analysis	SM 2520B		1	798463	TR	EET CHI	12/08/24 14:12
Total/NA	Analysis	SM 2540C		1	798297	CLB	EET CHI	12/06/24 02:12
Total/NA	Analysis	SM 2540D		1	798151	SO	EET CHI	12/05/24 10:14 - 12/05/24 10:16 [1]
Total/NA	Analysis	SM 4500 S2 F		1	798664	CLB	EET CHI	12/09/24 23:35 - 12/09/24 23:38 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798487	TR	EET CHI	12/08/24 17:54

Client Sample ID: PRC-02_20241202_FBLL

Lab Sample ID: 500-260921-6

Date Collected: 12/02/24 12:20

Matrix: Water

Date Received: 12/04/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 18:19

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: NTC-01_20241202

Lab Sample ID: 500-260921-7

Date Collected: 12/02/24 10:40

Matrix: Water

Date Received: 12/04/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3845	AJD	EET SSM	12/12/24 10:23
Dissolved	Analysis	1630		1	3870	COW	EET SSM	12/12/24 23:49
Total/NA	Prep	1630			3845	AJD	EET SSM	12/12/24 10:23
Total/NA	Analysis	1630		1	3870	COW	EET SSM	12/12/24 23:38
Dissolved	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 20:03
Total/NA	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 18:23
Dissolved	Prep	1638			4098	D1C	EET SSM	12/26/24 12:54
Dissolved	Analysis	1638		1	4209	V1R	EET SSM	12/27/24 19:26
Total Recoverable	Prep	1638			4098	D1C	EET SSM	12/26/24 12:54
Total Recoverable	Analysis	1638		1	4209	V1R	EET SSM	12/27/24 19:23
Dissolved	Prep	3005A			799201	S1Z	EET CHI	12/12/24 15:28 - 12/12/24 21:28 ¹
Dissolved	Analysis	6020B		1	799507	RN	EET CHI	12/13/24 16:03
Dissolved	Prep	3005A			799201	S1Z	EET CHI	12/12/24 15:28 - 12/12/24 21:28 ¹
Dissolved	Analysis	6020B		1	799688	RN	EET CHI	12/16/24 15:29
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 ¹
Total Recoverable	Analysis	6020B		1	799507	RN	EET CHI	12/13/24 14:15
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 ¹
Total Recoverable	Analysis	6020B		1	799688	RN	EET CHI	12/16/24 14:56
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 ¹
Total Recoverable	Analysis	SM 2340B		1	799553	DAJ	EET CHI	12/16/24 10:44
Total/NA	Analysis	300.0		1	798051	MM	EET CHI	12/04/24 17:00
Total/NA	Analysis	300.0		1	798052	MM	EET CHI	12/04/24 17:00
Total/NA	Prep	Distill/CN			798221	AC	EET CHI	12/05/24 13:27 - 12/05/24 13:57 ¹
Total/NA	Analysis	335.4		1	798261	AC	EET CHI	12/05/24 15:43
Total/NA	Prep	Distill/Ammonia			799960	EB	EET CHI	12/18/24 14:37 - 12/18/24 15:37 ¹
Total/NA	Analysis	350.1		1	800058	EB	EET CHI	12/18/24 16:51
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 ¹
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 10:55
Total/NA	Analysis	SM 2320B		1	799502	SO	EET CHI	12/13/24 16:07
Total/NA	Analysis	SM 2520B		1	798463	TR	EET CHI	12/08/24 14:12
Total/NA	Analysis	SM 2540C		1	798297	CLB	EET CHI	12/06/24 02:15
Total/NA	Analysis	SM 2540D		1	798151	SO	EET CHI	12/05/24 10:18 - 12/05/24 10:20 ¹
Total/NA	Analysis	SM 4500 S2 F		1	798664	CLB	EET CHI	12/09/24 23:38 - 12/09/24 23:42 ¹
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798487	TR	EET CHI	12/08/24 18:22

Client Sample ID: NTC-01_20241202_FBLL

Lab Sample ID: 500-260921-8

Date Collected: 12/02/24 10:40

Matrix: Water

Date Received: 12/04/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 18:27

Client Sample ID: NB2-3_20241202

Lab Sample ID: 500-260921-9

Date Collected: 12/02/24 17:15

Matrix: Water

Date Received: 12/04/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3845	AJD	EET SSM	12/12/24 10:23
Dissolved	Analysis	1630		1	3870	COW	EET SSM	12/13/24 00:09
Total/NA	Prep	1630			3845	AJD	EET SSM	12/12/24 10:23
Total/NA	Analysis	1630		1	3870	COW	EET SSM	12/12/24 23:59
Dissolved	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 20:07
Total/NA	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 18:31
Dissolved	Prep	1638			4098	D1C	EET SSM	12/26/24 12:54
Dissolved	Analysis	1638		1	4209	V1R	EET SSM	12/27/24 19:32
Total Recoverable	Prep	1638			4098	D1C	EET SSM	12/26/24 12:54
Total Recoverable	Analysis	1638		1	4209	V1R	EET SSM	12/27/24 19:29
Dissolved	Prep	3005A			799201	S1Z	EET CHI	12/12/24 15:28 - 12/12/24 21:28 [1]
Dissolved	Analysis	6020B		1	799507	RN	EET CHI	12/13/24 16:06
Dissolved	Prep	3005A			799201	S1Z	EET CHI	12/12/24 15:28 - 12/12/24 21:28 [1]
Dissolved	Analysis	6020B		1	799688	RN	EET CHI	12/16/24 15:32
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 [1]
Total Recoverable	Analysis	6020B		1	799507	RN	EET CHI	12/13/24 14:18
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 [1]
Total Recoverable	Analysis	6020B		1	799688	RN	EET CHI	12/16/24 14:59
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 [1]
Total Recoverable	Analysis	SM 2340B		1	799553	DAJ	EET CHI	12/16/24 10:44
Total/NA	Analysis	300.0		1	798051	MM	EET CHI	12/04/24 17:16
Total/NA	Analysis	300.0		1	798052	MM	EET CHI	12/04/24 17:16
Total/NA	Analysis	300.0		10	799196	MB	EET CHI	12/13/24 14:45
Total/NA	Prep	Distill/CN			798221	AC	EET CHI	12/05/24 13:27 - 12/05/24 13:57 [1]
Total/NA	Analysis	335.4		1	798261	AC	EET CHI	12/05/24 15:45
Total/NA	Prep	Distill/Ammonia			799960	EB	EET CHI	12/18/24 14:37 - 12/18/24 15:37 [1]
Total/NA	Analysis	350.1		1	800058	EB	EET CHI	12/18/24 16:51
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 10:55
Total/NA	Analysis	SM 2320B		1	798892	SO	EET CHI	12/09/24 13:10
Total/NA	Analysis	SM 2520B		1	798463	TR	EET CHI	12/08/24 14:12
Total/NA	Analysis	SM 2540C		1	798297	CLB	EET CHI	12/06/24 02:18
Total/NA	Analysis	SM 2540D		1	798151	SO	EET CHI	12/05/24 10:20 - 12/05/24 10:21 [1]
Total/NA	Analysis	SM 4500 S2 F		1	798664	CLB	EET CHI	12/09/24 23:42 - 12/09/24 23:45 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798487	TR	EET CHI	12/08/24 18:50

Client Sample ID: NB2-3_20241202_FBLL

Lab Sample ID: 500-260921-10

Date Collected: 12/02/24 17:15

Matrix: Water

Date Received: 12/04/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 18:35

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: NB2-1_20241202

Date Collected: 12/02/24 16:20
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Dissolved	Analysis	1630		1	3916	COW	EET SSM	12/13/24 19:48
Total/NA	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Total/NA	Analysis	1630		1	3916	COW	EET SSM	12/13/24 19:38
Dissolved	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 20:11
Total/NA	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 18:48
Dissolved	Prep	1638			4098	D1C	EET SSM	12/26/24 12:54
Dissolved	Analysis	1638		1	4209	V1R	EET SSM	12/27/24 19:38
Total Recoverable	Prep	1638			4098	D1C	EET SSM	12/26/24 12:54
Total Recoverable	Analysis	1638		1	4209	V1R	EET SSM	12/27/24 19:35
Dissolved	Prep	3005A			799201	S1Z	EET CHI	12/12/24 15:28 - 12/12/24 21:28 [1]
Dissolved	Analysis	6020B		1	799507	RN	EET CHI	12/13/24 16:08
Dissolved	Prep	3005A			799201	S1Z	EET CHI	12/12/24 15:28 - 12/12/24 21:28 [1]
Dissolved	Analysis	6020B		1	799688	RN	EET CHI	12/16/24 15:34
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 [1]
Total Recoverable	Analysis	6020B		1	799507	RN	EET CHI	12/13/24 14:25
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 [1]
Total Recoverable	Analysis	6020B		1	799688	RN	EET CHI	12/16/24 15:02
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 [1]
Total Recoverable	Analysis	SM 2340B		1	799553	DAJ	EET CHI	12/16/24 10:44
Total/NA	Analysis	300.0		1	798051	MM	EET CHI	12/04/24 17:31
Total/NA	Analysis	300.0		1	798052	MM	EET CHI	12/04/24 17:31
Total/NA	Analysis	300.0		1	797982	MM	EET CHI	12/04/24 12:14
Total/NA	Analysis	300.0		10	799196	MB	EET CHI	12/13/24 15:02
Total/NA	Prep	Distill/CN			798221	AC	EET CHI	12/05/24 13:27 - 12/05/24 13:57 [1]
Total/NA	Analysis	335.4		1	798261	AC	EET CHI	12/05/24 15:54
Total/NA	Prep	Distill/Ammonia			799960	EB	EET CHI	12/18/24 14:37 - 12/18/24 15:37 [1]
Total/NA	Analysis	350.1		1	800058	EB	EET CHI	12/18/24 16:52
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 10:56
Total/NA	Analysis	SM 2320B		1	798892	SO	EET CHI	12/09/24 13:19
Total/NA	Analysis	SM 2520B		1	798463	TR	EET CHI	12/08/24 14:12
Total/NA	Analysis	SM 2540C		1	798297	CLB	EET CHI	12/06/24 02:20
Total/NA	Analysis	SM 2540D		1	798151	SO	EET CHI	12/05/24 10:21 - 12/05/24 10:23 [1]
Total/NA	Analysis	SM 4500 S2 F		1	798664	CLB	EET CHI	12/09/24 23:45 - 12/09/24 23:49 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798487	TR	EET CHI	12/08/24 20:14

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: NB2-1_20241202_FBLL

Lab Sample ID: 500-260921-12

Date Collected: 12/02/24 16:20

Matrix: Water

Date Received: 12/04/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 18:52

Client Sample ID: MLC-01_20241202

Lab Sample ID: 500-260921-13

Date Collected: 12/02/24 15:10

Matrix: Water

Date Received: 12/04/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Dissolved	Analysis	1630		1	3916	COW	EET SSM	12/13/24 19:58
Total/NA	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Total/NA	Analysis	1630		1	3916	COW	EET SSM	12/13/24 18:36
Dissolved	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 20:15
Total/NA	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 19:42
Dissolved	Prep	1638			4098	D1C	EET SSM	12/26/24 12:54
Dissolved	Analysis	1638		1	4209	V1R	EET SSM	12/27/24 19:44
Total Recoverable	Prep	1638			4098	D1C	EET SSM	12/26/24 12:54
Total Recoverable	Analysis	1638		1	4209	V1R	EET SSM	12/27/24 19:41
Dissolved	Prep	3005A			799201	S1Z	EET CHI	12/12/24 15:28 - 12/12/24 21:28 [1]
Dissolved	Analysis	6020B		1	799507	RN	EET CHI	12/13/24 16:14
Dissolved	Prep	3005A			799201	S1Z	EET CHI	12/12/24 15:28 - 12/12/24 21:28 [1]
Dissolved	Analysis	6020B		1	799688	RN	EET CHI	12/16/24 15:37
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 [1]
Total Recoverable	Analysis	6020B		1	799507	RN	EET CHI	12/13/24 14:28
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 [1]
Total Recoverable	Analysis	6020B		1	799688	RN	EET CHI	12/16/24 15:04
Total Recoverable	Prep	3005A			799202	S1Z	EET CHI	12/12/24 15:33 - 12/12/24 21:33 [1]
Total Recoverable	Analysis	SM 2340B		1	799553	DAJ	EET CHI	12/16/24 10:44
Total/NA	Analysis	300.0		1	798051	MM	EET CHI	12/04/24 17:47
Total/NA	Analysis	300.0		1	798052	MM	EET CHI	12/04/24 17:47
Total/NA	Prep	Distill/CN			798221	AC	EET CHI	12/05/24 13:27 - 12/05/24 13:57 [1]
Total/NA	Analysis	335.4		1	798261	AC	EET CHI	12/05/24 15:56
Total/NA	Prep	Distill/Ammonia			799960	EB	EET CHI	12/18/24 14:37 - 12/18/24 15:37 [1]
Total/NA	Analysis	350.1		1	800058	EB	EET CHI	12/18/24 16:52
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 10:57
Total/NA	Analysis	SM 2320B		1	799502	SO	EET CHI	12/13/24 16:15
Total/NA	Analysis	SM 2520B		1	798463	TR	EET CHI	12/08/24 14:12
Total/NA	Analysis	SM 2540C		1	798297	CLB	EET CHI	12/06/24 02:23
Total/NA	Analysis	SM 2540D		1	798151	SO	EET CHI	12/05/24 10:23 - 12/05/24 10:25 [1]
Total/NA	Analysis	SM 4500 S2 F		1	798664	CLB	EET CHI	12/09/24 23:49 - 12/09/24 23:52 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798487	TR	EET CHI	12/08/24 20:42

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Client Sample ID: MLC-01_20241202-FBLL

Date Collected: 12/02/24 15:10
Date Received: 12/04/24 09:30

Lab Sample ID: 500-260921-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3882	CL	EET SSM	12/12/24 19:46

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-260921-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	100201	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-25
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24 *
South Carolina	State	77001003	05-31-25
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-25
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	07-07-25
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
Maine	State	WA01273	05-02-26
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-25
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	07-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Maddy Strong	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4221 9522 2443	COC No: 500-130281-50241 40
Client Contact: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper LLC	PWSID:			Job #: 500-260921
Address: 35362 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site: White Pine North Baseline Sampling	SSOW#:			

Analysis Requested

Preservation Codes:
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A - HCL

500-260921 COC

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) - tripli	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS)	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury	6020B - Dissolved Metals (ICP/MS) - 27 elements	1638 - Dissolved Uranium only (ICP/MS) (field f	1631E - Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME - Dissolved Methyl Mercury (field filtered)	5310C - TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A	S		
1 DUP-01-SW-20241202	12-2-24	—		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X	22	
2 DUP-01-SW-20241202-FBLL	12-2-24	—		Water										X							2	
3 MLR-03_20241202	12-2-24	1400		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X	22	
4 MLR-03_20241202_FBLL	12-2-24	1400		Water										X							2	
				Water																		
				Water																		
				Water																		
				Water																		
				Water																		
				Water																		
				Water																		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	12-3-24 1300	MSG	4221 9522 2443	12-3-24 1300	Fedex
2				Stephanie Hernandez	12/4/24 0930	EEA
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 3.6+3.5, 5.1+5.0, 4.8+4.7, 3.4+3.3

12/31/2024

Ver 05/06/2024

Chain of Custody Record

eurofins | Environment Testing

Eurofins Chicago
17 Bond Street
Lisle, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Client Information	Sampler: Addy Strong	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4221 9522 2454	COC No: 500-130281-50241 9
Client Contact: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper LLC	PWSID:			Job #: 500-260921
Address: 35362 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site: White Pine North Baseline Sampling	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300 0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) - tripli	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS)	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury	6020B - Dissolved Metals (ICP/MS) - 27 elements	1638 - Dissolved Uranium only (ICP/MS) (field f	1631E - Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME - Dissolved Methyl Mercury (field filtered)	5310C - TOC	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A	S		
5	PRC-02_20241202	12-2-24	12:20		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	V	22	
6	PRC-02_20241202_FBLL	12-2-24	12 20		Water										X							2	
7	NTC-01_20241202	12-2-24	10.40		Water			X	X	X	X	X	X	X	X	X	[illegible]	X	X	X	X	22	
8	NTC-01_20241202_FBLL	12-2-24	1040		Water										X							2	
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III IV Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment: Fedex Priority Overnight

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Madison Ely	12-3-24 1300	MSG	4221 9522 2454	12-3-24 1300	Fedex
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
			Stephanie Hemamo	12/4/24 0930	EEA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Maddy Strong	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4221 9522 1620	COC No: 500-127995-50241 13
Client Contact: Amanda Zeidler	Phone: 715 587 4059	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper	PWSID:			Job #: 500-261921
Address: 35503 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine, MI	Project #: 50023455			
Site	SSOW#:			

Analysis Requested

Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL; Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) and SM5310C - Organic Carbon Total (TOC)	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS) Total	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury - Total	6020B - Dissolved Metals (ICP/MS) - 27 elements (field filtered)	1638 - Dissolved Uranium only (ICP/MS) (field filtered)	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A		
9	NB2-3_20241202	12-2-24	1715	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X	22
10	NB2-3_20241202_FBLL	12-2-24	1715	G	Water										X							2
11	NB2-1_20241202	12-2-24	1620	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X		22
12	NB2-1_20241202_FBLL	12-2-24	1620	G	Water										X							2
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	
				G	Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MDLs must meet Michigan requirements

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fedex Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	12-3-24 1300	MSG	4221 9522 1620	12-3-24 1300	Fedex
2		Date/Time	Company	[signature] Stephanie Hemmer	12/4/24 0930	EEHA
3		Date/Time:	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No: | Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4221 9522 2432	COC No: 500-130281-50241 40
Client Contact: Amanda Zeidler	Phone: 906.487.7454	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper LLC	PWSID:			Job #: 500-260921
Address: 35362 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site: White Pine North Baseline Sampling	SSOW#:			

Analysis Requested

Preservation Codes:
S H2SO4
N - None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A - HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) - tripli	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS)	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury	6020B - Dissolved Metals (ICP/MS) - 27 elements	1638 - Dissolved Uranium only (ICP/MS) (field f	1631E - Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME - Dissolved Methyl Mercury (field filtered)	5310C - TOC	Total Number of containers	Special Instructions/Note.
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A	S		
13	MLC-01_2024 1202	12-2-24	15:10	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X	12	
14	MLC-01_2024 1202_FBLL	12-2-24	15:10	G	Water										X							2	
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Fedex Priority overnight

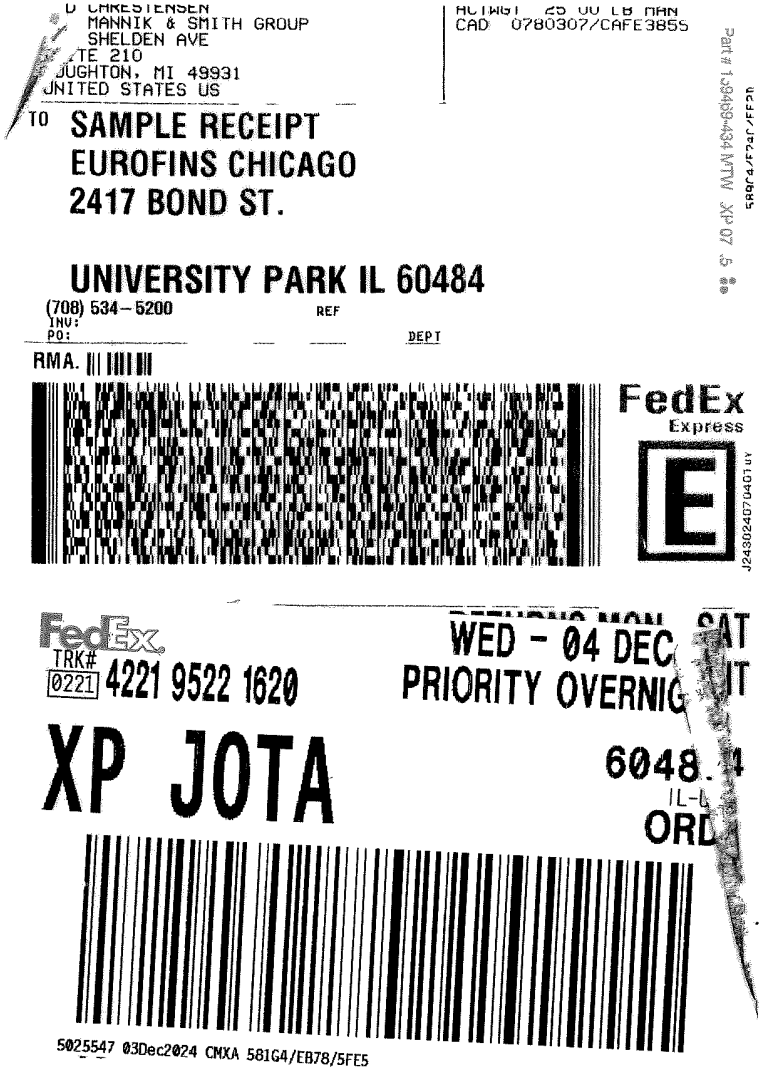
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	12-3 24 0700	MSG		12-3-24 0700	MSG
2		12-3 24 1300	MSG	4221 9522 2432	12-3-24 1300	Fedex
3		Date/Time:	Company	Received by: Stephanie Homan	Date/Time: 12/4/24 0930	Company EET

Custody Seals Intact Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks


SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:
RMA
FedEx Express
TRK# 0221 4221 9522 2454
RETURNS MON-SAT
PRIORITY OVERNIGHT
WED - 04 DEC AA
XP JOTA
60484
IL-US
ORD
5025547 03Dec2024 CMXA 581G4/EB78/5FE5


JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF
DEPT
RMA
FedEx Express
TRK# 0221 4221 9522 2432
RETURNS MON-SAT
PRIORITY OVERNIGHT
WED - 04 DEC AA
XP JOTA
60484
IL-US
ORD
5025547 03Dec2024 CMXA 581G4/EB78/5FE5


SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
CAD 0780307/CAFE3855
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO
REF
DEPT
RMA
FedEx Express
TRK# 0221 4221 9522 2443
WED - 04 DEC AA
PRIORITY OVERNIGHT
XP JOTA
60484
IL-US
ORD
5025547 03Dec2024 CMXA 581G4/EB78/5FE5


MANNIK & SMITH GROUP
SHELDEN AVE
TE 210
JUGHTON, MI 49931
JNITED STATES US
CAD 0780307/CAFE3855
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF
DEPT
RMA
FedEx Express
TRK# 0221 4221 9522 1620
PRIORITY OVERNIG
XP JOTA
ORD
5025547 03Dec2024 CMXA 581G4/EB78/5FE5

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): N/A	COC No: 500-195857.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): N/A		Job #: 500-260921-1
Address: 5755 8th Street East, ,	Due Date Requested: 12/26/2024			
City: Tacoma	TAT Requested (days): N/A			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: White Pines, MI	Project #: 50023455			
Site: N/A	SSOW#: N/A			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total	Special Instructions/Note:
Preservation Code:														
DUP-01-SW_20241202 (500-260921-1)	12/2/24	23:59 Eastern	G	Water			X	X	X	X	X	X	8	
DUP-01-SW_20241202_FBLL (500-260921-2)	12/2/24	23:59 Eastern	G	Water				X					2	
MLR-03_20241202 (500-260921-3)	12/2/24	14:00 Eastern	G	Water			X	X	X	X	X	X	8	
MLR-03_20241202_FBLL (500-260921-4)	12/2/24	14:00 Eastern	G	Water				X					2	
PRC-02_20241202 (500-260921-5)	12/2/24	12:20 Eastern	G	Water			X	X	X	X	X	X	8	
PRC-02_20241202_FBLL (500-260921-6)	12/2/24	12:20 Eastern	G	Water				X					2	
NTC-01_20241202 (500-260921-7)	12/2/24	10:40 Eastern	G	Water			X	X	X	X	X	X	8	
NTC-01_20241202_FBLL (500-260921-8)	12/2/24	10:40 Eastern	G	Water				X					2	
NB2-3_20241202 (500-260921-9)	12/2/24	17:15 Eastern	G	Water			X	X	X	X	X	X	8	

Cooler ID: SC03 Cust. Seal: (Y) / N
Incorr./Corr. Temp: 4.1 / 0.0 °C
Delivery: UPS / FedEx / Other: ____
Type: Blue / Dry / Wet / None
Label Ver.: 12 Packing: 5 Grey

Cooler ID: SC04 Cust. Seal: (Y) / N
Incorr./Corr. Temp: 4.3 / 0.0 °C
Delivery: UPS / FedEx / Other: ____
Type: Blue / Dry / Wet / None
Label Ver.: M Packing: ____
5m Blue

Cooler ID: SC03 Cust. Seal: (Y) / N
Incorr./Corr. Temp: 3.7 / 0.0 °C
Delivery: UPS / FedEx / Other: ____
Type: Blue / Dry / Wet / None
Label Ver.: 12 Packing: 13
5m White

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins C immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification: Unconfirmed 7051 7621 7065	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: S. Hernandez	Date/Time: 12/4/24 1000	Company	Received by:	Date/Time: 12/5/24 10:10	Company: FTN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

12/31/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): N/A	COC No: 500-195857.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): N/A		Job #: 500-260921-1
Address: 5755 8th Street East, ,	Due Date Requested: 12/26/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days): N/A			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: White Pines, MI	Project #: 50023455			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
NB2-3_20241202_FBLL (500-260921-10)	12/2/24	17:15 Eastern	G	Water				X					2	
NB2-1_20241202 (500-260921-11)	12/2/24	16:20 Eastern	G	Water			X	X	X	X	X	X	8	
NB2-1_20241202_FBLL (500-260921-12)	12/2/24	16:20 Eastern	G	Water				X					2	
MLC-01_20241202 (500-260921-13)	12/2/24	15:10 Eastern	G	Water			X	X	X	X	X	X	8	
MLC-01_20241202-FBLL (500-260921-14)	12/2/24	15:10 Eastern	G	Water				X					2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Stephanie Hernandez	12/14/24 1600			12/5/24 10:20	FEDEX
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-260921-1

Login Number: 260921
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5,5.0,4.7,3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-260921-1

Login Number: 260921
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 12/05/24 01:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

500-260921 Field Sheet

Date:	12/5/2024
End Time:	14:14
KI Paper Lot:	na
Analyst:	VL

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	34379
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-260921-A-1	A	Y	.8	2	
500-260921-B-1	A	Y	.8	2	
500-260921-C-1	A	Y	.8	2	
500-260921-D-1	A	Y	.8	2	
500-260921-A-2	A	Y	.8	2	
500-260921-A-3	A	Y	.8	2	
500-260921-B-3	A	Y	.8	2	
500-260921-C-3	A	Y	.8	2	
500-260921-D-3	A	Y	.8	2	
500-260921-A-4	A	Y	.8	2	
500-260921-B-4	A	Y	.8	2	
500-260921-A-5	A	Y	.8	2	
500-260921-B-5	A	Y	.8	2	
500-260921-C-5	A	Y	.8	2	VL 12/5/24
500-260921-D-5	A	Y	.8	2	
500-260921-A-6	A	Y	.8	2	
500-260921-B-6	A	Y	.8	2	
500-260921-A-7	A	Y	.8	2	
500-260921-B-7	A	Y	.8	2	
500-260921-C-7	A	Y	.8	2	
500-260921-D-7	A	Y	.8	2	
500-260921-A-8	A	Y	.8	2	
500-260921-B-8	A	Y	.8	2	
500-260921-A-9	A	Y	.8	2	
500-260921-B-9	A	Y	.8	2	
500-260921-D-9	A	Y	.8	2	
500-260921-C-9	A	Y	.8	2	
500-260921-A-10	A	Y	.8	2	
500-260921-B-10	A	Y	.8	2	
500-260921-A-11	A	Y	.8	2	
500-260921-B-11	A	Y	.8	2	
500-260921-C-11	A	Y	.8	2	
500-260921-D-11	A	Y	.8	2	
500-260921-A-12	A	Y	.8	2	
500-260921-B-12	A	Y	.8	2	

eurofins | Environment Testing

Date:	12/5/2024
End Time:	14:14
KI Paper Lot:	na
Analyst:	VZ

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	34379
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-260921-A-12	A	Y	.4	2	
500-260921-B-12	A	Y	.4	2	
500-260921-A-13	A	Y	.4	2	
500-260921-B-13	A	Y	.4	2	
500-260921-C-13	A	Y	.4	2	12/5-/24
500-260921-D-13	A	Y	.4	2	
500-260921-A-14	A	Y	.4	2	
500-260921-B-14	A	Y	.4	2	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 12/31/2024 7:59:51 PM

JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-261013-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



Generated
12/31/2024 7:59:51 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job ID: 500-261013-1 — Eurofins Chicago

Job Narrative
500-261013-1

Receipt
The samples were received on 12/6/2024 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.5º C, 4.7º C and 5.7º C.

Receipt Exceptions
One or more containers for the following sample(s) was received broken or leaking: Sample #3 two of three TOC vials received broken. Analysis logged.

The following sample(s) was received outside of holding time: samples #1,3,5,7,9,and 11 for IC N2,N3.Sampled 12/3, recieved 12/6.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The following samples were received outside of holding time: MW-42_20241203 (500-261013-1), MW-38_20241203 (500-261013-3), MW-36_20241203 (500-261013-5), MW-35_20241203 (500-261013-7), MW-37_20241203 (500-261013-9) and MW-10_20241203 (500-261013-11).

Method SM 2320B: The method blank for analytical batch 500-798892 contained Alkalinity above the reporting limit (RL). Associated sample(s) were not re-analyzed because results were greater than 10X the value found in the method blank.

Method SM 2320B: The method blank for analytical batch 500-798893 contained Alkalinity above the reporting limit (RL). Associated sample(s) were not re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-42_20241203 — Lab Sample ID: 500-261013-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	2.6		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	1.6		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	7.5		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	7.4		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	1000		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	4.0		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	15		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	670		50	13	ug/L	1		6020B	Total Recoverable
Calcium	2700		200	44	ug/L	1		6020B	Total Recoverable
Chromium	1.7	J	5.0	1.1	ug/L	1		6020B	Total Recoverable
Cobalt	0.53	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	8.6		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	910		100	47	ug/L	1		6020B	Total Recoverable
Lead	0.39	J	0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	15		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	400		200	49	ug/L	1		6020B	Total Recoverable
Manganese	24		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	12		5.0	2.5	ug/L	1		6020B	Total Recoverable
Nickel	0.78	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	510		500	110	ug/L	1		6020B	Total Recoverable
Sodium	68000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	34		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	20		5.0	2.2	ug/L	1		6020B	Total Recoverable
Zinc	24		20	6.9	ug/L	1		6020B	Total Recoverable
Arsenic	3.8		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	4.9		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	680		50	13	ug/L	1		6020B	Dissolved
Calcium	2600		200	44	ug/L	1		6020B	Dissolved
Copper	4.0		2.0	0.50	ug/L	1		6020B	Dissolved
Lithium	14		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	120	J	200	49	ug/L	1		6020B	Dissolved
Molybdenum	12		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	220	J	500	110	ug/L	1		6020B	Dissolved
Sodium	70000		200	77	ug/L	1		6020B	Dissolved
Strontium	33		4.0	0.64	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-42_20241203 (Continued) — Lab Sample ID: 500-261013-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	18		5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	8.4		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Nitrate as N	0.52	J H3	1.0	0.37	mg/L	1		300.0	Total/NA
Chloride	1.1		1.0	0.42	mg/L	1		300.0	Total/NA
Fluoride	1.2		1.0	0.43	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.52	J H3	1.0	0.37	mg/L	1		300.0	Total/NA
Sulfate	14		1.0	0.47	mg/L	1		300.0	Total/NA
Phosphorus as P	0.28		0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	160	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	160	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	190		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.0	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Sulfide	0.58	J	1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	2.3		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	2.3		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-42_20241203_FBLL — Lab Sample ID: 500-261013-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.42	J	0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: MW-38_20241203 — Lab Sample ID: 500-261013-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.70		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.51		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	4.8		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	4.9		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	36	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.52	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	81		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	360		50	13	ug/L	1		6020B	Total Recoverable
Calcium	33000		200	44	ug/L	1		6020B	Total Recoverable
Copper	2.3		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	54	J	100	47	ug/L	1		6020B	Total Recoverable
Lead	0.19	J	0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	30		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	2400		200	49	ug/L	1		6020B	Total Recoverable
Manganese	53		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	22		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	820		500	110	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-38_20241203 (Continued) — Lab Sample ID: 500-261013-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	88000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	540		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	7.3		5.0	2.2	ug/L	1		6020B	Total Recoverable
Aluminum	39	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.53	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	82		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	370		50	13	ug/L	1		6020B	Dissolved
Calcium	34000		200	44	ug/L	1		6020B	Dissolved
Copper	2.2		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	56	J	100	47	ug/L	1		6020B	Dissolved
Lead	0.19	J	0.50	0.19	ug/L	1		6020B	Dissolved
Lithium	31		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	2500		200	49	ug/L	1		6020B	Dissolved
Manganese	52		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	22		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	860		500	110	ug/L	1		6020B	Dissolved
Sodium	90000		200	77	ug/L	1		6020B	Dissolved
Strontium	550		4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	7.4		5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	91		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.64	J	1.0	0.45	mg/L	1		300.0	Total/NA
Chloride	58		5.0	2.1	mg/L	5		300.0	Total/NA
Fluoride	0.76	J	1.0	0.43	mg/L	1		300.0	Total/NA
Sulfate	25		1.0	0.47	mg/L	1		300.0	Total/NA
Alkalinity	170	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	170	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	320		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.1		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	2.0		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-38_20241203_FBLL — Lab Sample ID: 500-261013-4

No Detections.

Client Sample ID: MW-36_20241203 — Lab Sample ID: 500-261013-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.76		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.46	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.37		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.29		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	25	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	1.2		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	310		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	120		50	13	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-36_20241203 (Continued) — Lab Sample ID: 500-261013-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	99000		200	44	ug/L	1		6020B	Total Recoverable
Copper	2.0		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	1000		100	47	ug/L	1		6020B	Total Recoverable
Lithium	20		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	12000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	310		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	440	J	500	110	ug/L	1		6020B	Total Recoverable
Sodium	32000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	1200		4.0	0.64	ug/L	1		6020B	Total Recoverable
Zinc	9.4	J	20	6.9	ug/L	1		6020B	Total Recoverable
Arsenic	0.84	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	330		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	110		50	13	ug/L	1		6020B	Dissolved
Calcium	100000		200	44	ug/L	1		6020B	Dissolved
Copper	0.76	J	2.0	0.50	ug/L	1		6020B	Dissolved
Iron	1000		100	47	ug/L	1		6020B	Dissolved
Lithium	20		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	13000		200	49	ug/L	1		6020B	Dissolved
Manganese	580		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	430	J	500	110	ug/L	1		6020B	Dissolved
Sodium	30000		200	77	ug/L	1		6020B	Dissolved
Strontium	1100		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	300		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.59	J	1.0	0.45	mg/L	1		300.0	Total/NA
Chloride	42		1.0	0.42	mg/L	1		300.0	Total/NA
Sulfate	0.60	J	1.0	0.47	mg/L	1		300.0	Total/NA
Alkalinity	290	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	290	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	390		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	4.6	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	6.7		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	6.9		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-36_20241203_FBLL — Lab Sample ID: 500-261013-6

No Detections.

Client Sample ID: MW-35_20241203 — Lab Sample ID: 500-261013-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.5		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.55		0.50	0.20	ng/L	1		1631E	Dissolved
Chloride	0.78	J	1.0	0.42	mg/L	1		300.0	Total/NA
Sulfate	7.5		1.0	0.47	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-35_20241203 (Continued) — Lab Sample ID: 500-261013-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity	260	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	260	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	320		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	19		5.0	1.9	mg/L	1		SM 2540D	Total/NA

Client Sample ID: MW-35_20241203_FBLL — Lab Sample ID: 500-261013-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.23	J	0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: MW-37_20241203 — Lab Sample ID: 500-261013-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.028	J	0.050	0.022	ng/L	1		1630	Total/NA
Mercury	6.5		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.37	J	0.50	0.20	ng/L	1		1631E	Dissolved
Aluminum	800		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	1.7		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	85		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	320		50	13	ug/L	1		6020B	Total Recoverable
Calcium	74000		200	44	ug/L	1		6020B	Total Recoverable
Chromium	2.9	J	5.0	1.1	ug/L	1		6020B	Total Recoverable
Cobalt	0.68	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	3.1		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	990		100	47	ug/L	1		6020B	Total Recoverable
Lead	0.37	J	0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	16		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	13000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	150		2.5	0.79	ug/L	1		6020B	Total Recoverable
Nickel	0.97	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	1900		500	110	ug/L	1		6020B	Total Recoverable
Sodium	13000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	600		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	5.8		5.0	2.2	ug/L	1		6020B	Total Recoverable
Zinc	22		20	6.9	ug/L	1		6020B	Total Recoverable
Hardness as calcium carbonate	240		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Nitrate as N	0.56	J H3	1.0	0.37	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-37_20241203 (Continued) — Lab Sample ID: 500-261013-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	21		1.0	0.42	mg/L	1		300.0	Total/NA
Fluoride	0.50	J	1.0	0.43	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.56	J H3	1.0	0.37	mg/L	1		300.0	Total/NA
Sulfate	2.2		1.0	0.47	mg/L	1		300.0	Total/NA
Alkalinity	220	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	220	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	280		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	120		13	4.8	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	1.3		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	1.7		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-37_20241203_FBLL — Lab Sample ID: 500-261013-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.20	J	0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: MW-10_20241203 — Lab Sample ID: 500-261013-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	3.1		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	1.4		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	7.9		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	7.6		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	160		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.43	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	2500		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	190		50	13	ug/L	1		6020B	Total Recoverable
Cadmium	0.21	J	0.50	0.17	ug/L	1		6020B	Total Recoverable
Calcium	330000		200	44	ug/L	1		6020B	Total Recoverable
Cobalt	1.3		1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	2.5		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	1000		100	47	ug/L	1		6020B	Total Recoverable
Lithium	48		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	81000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	5700		2.5	0.79	ug/L	1		6020B	Total Recoverable
Nickel	0.96	J	2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	2200		500	110	ug/L	1		6020B	Total Recoverable
Sodium	51000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	3100		4.0	0.64	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-10_20241203 (Continued) — Lab Sample ID: 500-261013-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	3.1	J	5.0	2.2	ug/L	1		6020B	Total Recoverable
Arsenic	0.28	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	2500		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	180		50	13	ug/L	1		6020B	Dissolved
Calcium	320000		200	44	ug/L	1		6020B	Dissolved
Cobalt	1.0		1.0	0.40	ug/L	1		6020B	Dissolved
Iron	790		100	47	ug/L	1		6020B	Dissolved
Lithium	49		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	80000		200	49	ug/L	1		6020B	Dissolved
Manganese	5100		2.5	0.79	ug/L	1		6020B	Dissolved
Nickel	0.64	J	2.0	0.63	ug/L	1		6020B	Dissolved
Potassium	2500		500	110	ug/L	1		6020B	Dissolved
Sodium	48000		200	77	ug/L	1		6020B	Dissolved
Strontium	3000		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	1200		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	4.9		1.0	0.45	mg/L	1		300.0	Total/NA
Chloride	450		50	21	mg/L	50		300.0	Total/NA
Sulfate	11		1.0	0.47	mg/L	1		300.0	Total/NA
Alkalinity	490	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	490	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Salinity	1.3		0.33	0.33	psu	1		SM 2520B	Total/NA
Total Dissolved Solids	1700		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	5.2		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	4.9		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	4.7		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-10_20241203_FBLL — Lab Sample ID: 500-261013-12

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-261013-1	MW-42_20241203	Water	12/03/24 14:35	12/06/24 09:35
500-261013-2	MW-42_20241203_FBLL	Water	12/03/24 14:35	12/06/24 09:35
500-261013-3	MW-38_20241203	Water	12/03/24 13:30	12/06/24 09:35
500-261013-4	MW-38_20241203_FBLL	Water	12/03/24 13:30	12/06/24 09:35
500-261013-5	MW-36_20241203	Water	12/03/24 15:20	12/06/24 09:35
500-261013-6	MW-36_20241203_FBLL	Water	12/03/24 15:20	12/06/24 09:35
500-261013-7	MW-35_20241203	Water	12/03/24 16:30	12/06/24 09:35
500-261013-8	MW-35_20241203_FBLL	Water	12/03/24 16:30	12/06/24 09:35
500-261013-9	MW-37_20241203	Water	12/03/24 13:40	12/06/24 09:35
500-261013-10	MW-37_20241203_FBLL	Water	12/03/24 13:40	12/06/24 09:35
500-261013-11	MW-10_20241203	Water	12/03/24 17:40	12/06/24 09:35
500-261013-12	MW-10_20241203_FBLL	Water	12/03/24 17:40	12/06/24 09:35

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-42_20241203

Date Collected: 12/03/24 14:35
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 20:08	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 20:39	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.6**		0.50	0.20	ng/L			12/17/24 18:30	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.6**		0.50	0.20	ng/L			12/17/24 18:35	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**7.5**		0.050	0.0098	ug/L		12/26/24 10:17	12/30/24 10:49	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**7.4**		0.050	0.0098	ug/L		12/26/24 10:17	12/30/24 10:53	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1000**		100	25	ug/L		12/17/24 08:17	12/18/24 17:49	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:17	12/18/24 17:49	1
Arsenic	**4.0**		1.0	0.23	ug/L		12/17/24 08:17	12/18/24 17:49	1
Barium	**15**		2.5	0.73	ug/L		12/17/24 08:17	12/18/24 17:49	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:17	12/18/24 17:49	1
Boron	**670**		50	13	ug/L		12/17/24 08:17	12/18/24 17:49	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:17	12/18/24 17:49	1
Calcium	**2700**		200	44	ug/L		12/17/24 08:17	12/18/24 17:49	1
Chromium	**1.7**	**J**	5.0	1.1	ug/L		12/17/24 08:17	12/18/24 17:49	1
Cobalt	**0.53**	**J**	1.0	0.40	ug/L		12/17/24 08:17	12/18/24 17:49	1
Copper	**8.6**		2.0	0.50	ug/L		12/17/24 08:17	12/18/24 17:49	1
Iron	**910**		100	47	ug/L		12/17/24 08:17	12/18/24 17:49	1
Lead	**0.39**	**J**	0.50	0.19	ug/L		12/17/24 08:17	12/18/24 17:49	1
Lithium	**15**		10	2.5	ug/L		12/17/24 08:17	12/18/24 17:49	1
Magnesium	**400**		200	49	ug/L		12/17/24 08:17	12/18/24 17:49	1
Manganese	**24**		2.5	0.79	ug/L		12/17/24 08:17	12/18/24 17:49	1
Molybdenum	**12**		5.0	2.5	ug/L		12/17/24 08:17	12/18/24 17:49	1
Nickel	**0.78**	**J**	2.0	0.63	ug/L		12/17/24 08:17	12/18/24 17:49	1
Potassium	**510**		500	110	ug/L		12/17/24 08:17	12/18/24 17:49	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:17	12/18/24 17:49	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:17	12/18/24 17:49	1
Sodium	**68000**		200	77	ug/L		12/17/24 08:17	12/18/24 17:49	1
Strontium	**34**		4.0	0.64	ug/L		12/17/24 08:17	12/18/24 17:49	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:17	12/18/24 17:49	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:17	12/18/24 17:49	1
Vanadium	**20**		5.0	2.2	ug/L		12/17/24 08:17	12/18/24 17:49	1
Zinc	**24**		20	6.9	ug/L		12/17/24 08:17	12/18/24 17:49	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-42_20241203

Date Collected: 12/03/24 14:35
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/17/24 08:17	12/18/24 18:01	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:17	12/18/24 18:01	1
Arsenic	**3.8**		1.0	0.23	ug/L		12/17/24 08:17	12/18/24 18:01	1
Barium	**4.9**		2.5	0.73	ug/L		12/17/24 08:17	12/18/24 18:01	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:17	12/18/24 18:01	1
Boron	**680**		50	13	ug/L		12/17/24 08:17	12/18/24 18:01	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:17	12/18/24 18:01	1
Calcium	**2600**		200	44	ug/L		12/17/24 08:17	12/18/24 18:01	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:17	12/18/24 18:01	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:17	12/18/24 18:01	1
Copper	**4.0**		2.0	0.50	ug/L		12/17/24 08:17	12/18/24 18:01	1
Iron	<47		100	47	ug/L		12/17/24 08:17	12/18/24 18:01	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:17	12/18/24 18:01	1
Lithium	**14**		10	2.5	ug/L		12/17/24 08:17	12/18/24 18:01	1
Magnesium	**120**	**J**	200	49	ug/L		12/17/24 08:17	12/18/24 18:01	1
Manganese	<0.79		2.5	0.79	ug/L		12/17/24 08:17	12/18/24 18:01	1
Molybdenum	**12**		5.0	2.5	ug/L		12/17/24 08:17	12/18/24 18:01	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:17	12/18/24 18:01	1
Potassium	**220**	**J**	500	110	ug/L		12/17/24 08:17	12/18/24 18:01	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:17	12/18/24 18:01	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:17	12/18/24 18:01	1
Sodium	**70000**		200	77	ug/L		12/17/24 08:17	12/18/24 18:01	1
Strontium	**33**		4.0	0.64	ug/L		12/17/24 08:17	12/18/24 18:01	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:17	12/18/24 18:01	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:17	12/18/24 18:01	1
Vanadium	**18**		5.0	2.2	ug/L		12/17/24 08:17	12/18/24 18:01	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:17	12/18/24 18:01	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**8.4**		0.91	0.46	mg/L		12/17/24 08:17	12/19/24 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.45		1.0	0.45	mg/L			12/07/24 15:58	1
Nitrate as N (EPA 300.0)	**0.52**	**J H3**	1.0	0.37	mg/L			12/07/24 15:58	1
Chloride (EPA 300.0)	**1.1**		1.0	0.42	mg/L			12/07/24 15:58	1
Nitrite as N (EPA 300.0)	<0.25	H3	1.0	0.25	mg/L			12/07/24 15:58	1
Fluoride (EPA 300.0)	**1.2**		1.0	0.43	mg/L			12/07/24 15:58	1
Nitrate Nitrite as N (EPA 300.0)	**0.52**	**J H3**	1.0	0.37	mg/L			12/07/24 15:58	1
Sulfate (EPA 300.0)	**14**		1.0	0.47	mg/L			12/07/24 15:58	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/08/24 08:57	12/08/24 10:34	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/20/24 11:36	12/20/24 15:57	1
Phosphorus as P (EPA 365.1)	**0.28**		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 10:58	1
Alkalinity (SM 2320B)	**160**	**B**	5.0	3.7	mg/L			12/09/24 16:33	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**160**	**B**	5.0	3.7	mg/L			12/09/24 16:33	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 16:33	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/08/24 14:12	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-42_20241203
Date Collected: 12/03/24 14:35
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	190		10	4.3	mg/L			12/10/24 05:16	1
Total Suspended Solids (SM 2540D)	4.0	J	5.0	1.9	mg/L			12/09/24 15:59	1
Sulfide (SM 4500 S2 F)	0.58	J	1.0	0.23	mg/L			12/10/24 00:03	1
Total Organic Carbon (SM 5310C)	2.3		1.0	0.47	mg/L			12/08/24 21:10	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	2.3		1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-42_20241203_FBLL
Date Collected: 12/03/24 14:35
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-2
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.42	J	0.50	0.20	ng/L			12/17/24 18:39	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-38_20241203

Date Collected: 12/03/24 13:30
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-3

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 20:49	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 20:59	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.70**		0.50	0.20	ng/L			12/17/24 18:51	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.51**		0.50	0.20	ng/L			12/17/24 18:55	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**4.8**		0.050	0.0098	ug/L		12/26/24 10:17	12/30/24 10:25	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**4.9**		0.050	0.0098	ug/L		12/26/24 10:17	12/30/24 10:56	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**36**	**J**	100	25	ug/L		12/17/24 08:17	12/18/24 17:51	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:17	12/18/24 17:51	1
Arsenic	**0.52**	**J**	1.0	0.23	ug/L		12/17/24 08:17	12/18/24 17:51	1
Barium	**81**		2.5	0.73	ug/L		12/17/24 08:17	12/18/24 17:51	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:17	12/18/24 17:51	1
Boron	**360**		50	13	ug/L		12/17/24 08:17	12/18/24 17:51	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:17	12/18/24 17:51	1
Calcium	**33000**		200	44	ug/L		12/17/24 08:17	12/18/24 17:51	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:17	12/18/24 17:51	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:17	12/18/24 17:51	1
Copper	**2.3**		2.0	0.50	ug/L		12/17/24 08:17	12/18/24 17:51	1
Iron	**54**	**J**	100	47	ug/L		12/17/24 08:17	12/18/24 17:51	1
Lead	**0.19**	**J**	0.50	0.19	ug/L		12/17/24 08:17	12/18/24 17:51	1
Lithium	**30**		10	2.5	ug/L		12/17/24 08:17	12/18/24 17:51	1
Magnesium	**2400**		200	49	ug/L		12/17/24 08:17	12/18/24 17:51	1
Manganese	**53**		2.5	0.79	ug/L		12/17/24 08:17	12/18/24 17:51	1
Molybdenum	**22**		5.0	2.5	ug/L		12/17/24 08:17	12/18/24 17:51	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:17	12/18/24 17:51	1
Potassium	**820**		500	110	ug/L		12/17/24 08:17	12/18/24 17:51	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:17	12/18/24 17:51	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:17	12/18/24 17:51	1
Sodium	**88000**		200	77	ug/L		12/17/24 08:17	12/18/24 17:51	1
Strontium	**540**		4.0	0.64	ug/L		12/17/24 08:17	12/18/24 17:51	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:17	12/18/24 17:51	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:17	12/18/24 17:51	1
Vanadium	**7.3**		5.0	2.2	ug/L		12/17/24 08:17	12/18/24 17:51	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:17	12/18/24 17:51	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-38_20241203

Date Collected: 12/03/24 13:30
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-3

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**39**	**J**	100	25	ug/L		12/17/24 08:17	12/18/24 18:04	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:17	12/18/24 18:04	1
Arsenic	**0.53**	**J**	1.0	0.23	ug/L		12/17/24 08:17	12/18/24 18:04	1
Barium	**82**		2.5	0.73	ug/L		12/17/24 08:17	12/18/24 18:04	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:17	12/18/24 18:04	1
Boron	**370**		50	13	ug/L		12/17/24 08:17	12/18/24 18:04	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:17	12/18/24 18:04	1
Calcium	**34000**		200	44	ug/L		12/17/24 08:17	12/18/24 18:04	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:17	12/18/24 18:04	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:17	12/18/24 18:04	1
Copper	**2.2**		2.0	0.50	ug/L		12/17/24 08:17	12/18/24 18:04	1
Iron	**56**	**J**	100	47	ug/L		12/17/24 08:17	12/18/24 18:04	1
Lead	**0.19**	**J**	0.50	0.19	ug/L		12/17/24 08:17	12/18/24 18:04	1
Lithium	**31**		10	2.5	ug/L		12/17/24 08:17	12/18/24 18:04	1
Magnesium	**2500**		200	49	ug/L		12/17/24 08:17	12/18/24 18:04	1
Manganese	**52**		2.5	0.79	ug/L		12/17/24 08:17	12/18/24 18:04	1
Molybdenum	**22**		5.0	2.5	ug/L		12/17/24 08:17	12/18/24 18:04	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:17	12/18/24 18:04	1
Potassium	**860**		500	110	ug/L		12/17/24 08:17	12/18/24 18:04	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:17	12/18/24 18:04	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:17	12/18/24 18:04	1
Sodium	**90000**		200	77	ug/L		12/17/24 08:17	12/18/24 18:04	1
Strontium	**550**		4.0	0.64	ug/L		12/17/24 08:17	12/18/24 18:04	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:17	12/18/24 18:04	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:17	12/18/24 18:04	1
Vanadium	**7.4**		5.0	2.2	ug/L		12/17/24 08:17	12/18/24 18:04	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:17	12/18/24 18:04	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**91**		0.91	0.46	mg/L		12/17/24 08:17	12/19/24 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.64**	**J**	1.0	0.45	mg/L			12/07/24 16:14	1
Nitrate as N (EPA 300.0)	<0.37	H3	1.0	0.37	mg/L			12/07/24 16:14	1
Chloride (EPA 300.0)	**58**		5.0	2.1	mg/L			12/27/24 01:22	5
Nitrite as N (EPA 300.0)	<0.25	H3	1.0	0.25	mg/L			12/07/24 16:14	1
Fluoride (EPA 300.0)	**0.76**	**J**	1.0	0.43	mg/L			12/07/24 16:14	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H3	1.0	0.37	mg/L			12/07/24 16:14	1
Sulfate (EPA 300.0)	**25**		1.0	0.47	mg/L			12/07/24 16:14	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/08/24 08:57	12/08/24 10:35	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/20/24 11:36	12/20/24 15:57	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 10:58	1
Alkalinity (SM 2320B)	**170**	**B**	5.0	3.7	mg/L			12/09/24 16:42	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**170**	**B**	5.0	3.7	mg/L			12/09/24 16:42	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 16:42	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/08/24 14:12	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-38_20241203
Date Collected: 12/03/24 13:30
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**320**		10	4.3	mg/L			12/10/24 05:19	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			12/09/24 16:03	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			12/10/24 00:06	1
Total Organic Carbon (SM 5310C)	**2.1**		1.0	0.47	mg/L			12/08/24 21:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**2.0**		1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-38_20241203_FBLL

Lab Sample ID: 500-261013-4

Date Collected: 12/03/24 13:30
Matrix: Water
Date Received: 12/06/24 09:35

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/17/24 19:00	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-36_20241203

Date Collected: 12/03/24 15:20
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-5

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 21:09	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 21:20	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.76**		0.50	0.20	ng/L			12/17/24 19:04	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.46**	**J**	0.50	0.20	ng/L			12/17/24 19:08	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.37**		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 13:25	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.29**		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 13:29	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**25**	**J**	100	25	ug/L		12/17/24 08:17	12/18/24 17:54	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:17	12/18/24 17:54	1
Arsenic	**1.2**		1.0	0.23	ug/L		12/17/24 08:17	12/18/24 17:54	1
Barium	**310**		2.5	0.73	ug/L		12/17/24 08:17	12/18/24 17:54	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:17	12/18/24 17:54	1
Boron	**120**		50	13	ug/L		12/17/24 08:17	12/18/24 17:54	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:17	12/18/24 17:54	1
Calcium	**99000**		200	44	ug/L		12/17/24 08:17	12/18/24 17:54	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:17	12/18/24 17:54	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:17	12/18/24 17:54	1
Copper	**2.0**		2.0	0.50	ug/L		12/17/24 08:17	12/18/24 17:54	1
Iron	**1000**		100	47	ug/L		12/17/24 08:17	12/18/24 17:54	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:17	12/18/24 17:54	1
Lithium	**20**		10	2.5	ug/L		12/17/24 08:17	12/18/24 17:54	1
Magnesium	**12000**		200	49	ug/L		12/17/24 08:17	12/18/24 17:54	1
Manganese	**310**		2.5	0.79	ug/L		12/17/24 08:17	12/18/24 17:54	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/17/24 08:17	12/18/24 17:54	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:17	12/18/24 17:54	1
Potassium	**440**	**J**	500	110	ug/L		12/17/24 08:17	12/18/24 17:54	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:17	12/18/24 17:54	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:17	12/18/24 17:54	1
Sodium	**32000**		200	77	ug/L		12/17/24 08:17	12/18/24 17:54	1
Strontium	**1200**		4.0	0.64	ug/L		12/17/24 08:17	12/18/24 17:54	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:17	12/18/24 17:54	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:17	12/18/24 17:54	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:17	12/18/24 17:54	1
Zinc	**9.4**	**J**	20	6.9	ug/L		12/17/24 08:17	12/18/24 17:54	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-36_20241203

Date Collected: 12/03/24 15:20
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-5

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/17/24 08:17	12/18/24 18:06	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:17	12/18/24 18:06	1
Arsenic	**0.84**	**J**	1.0	0.23	ug/L		12/17/24 08:17	12/18/24 18:06	1
Barium	**330**		2.5	0.73	ug/L		12/17/24 08:17	12/18/24 18:06	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:17	12/18/24 18:06	1
Boron	**110**		50	13	ug/L		12/17/24 08:17	12/18/24 18:06	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:17	12/18/24 18:06	1
Calcium	**100000**		200	44	ug/L		12/17/24 08:17	12/18/24 18:06	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:17	12/18/24 18:06	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:17	12/18/24 18:06	1
Copper	**0.76**	**J**	2.0	0.50	ug/L		12/17/24 08:17	12/18/24 18:06	1
Iron	**1000**		100	47	ug/L		12/17/24 08:17	12/18/24 18:06	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:17	12/18/24 18:06	1
Lithium	**20**		10	2.5	ug/L		12/17/24 08:17	12/18/24 18:06	1
Magnesium	**13000**		200	49	ug/L		12/17/24 08:17	12/18/24 18:06	1
Manganese	**580**		2.5	0.79	ug/L		12/17/24 08:17	12/18/24 18:06	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/17/24 08:17	12/18/24 18:06	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:17	12/18/24 18:06	1
Potassium	**430**	**J**	500	110	ug/L		12/17/24 08:17	12/18/24 18:06	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:17	12/18/24 18:06	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:17	12/18/24 18:06	1
Sodium	**30000**		200	77	ug/L		12/17/24 08:17	12/18/24 18:06	1
Strontium	**1100**		4.0	0.64	ug/L		12/17/24 08:17	12/18/24 18:06	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:17	12/18/24 18:06	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:17	12/18/24 18:06	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:17	12/18/24 18:06	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:17	12/18/24 18:06	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**300**		0.91	0.46	mg/L		12/17/24 08:17	12/19/24 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.59**	**J**	1.0	0.45	mg/L			12/07/24 17:01	1
Nitrate as N (EPA 300.0)	<0.37	H3	1.0	0.37	mg/L			12/07/24 17:01	1
Chloride (EPA 300.0)	**42**		1.0	0.42	mg/L			12/07/24 17:01	1
Nitrite as N (EPA 300.0)	<0.25	H3	1.0	0.25	mg/L			12/07/24 17:01	1
Fluoride (EPA 300.0)	<0.43		1.0	0.43	mg/L			12/07/24 17:01	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H3	1.0	0.37	mg/L			12/07/24 17:01	1
Sulfate (EPA 300.0)	**0.60**	**J**	1.0	0.47	mg/L			12/07/24 17:01	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/08/24 08:57	12/08/24 10:40	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/20/24 11:36	12/20/24 15:57	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 10:58	1
Alkalinity (SM 2320B)	**290**	**B**	5.0	3.7	mg/L			12/09/24 16:52	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**290**	**B**	5.0	3.7	mg/L			12/09/24 16:52	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 16:52	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/08/24 14:12	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-36_20241203
Date Collected: 12/03/24 15:20
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-5
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	390		10	4.3	mg/L			12/10/24 05:21	1
Total Suspended Solids (SM 2540D)	4.6	J	5.0	1.9	mg/L			12/09/24 16:12	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			12/10/24 00:09	1
Total Organic Carbon (SM 5310C)	6.7		1.0	0.47	mg/L			12/08/24 22:06	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	6.9		1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-36_20241203_FBLL

Lab Sample ID: 500-261013-6

Date Collected: 12/03/24 15:20

Matrix: Water

Date Received: 12/06/24 09:35

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/17/24 19:12	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-35_20241203

Lab Sample ID: 500-261013-7

Date Collected: 12/03/24 16:30

Matrix: Water

Date Received: 12/06/24 09:35

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 21:30	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 21:40	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.5**		0.50	0.20	ng/L			12/17/24 19:16	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.55**		0.50	0.20	ng/L			12/17/24 19:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.45		1.0	0.45	mg/L			12/07/24 17:16	1
Nitrate as N (EPA 300.0)	<0.37	H3	1.0	0.37	mg/L			12/07/24 17:16	1
Chloride (EPA 300.0)	**0.78**	**J**	1.0	0.42	mg/L			12/07/24 17:16	1
Nitrite as N (EPA 300.0)	<0.25	H3	1.0	0.25	mg/L			12/07/24 17:16	1
Fluoride (EPA 300.0)	<0.43		1.0	0.43	mg/L			12/07/24 17:16	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H3	1.0	0.37	mg/L			12/07/24 17:16	1
Sulfate (EPA 300.0)	**7.5**		1.0	0.47	mg/L			12/07/24 17:16	1
Alkalinity (SM 2320B)	**260**	**B**	5.0	3.7	mg/L			12/09/24 17:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**260**	**B**	5.0	3.7	mg/L			12/09/24 17:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 17:16	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/08/24 14:12	1
Total Dissolved Solids (SM 2540C)	**320**		10	4.3	mg/L			12/10/24 05:24	1
Total Suspended Solids (SM 2540D)	**19**		5.0	1.9	mg/L			12/09/24 16:16	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-35_20241203_FBLL
Date Collected: 12/03/24 16:30
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-8
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23	J	0.50	0.20	ng/L			12/17/24 20:47	1

Client Sample ID: MW-37_20241203
Date Collected: 12/03/24 13:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-9
Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	0.028	J	0.050	0.022	ng/L		12/13/24 10:32	12/13/24 21:50	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 22:00	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.5		0.50	0.20	ng/L			12/17/24 20:52	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.37	J	0.50	0.20	ng/L			12/17/24 20:56	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	800		100	25	ug/L		12/17/24 08:17	12/18/24 17:56	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:17	12/18/24 17:56	1
Arsenic	1.7		1.0	0.23	ug/L		12/17/24 08:17	12/18/24 17:56	1
Barium	85		2.5	0.73	ug/L		12/17/24 08:17	12/18/24 17:56	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:17	12/18/24 17:56	1
Boron	320		50	13	ug/L		12/17/24 08:17	12/18/24 17:56	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:17	12/18/24 17:56	1
Calcium	74000		200	44	ug/L		12/17/24 08:17	12/18/24 17:56	1
Chromium	2.9	J	5.0	1.1	ug/L		12/17/24 08:17	12/18/24 17:56	1
Cobalt	0.68	J	1.0	0.40	ug/L		12/17/24 08:17	12/18/24 17:56	1
Copper	3.1		2.0	0.50	ug/L		12/17/24 08:17	12/18/24 17:56	1
Iron	990		100	47	ug/L		12/17/24 08:17	12/18/24 17:56	1
Lead	0.37	J	0.50	0.19	ug/L		12/17/24 08:17	12/18/24 17:56	1
Lithium	16		10	2.5	ug/L		12/17/24 08:17	12/18/24 17:56	1
Magnesium	13000		200	49	ug/L		12/17/24 08:17	12/18/24 17:56	1
Manganese	150		2.5	0.79	ug/L		12/17/24 08:17	12/18/24 17:56	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/17/24 08:17	12/18/24 17:56	1
Nickel	0.97	J	2.0	0.63	ug/L		12/17/24 08:17	12/18/24 17:56	1
Potassium	1900		500	110	ug/L		12/17/24 08:17	12/18/24 17:56	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:17	12/18/24 17:56	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:17	12/18/24 17:56	1
Sodium	13000		200	77	ug/L		12/17/24 08:17	12/18/24 17:56	1
Strontium	600		4.0	0.64	ug/L		12/17/24 08:17	12/18/24 17:56	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:17	12/18/24 17:56	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:17	12/18/24 17:56	1
Vanadium	5.8		5.0	2.2	ug/L		12/17/24 08:17	12/18/24 17:56	1
Zinc	22		20	6.9	ug/L		12/17/24 08:17	12/18/24 17:56	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	240		0.91	0.46	mg/L		12/17/24 08:17	12/19/24 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.45		1.0	0.45	mg/L			12/07/24 17:32	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-37_20241203

Date Collected: 12/03/24 13:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-9

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	**0.56**	**J H3**	1.0	0.37	mg/L			12/07/24 17:32	1
Chloride (EPA 300.0)	**21**		1.0	0.42	mg/L			12/07/24 17:32	1
Nitrite as N (EPA 300.0)	<0.25	H3	1.0	0.25	mg/L			12/07/24 17:32	1
Fluoride (EPA 300.0)	**0.50**	**J**	1.0	0.43	mg/L			12/07/24 17:32	1
Nitrate Nitrite as N (EPA 300.0)	**0.56**	**J H3**	1.0	0.37	mg/L			12/07/24 17:32	1
Sulfate (EPA 300.0)	**2.2**		1.0	0.47	mg/L			12/07/24 17:32	1
Alkalinity (SM 2320B)	**220**	**B**	5.0	3.7	mg/L			12/09/24 17:25	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**220**	**B**	5.0	3.7	mg/L			12/09/24 17:25	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 17:25	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/08/24 14:12	1
Total Dissolved Solids (SM 2540C)	**280**		10	4.3	mg/L			12/10/24 05:26	1
Total Suspended Solids (SM 2540D)	**120**		13	4.8	mg/L			12/09/24 16:20	1
Total Organic Carbon (SM 5310C)	**1.3**		1.0	0.47	mg/L			12/08/24 22:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**1.7**		1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-37_20241203_FBLL
Date Collected: 12/03/24 13:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-10
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	J	0.50	0.20	ng/L			12/17/24 21:00	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-10_20241203

Lab Sample ID: 500-261013-11

Date Collected: 12/03/24 17:40

Matrix: Water

Date Received: 12/06/24 09:35

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 22:11	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 22:41	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**3.1**		0.50	0.20	ng/L			12/17/24 21:04	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.4**		0.50	0.20	ng/L			12/17/24 21:08	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**7.9**		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 12:58	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**7.6**		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 13:32	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**160**		100	25	ug/L		12/17/24 08:17	12/18/24 17:59	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:17	12/18/24 17:59	1
Arsenic	**0.43**	**J**	1.0	0.23	ug/L		12/17/24 08:17	12/18/24 17:59	1
Barium	**2500**		2.5	0.73	ug/L		12/17/24 08:17	12/18/24 17:59	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:17	12/18/24 17:59	1
Boron	**190**		50	13	ug/L		12/17/24 08:17	12/18/24 17:59	1
Cadmium	**0.21**	**J**	0.50	0.17	ug/L		12/17/24 08:17	12/18/24 17:59	1
Calcium	**330000**		200	44	ug/L		12/17/24 08:17	12/18/24 17:59	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:17	12/18/24 17:59	1
Cobalt	**1.3**		1.0	0.40	ug/L		12/17/24 08:17	12/18/24 17:59	1
Copper	**2.5**		2.0	0.50	ug/L		12/17/24 08:17	12/18/24 17:59	1
Iron	**1000**		100	47	ug/L		12/17/24 08:17	12/18/24 17:59	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:17	12/18/24 17:59	1
Lithium	**48**		10	2.5	ug/L		12/17/24 08:17	12/18/24 17:59	1
Magnesium	**81000**		200	49	ug/L		12/17/24 08:17	12/18/24 17:59	1
Manganese	**5700**		2.5	0.79	ug/L		12/17/24 08:17	12/18/24 17:59	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/17/24 08:17	12/18/24 17:59	1
Nickel	**0.96**	**J**	2.0	0.63	ug/L		12/17/24 08:17	12/18/24 17:59	1
Potassium	**2200**		500	110	ug/L		12/17/24 08:17	12/18/24 17:59	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:17	12/18/24 17:59	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:17	12/18/24 17:59	1
Sodium	**51000**		200	77	ug/L		12/17/24 08:17	12/18/24 17:59	1
Strontium	**3100**		4.0	0.64	ug/L		12/17/24 08:17	12/18/24 17:59	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:17	12/18/24 17:59	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:17	12/18/24 17:59	1
Vanadium	**3.1**	**J**	5.0	2.2	ug/L		12/17/24 08:17	12/18/24 17:59	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:17	12/18/24 17:59	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-10_20241203

Date Collected: 12/03/24 17:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-11

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/17/24 08:17	12/18/24 18:09	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:17	12/18/24 18:09	1
Arsenic	**0.28**	**J**	1.0	0.23	ug/L		12/17/24 08:17	12/18/24 18:09	1
Barium	**2500**		2.5	0.73	ug/L		12/17/24 08:17	12/18/24 18:09	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:17	12/18/24 18:09	1
Boron	**180**		50	13	ug/L		12/17/24 08:17	12/18/24 18:09	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:17	12/18/24 18:09	1
Calcium	**320000**		200	44	ug/L		12/17/24 08:17	12/18/24 18:09	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:17	12/18/24 18:09	1
Cobalt	**1.0**		1.0	0.40	ug/L		12/17/24 08:17	12/18/24 18:09	1
Copper	<0.50		2.0	0.50	ug/L		12/17/24 08:17	12/18/24 18:09	1
Iron	**790**		100	47	ug/L		12/17/24 08:17	12/18/24 18:09	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:17	12/18/24 18:09	1
Lithium	**49**		10	2.5	ug/L		12/17/24 08:17	12/18/24 18:09	1
Magnesium	**80000**		200	49	ug/L		12/17/24 08:17	12/18/24 18:09	1
Manganese	**5100**		2.5	0.79	ug/L		12/17/24 08:17	12/18/24 18:09	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/17/24 08:17	12/18/24 18:09	1
Nickel	**0.64**	**J**	2.0	0.63	ug/L		12/17/24 08:17	12/18/24 18:09	1
Potassium	**2500**		500	110	ug/L		12/17/24 08:17	12/18/24 18:09	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:17	12/18/24 18:09	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:17	12/18/24 18:09	1
Sodium	**48000**		200	77	ug/L		12/17/24 08:17	12/18/24 18:09	1
Strontium	**3000**		4.0	0.64	ug/L		12/17/24 08:17	12/18/24 18:09	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:17	12/18/24 18:09	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:17	12/18/24 18:09	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:17	12/18/24 18:09	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:17	12/18/24 18:09	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**1200**		0.91	0.46	mg/L		12/17/24 08:17	12/19/24 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**4.9**		1.0	0.45	mg/L			12/07/24 17:48	1
Nitrate as N (EPA 300.0)	<0.37	H3	1.0	0.37	mg/L			12/07/24 17:48	1
Chloride (EPA 300.0)	**450**		50	21	mg/L			12/27/24 01:37	50
Nitrite as N (EPA 300.0)	<0.25	H3	1.0	0.25	mg/L			12/07/24 17:48	1
Fluoride (EPA 300.0)	<0.43		1.0	0.43	mg/L			12/07/24 17:48	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H3	1.0	0.37	mg/L			12/07/24 17:48	1
Sulfate (EPA 300.0)	**11**		1.0	0.47	mg/L			12/07/24 17:48	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/08/24 08:57	12/08/24 10:42	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/20/24 11:36	12/20/24 15:58	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 10:59	1
Alkalinity (SM 2320B)	**490**	**B**	5.0	3.7	mg/L			12/09/24 17:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**490**	**B**	5.0	3.7	mg/L			12/09/24 17:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 17:34	1
Salinity (SM 2520B)	**1.3**		0.33	0.33	psu			12/22/24 15:01	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-10_20241203
Date Collected: 12/03/24 17:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-11
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1700		10	4.3	mg/L			12/10/24 05:29	1
Total Suspended Solids (SM 2540D)	5.2		5.0	1.9	mg/L			12/09/24 16:25	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			12/10/24 00:13	1
Total Organic Carbon (SM 5310C)	4.9		1.0	0.47	mg/L			12/08/24 23:03	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	4.7		1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-10_20241203_FBLL

Lab Sample ID: 500-261013-12

Date Collected: 12/03/24 17:40

Matrix: Water

Date Received: 12/06/24 09:35

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/17/24 21:21	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 3869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Dissolved	Water	1630	
500-261013-1	MW-42_20241203	Total/NA	Water	1630	
500-261013-3	MW-38_20241203	Dissolved	Water	1630	
500-261013-3	MW-38_20241203	Total/NA	Water	1630	
500-261013-5	MW-36_20241203	Dissolved	Water	1630	
500-261013-5	MW-36_20241203	Total/NA	Water	1630	
500-261013-7	MW-35_20241203	Dissolved	Water	1630	
500-261013-7	MW-35_20241203	Total/NA	Water	1630	
500-261013-9	MW-37_20241203	Dissolved	Water	1630	
500-261013-9	MW-37_20241203	Total/NA	Water	1630	
500-261013-11	MW-10_20241203	Dissolved	Water	1630	
500-261013-11	MW-10_20241203	Total/NA	Water	1630	
MB 350-3869/1-A	Method Blank	Total/NA	Water	1630	
MB 350-3869/2-A	Method Blank	Total/NA	Water	1630	
MB 350-3869/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-3869/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-3869/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 3916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Dissolved	Water	1630	3869
500-261013-1	MW-42_20241203	Total/NA	Water	1630	3869
500-261013-3	MW-38_20241203	Dissolved	Water	1630	3869
500-261013-3	MW-38_20241203	Total/NA	Water	1630	3869
500-261013-5	MW-36_20241203	Dissolved	Water	1630	3869
500-261013-5	MW-36_20241203	Total/NA	Water	1630	3869
500-261013-7	MW-35_20241203	Dissolved	Water	1630	3869
500-261013-7	MW-35_20241203	Total/NA	Water	1630	3869
500-261013-9	MW-37_20241203	Dissolved	Water	1630	3869
500-261013-9	MW-37_20241203	Total/NA	Water	1630	3869
500-261013-11	MW-10_20241203	Dissolved	Water	1630	3869
500-261013-11	MW-10_20241203	Total/NA	Water	1630	3869
MB 350-3869/1-A	Method Blank	Total/NA	Water	1630	3869
MB 350-3869/2-A	Method Blank	Total/NA	Water	1630	3869
MB 350-3869/3-A	Method Blank	Total/NA	Water	1630	3869
LCS 350-3869/4-A	Lab Control Sample	Total/NA	Water	1630	3869
LCSD 350-3869/5-A	Lab Control Sample Dup	Total/NA	Water	1630	3869

Analysis Batch: 3967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Dissolved	Water	1631E	
500-261013-1	MW-42_20241203	Total/NA	Water	1631E	
500-261013-2	MW-42_20241203_FBLL	Total/NA	Water	1631E	
500-261013-3	MW-38_20241203	Dissolved	Water	1631E	
500-261013-3	MW-38_20241203	Total/NA	Water	1631E	
500-261013-4	MW-38_20241203_FBLL	Total/NA	Water	1631E	
500-261013-5	MW-36_20241203	Dissolved	Water	1631E	
500-261013-5	MW-36_20241203	Total/NA	Water	1631E	
500-261013-6	MW-36_20241203_FBLL	Total/NA	Water	1631E	
500-261013-7	MW-35_20241203	Dissolved	Water	1631E	
500-261013-7	MW-35_20241203	Total/NA	Water	1631E	

Metals (Continued)

Analysis Batch: 3967 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-8	MW-35_20241203_FBLL	Total/NA	Water	1631E	
500-261013-9	MW-37_20241203	Dissolved	Water	1631E	
500-261013-9	MW-37_20241203	Total/NA	Water	1631E	
500-261013-10	MW-37_20241203_FBLL	Total/NA	Water	1631E	
500-261013-11	MW-10_20241203	Dissolved	Water	1631E	
500-261013-11	MW-10_20241203	Total/NA	Water	1631E	
500-261013-12	MW-10_20241203_FBLL	Total/NA	Water	1631E	
MB 350-3967/26	Method Blank	Total/NA	Water	1631E	
MB 350-3967/27	Method Blank	Total/NA	Water	1631E	
MB 350-3967/28	Method Blank	Total/NA	Water	1631E	
MB 350-3967/31	Method Blank	Total/NA	Water	1631E	
MB 350-3967/32	Method Blank	Total/NA	Water	1631E	
MB 350-3967/35	Method Blank	Total/NA	Water	1631E	
LCS 350-3967/29	Lab Control Sample	Total/NA	Water	1631E	
LCS 350-3967/36	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-3967/30	Lab Control Sample Dup	Total/NA	Water	1631E	
LCSD 350-3967/37	Lab Control Sample Dup	Total/NA	Water	1631E	

Prep Batch: 4100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Dissolved	Water	1638	
500-261013-1	MW-42_20241203	Total Recoverable	Water	1638	
500-261013-3	MW-38_20241203	Dissolved	Water	1638	
500-261013-3	MW-38_20241203	Total Recoverable	Water	1638	
MB 350-4100/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-4100/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-4100/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-4100/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-261013-3 MS	MW-38_20241203	Total Recoverable	Water	1638	
500-261013-3 MSD	MW-38_20241203	Total Recoverable	Water	1638	

Prep Batch: 4157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-5	MW-36_20241203	Dissolved	Water	1638	
500-261013-5	MW-36_20241203	Total Recoverable	Water	1638	
500-261013-11	MW-10_20241203	Dissolved	Water	1638	
500-261013-11	MW-10_20241203	Total Recoverable	Water	1638	
MB 350-4157/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-4157/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-4157/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-4157/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-261013-11 MS	MW-10_20241203	Total Recoverable	Water	1638	
500-261013-11 MSD	MW-10_20241203	Total Recoverable	Water	1638	

Analysis Batch: 4216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Dissolved	Water	1638	4100
500-261013-1	MW-42_20241203	Total Recoverable	Water	1638	4100
500-261013-3	MW-38_20241203	Dissolved	Water	1638	4100
500-261013-3	MW-38_20241203	Total Recoverable	Water	1638	4100
500-261013-5	MW-36_20241203	Dissolved	Water	1638	4157

Metals (Continued)

Analysis Batch: 4216 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-5	MW-36_20241203	Total Recoverable	Water	1638	4157
500-261013-11	MW-10_20241203	Dissolved	Water	1638	4157
500-261013-11	MW-10_20241203	Total Recoverable	Water	1638	4157
MB 350-4100/1-A	Method Blank	Total Recoverable	Water	1638	4100
MB 350-4100/2-A	Method Blank	Total Recoverable	Water	1638	4100
MB 350-4157/1-A	Method Blank	Total Recoverable	Water	1638	4157
MB 350-4157/2-A	Method Blank	Total Recoverable	Water	1638	4157
LCS 350-4100/3-A	Lab Control Sample	Total Recoverable	Water	1638	4100
LCS 350-4157/3-A	Lab Control Sample	Total Recoverable	Water	1638	4157
LCSD 350-4100/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	4100
LCSD 350-4157/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	4157
500-261013-3 MS	MW-38_20241203	Total Recoverable	Water	1638	4100
500-261013-3 MSD	MW-38_20241203	Total Recoverable	Water	1638	4100
500-261013-11 MS	MW-10_20241203	Total Recoverable	Water	1638	4157
500-261013-11 MSD	MW-10_20241203	Total Recoverable	Water	1638	4157

Prep Batch: 799689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Dissolved	Water	3005A	
500-261013-1	MW-42_20241203	Total Recoverable	Water	3005A	
500-261013-3	MW-38_20241203	Dissolved	Water	3005A	
500-261013-3	MW-38_20241203	Total Recoverable	Water	3005A	
500-261013-5	MW-36_20241203	Dissolved	Water	3005A	
500-261013-5	MW-36_20241203	Total Recoverable	Water	3005A	
500-261013-9	MW-37_20241203	Total Recoverable	Water	3005A	
500-261013-11	MW-10_20241203	Dissolved	Water	3005A	
500-261013-11	MW-10_20241203	Total Recoverable	Water	3005A	
MB 500-799689/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-799689/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 800085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Dissolved	Water	6020B	799689
500-261013-1	MW-42_20241203	Total Recoverable	Water	6020B	799689
500-261013-3	MW-38_20241203	Dissolved	Water	6020B	799689
500-261013-3	MW-38_20241203	Total Recoverable	Water	6020B	799689
500-261013-5	MW-36_20241203	Dissolved	Water	6020B	799689
500-261013-5	MW-36_20241203	Total Recoverable	Water	6020B	799689
500-261013-9	MW-37_20241203	Total Recoverable	Water	6020B	799689
500-261013-11	MW-10_20241203	Dissolved	Water	6020B	799689
500-261013-11	MW-10_20241203	Total Recoverable	Water	6020B	799689
MB 500-799689/1-A	Method Blank	Total Recoverable	Water	6020B	799689
LCS 500-799689/2-A	Lab Control Sample	Total Recoverable	Water	6020B	799689

Analysis Batch: 800104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Total Recoverable	Water	SM 2340B	799689
500-261013-3	MW-38_20241203	Total Recoverable	Water	SM 2340B	799689
500-261013-5	MW-36_20241203	Total Recoverable	Water	SM 2340B	799689
500-261013-9	MW-37_20241203	Total Recoverable	Water	SM 2340B	799689
500-261013-11	MW-10_20241203	Total Recoverable	Water	SM 2340B	799689

General Chemistry

Analysis Batch: 798399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Total/NA	Water	300.0	
500-261013-3	MW-38_20241203	Total/NA	Water	300.0	
500-261013-5	MW-36_20241203	Total/NA	Water	300.0	
500-261013-7	MW-35_20241203	Total/NA	Water	300.0	
500-261013-9	MW-37_20241203	Total/NA	Water	300.0	
500-261013-11	MW-10_20241203	Total/NA	Water	300.0	
MB 500-798399/3	Method Blank	Total/NA	Water	300.0	
LCS 500-798399/4	Lab Control Sample	Total/NA	Water	300.0	
500-261013-3 MS	MW-38_20241203	Total/NA	Water	300.0	
500-261013-3 MSD	MW-38_20241203	Total/NA	Water	300.0	

Analysis Batch: 798400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Total/NA	Water	300.0	
500-261013-3	MW-38_20241203	Total/NA	Water	300.0	
500-261013-5	MW-36_20241203	Total/NA	Water	300.0	
500-261013-7	MW-35_20241203	Total/NA	Water	300.0	
500-261013-9	MW-37_20241203	Total/NA	Water	300.0	
500-261013-11	MW-10_20241203	Total/NA	Water	300.0	
MB 500-798400/3	Method Blank	Total/NA	Water	300.0	
LCS 500-798400/4	Lab Control Sample	Total/NA	Water	300.0	
500-261013-3 MS	MW-38_20241203	Total/NA	Water	300.0	
500-261013-3 MSD	MW-38_20241203	Total/NA	Water	300.0	

Prep Batch: 798455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Total/NA	Water	Distill/CN	
500-261013-3	MW-38_20241203	Total/NA	Water	Distill/CN	
500-261013-5	MW-36_20241203	Total/NA	Water	Distill/CN	
500-261013-11	MW-10_20241203	Total/NA	Water	Distill/CN	
MB 500-798455/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-798455/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
500-261013-3 MS	MW-38_20241203	Total/NA	Water	Distill/CN	
500-261013-3 MSD	MW-38_20241203	Total/NA	Water	Distill/CN	

Analysis Batch: 798459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Total/NA	Water	335.4	798455
500-261013-3	MW-38_20241203	Total/NA	Water	335.4	798455
500-261013-5	MW-36_20241203	Total/NA	Water	335.4	798455
500-261013-11	MW-10_20241203	Total/NA	Water	335.4	798455
MB 500-798455/1-A	Method Blank	Total/NA	Water	335.4	798455
LCS 500-798455/2-A	Lab Control Sample	Total/NA	Water	335.4	798455
500-261013-3 MS	MW-38_20241203	Total/NA	Water	335.4	798455
500-261013-3 MSD	MW-38_20241203	Total/NA	Water	335.4	798455

Analysis Batch: 798463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Total/NA	Water	SM 2520B	
500-261013-3	MW-38_20241203	Total/NA	Water	SM 2520B	
500-261013-5	MW-36_20241203	Total/NA	Water	SM 2520B	

General Chemistry (Continued)

Analysis Batch: 798463 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-7	MW-35_20241203	Total/NA	Water	SM 2520B	
500-261013-9	MW-37_20241203	Total/NA	Water	SM 2520B	
500-261013-5 DU	MW-36_20241203	Total/NA	Water	SM 2520B	

Analysis Batch: 798487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Total/NA	Water	SM 5310C	
500-261013-3	MW-38_20241203	Total/NA	Water	SM 5310C	
500-261013-5	MW-36_20241203	Total/NA	Water	SM 5310C	
500-261013-9	MW-37_20241203	Total/NA	Water	SM 5310C	
500-261013-11	MW-10_20241203	Total/NA	Water	SM 5310C	
MB 500-798487/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-798487/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 798546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Total/NA	Water	365.2/365.3/365	
500-261013-3	MW-38_20241203	Total/NA	Water	365.2/365.3/365	
500-261013-5	MW-36_20241203	Total/NA	Water	365.2/365.3/365	
500-261013-11	MW-10_20241203	Total/NA	Water	365.2/365.3/365	
MB 500-798546/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-798546/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 798635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Total/NA	Water	SM 2540D	
500-261013-3	MW-38_20241203	Total/NA	Water	SM 2540D	
500-261013-5	MW-36_20241203	Total/NA	Water	SM 2540D	
500-261013-7	MW-35_20241203	Total/NA	Water	SM 2540D	
500-261013-9	MW-37_20241203	Total/NA	Water	SM 2540D	
500-261013-11	MW-10_20241203	Total/NA	Water	SM 2540D	
MB 500-798635/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-798635/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-261013-3 MS	MW-38_20241203	Total/NA	Water	SM 2540D	

Analysis Batch: 798663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Total/NA	Water	SM 2540C	
500-261013-3	MW-38_20241203	Total/NA	Water	SM 2540C	
500-261013-5	MW-36_20241203	Total/NA	Water	SM 2540C	
500-261013-7	MW-35_20241203	Total/NA	Water	SM 2540C	
500-261013-9	MW-37_20241203	Total/NA	Water	SM 2540C	
500-261013-11	MW-10_20241203	Total/NA	Water	SM 2540C	
MB 500-798663/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-798663/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 798664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Total/NA	Water	SM 4500 S2 F	
500-261013-3	MW-38_20241203	Total/NA	Water	SM 4500 S2 F	
500-261013-5	MW-36_20241203	Total/NA	Water	SM 4500 S2 F	

General Chemistry (Continued)

Analysis Batch: 798664 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-11	MW-10_20241203	Total/NA	Water	SM 4500 S2 F	
MB 500-798664/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-798664/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 798878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Dissolved	Water	SM 5310C	
500-261013-3	MW-38_20241203	Dissolved	Water	SM 5310C	
500-261013-5	MW-36_20241203	Dissolved	Water	SM 5310C	
500-261013-9	MW-37_20241203	Dissolved	Water	SM 5310C	
500-261013-11	MW-10_20241203	Dissolved	Water	SM 5310C	
MB 500-798878/31	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-798878/32	Lab Control Sample	Dissolved	Water	SM 5310C	
500-261013-1 MS	MW-42_20241203	Dissolved	Water	SM 5310C	
500-261013-1 MSD	MW-42_20241203	Dissolved	Water	SM 5310C	

Analysis Batch: 798892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-798892/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-798892/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 798893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Total/NA	Water	SM 2320B	
500-261013-3	MW-38_20241203	Total/NA	Water	SM 2320B	
500-261013-5	MW-36_20241203	Total/NA	Water	SM 2320B	
500-261013-7	MW-35_20241203	Total/NA	Water	SM 2320B	
500-261013-9	MW-37_20241203	Total/NA	Water	SM 2320B	
500-261013-11	MW-10_20241203	Total/NA	Water	SM 2320B	
MB 500-798893/5	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-798893/6	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 799336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Total/NA	Water	365.1	798546
500-261013-3	MW-38_20241203	Total/NA	Water	365.1	798546
500-261013-5	MW-36_20241203	Total/NA	Water	365.1	798546
500-261013-11	MW-10_20241203	Total/NA	Water	365.1	798546
MB 500-798546/1-A	Method Blank	Total/NA	Water	365.1	798546
LCS 500-798546/2-A	Lab Control Sample	Total/NA	Water	365.1	798546

Prep Batch: 800314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Total/NA	Water	Distill/Ammonia	
500-261013-3	MW-38_20241203	Total/NA	Water	Distill/Ammonia	
500-261013-5	MW-36_20241203	Total/NA	Water	Distill/Ammonia	
500-261013-11	MW-10_20241203	Total/NA	Water	Distill/Ammonia	
MB 500-800314/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-800314/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

General Chemistry

Analysis Batch: 800414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-1	MW-42_20241203	Total/NA	Water	350.1	800314
500-261013-3	MW-38_20241203	Total/NA	Water	350.1	800314
500-261013-5	MW-36_20241203	Total/NA	Water	350.1	800314
500-261013-11	MW-10_20241203	Total/NA	Water	350.1	800314
MB 500-800314/1-A	Method Blank	Total/NA	Water	350.1	800314
LCS 500-800314/2-A	Lab Control Sample	Total/NA	Water	350.1	800314

Analysis Batch: 800476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-11	MW-10_20241203	Total/NA	Water	SM 2520B	

Analysis Batch: 800727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261013-3	MW-38_20241203	Total/NA	Water	300.0	
500-261013-11	MW-10_20241203	Total/NA	Water	300.0	
MB 500-800727/3	Method Blank	Total/NA	Water	300.0	
LCS 500-800727/4	Lab Control Sample	Total/NA	Water	300.0	

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-3869/1-A
Matrix: Water
Analysis Batch: 3916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 15:12	1

Lab Sample ID: MB 350-3869/2-A
Matrix: Water
Analysis Batch: 3916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 15:23	1

Lab Sample ID: MB 350-3869/3-A
Matrix: Water
Analysis Batch: 3916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 15:33	1

Lab Sample ID: LCS 350-3869/4-A
Matrix: Water
Analysis Batch: 3916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3869

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl Mercury			1.00	0.804		ng/L		80	65 - 135		

Lab Sample ID: LCSD 350-3869/5-A
Matrix: Water
Analysis Batch: 3916

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3869

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury			1.00	0.826		ng/L		83	65 - 135	3	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-3967/26
Matrix: Water
Analysis Batch: 3967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/17/24 14:09	1

Lab Sample ID: MB 350-3967/27
Matrix: Water
Analysis Batch: 3967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/17/24 14:13	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: MB 350-3967/28
Matrix: Water
Analysis Batch: 3967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/17/24 14:17	1

Lab Sample ID: MB 350-3967/31
Matrix: Water
Analysis Batch: 3967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/17/24 14:30	1

Lab Sample ID: MB 350-3967/32
Matrix: Water
Analysis Batch: 3967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/17/24 14:34	1

Lab Sample ID: MB 350-3967/35
Matrix: Water
Analysis Batch: 3967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/17/24 14:46	1

Lab Sample ID: LCS 350-3967/29
Matrix: Water
Analysis Batch: 3967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			5.00	4.95		ng/L		99	77 - 123		

Lab Sample ID: LCS 350-3967/36
Matrix: Water
Analysis Batch: 3967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			5.00	4.99		ng/L		100	77 - 123		

Lab Sample ID: LCSD 350-3967/30
Matrix: Water
Analysis Batch: 3967

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			5.00	4.92		ng/L		98	77 - 123	1	24

Lab Sample ID: LCSD 350-3967/37
Matrix: Water
Analysis Batch: 3967

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			5.00	4.99		ng/L		100	77 - 123	0	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-4100/1-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		12/26/24 10:17	12/30/24 10:01	1

Lab Sample ID: MB 350-4100/2-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		12/26/24 10:17	12/30/24 10:04	1

Lab Sample ID: LCS 350-4100/3-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4100

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium			25.0	26.1		ug/L		104	85 - 115		

Lab Sample ID: LCSD 350-4100/4-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 4100

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium			25.0	25.9		ug/L		104	85 - 115	1	20

Lab Sample ID: 500-261013-3 MS
Matrix: Water
Analysis Batch: 4216

Client Sample ID: MW-38_20241203
Prep Type: Total Recoverable
Prep Batch: 4100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium	4.8		25.0	31.5		ug/L		107	70 - 130		

Lab Sample ID: 500-261013-3 MSD
Matrix: Water
Analysis Batch: 4216

Client Sample ID: MW-38_20241203
Prep Type: Total Recoverable
Prep Batch: 4100

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	4.8		25.0	30.3		ug/L		102	70 - 130	4	20

Lab Sample ID: MB 350-4157/1-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 12:40	1

Lab Sample ID: MB 350-4157/2-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 12:44	1

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: LCS 350-4157/3-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4157

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium			25.0	24.1		ug/L		96	85 - 115		

Lab Sample ID: LCSD 350-4157/4-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 4157

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium			25.0	24.5		ug/L		98	85 - 115	1	20

Lab Sample ID: 500-261013-11 MS
Matrix: Water
Analysis Batch: 4216

Client Sample ID: MW-10_20241203
Prep Type: Total Recoverable
Prep Batch: 4157

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium	7.9		25.0	32.8		ug/L		100	70 - 130		

Lab Sample ID: 500-261013-11 MSD
Matrix: Water
Analysis Batch: 4216

Client Sample ID: MW-10_20241203
Prep Type: Total Recoverable
Prep Batch: 4157

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	7.9		25.0	32.4		ug/L		98	70 - 130	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-799689/1-A
Matrix: Water
Analysis Batch: 800085

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 799689

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/17/24 08:17	12/18/24 17:19	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:17	12/18/24 17:19	1
Arsenic	<0.23		1.0	0.23	ug/L		12/17/24 08:17	12/18/24 17:19	1
Barium	<0.73		2.5	0.73	ug/L		12/17/24 08:17	12/18/24 17:19	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:17	12/18/24 17:19	1
Boron	<13		50	13	ug/L		12/17/24 08:17	12/18/24 17:19	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:17	12/18/24 17:19	1
Calcium	<44		200	44	ug/L		12/17/24 08:17	12/18/24 17:19	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:17	12/18/24 17:19	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:17	12/18/24 17:19	1
Copper	<0.50		2.0	0.50	ug/L		12/17/24 08:17	12/18/24 17:19	1
Iron	<47		100	47	ug/L		12/17/24 08:17	12/18/24 17:19	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:17	12/18/24 17:19	1
Lithium	<2.5		10	2.5	ug/L		12/17/24 08:17	12/18/24 17:19	1
Magnesium	<49		200	49	ug/L		12/17/24 08:17	12/18/24 17:19	1
Manganese	<0.79		2.5	0.79	ug/L		12/17/24 08:17	12/18/24 17:19	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/17/24 08:17	12/18/24 17:19	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:17	12/18/24 17:19	1
Potassium	<110		500	110	ug/L		12/17/24 08:17	12/18/24 17:19	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:17	12/18/24 17:19	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-799689/1-A
Matrix: Water
Analysis Batch: 800085

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 799689

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:17	12/18/24 17:19	1
Sodium	<77		200	77	ug/L		12/17/24 08:17	12/18/24 17:19	1
Strontium	<0.64		4.0	0.64	ug/L		12/17/24 08:17	12/18/24 17:19	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:17	12/18/24 17:19	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:17	12/18/24 17:19	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:17	12/18/24 17:19	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:17	12/18/24 17:19	1

Lab Sample ID: LCS 500-799689/2-A
Matrix: Water
Analysis Batch: 800085

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 799689

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1990		ug/L		100	80 - 120
Antimony	500	533		ug/L		107	80 - 120
Arsenic	100	98.4		ug/L		98	80 - 120
Barium	500	531		ug/L		106	80 - 120
Beryllium	50.0	50.7		ug/L		101	80 - 120
Boron	1000	1010		ug/L		101	80 - 120
Cadmium	50.0	51.9		ug/L		104	80 - 120
Calcium	10000	8420		ug/L		84	80 - 120
Chromium	200	205		ug/L		103	80 - 120
Cobalt	500	548		ug/L		110	80 - 120
Copper	250	257		ug/L		103	80 - 120
Iron	1000	1090		ug/L		109	80 - 120
Lead	100	102		ug/L		102	80 - 120
Lithium	100	108		ug/L		108	80 - 120
Magnesium	10000	10600		ug/L		106	80 - 120
Manganese	500	535		ug/L		107	80 - 120
Molybdenum	1000	1020		ug/L		102	80 - 120
Nickel	500	505		ug/L		101	80 - 120
Potassium	10000	10800		ug/L		108	80 - 120
Selenium	100	99.4		ug/L		99	80 - 120
Silver	50.0	52.1		ug/L		104	80 - 120
Sodium	10000	10500		ug/L		105	80 - 120
Strontium	1000	1010		ug/L		101	80 - 120
Thallium	100	104		ug/L		104	80 - 120
Tin	1000	1020		ug/L		102	80 - 120
Vanadium	500	522		ug/L		104	80 - 120
Zinc	500	511		ug/L		102	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-798399/3
Matrix: Water
Analysis Batch: 798399

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.45		1.0	0.45	mg/L			12/07/24 15:27	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-798399/3
Matrix: Water
Analysis Batch: 798399

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.42		1.0	0.42	mg/L			12/07/24 15:27	1
Fluoride	<0.43		1.0	0.43	mg/L			12/07/24 15:27	1
Sulfate	<0.47		1.0	0.47	mg/L			12/07/24 15:27	1

Lab Sample ID: LCS 500-798399/4
Matrix: Water
Analysis Batch: 798399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	20.4		mg/L		102	90 - 110
Chloride	20.0	19.7		mg/L		99	90 - 110
Fluoride	20.0	20.3		mg/L		102	90 - 110
Sulfate	20.0	20.5		mg/L		103	90 - 110

Lab Sample ID: 500-261013-3 MS
Matrix: Water
Analysis Batch: 798399

Client Sample ID: MW-38_20241203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.64	J	10.0	9.94		mg/L		93	80 - 120
Fluoride	0.76	J	10.0	10.0		mg/L		93	80 - 120
Sulfate	25		10.0	34.2		mg/L		96	80 - 120

Lab Sample ID: 500-261013-3 MSD
Matrix: Water
Analysis Batch: 798399

Client Sample ID: MW-38_20241203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.64	J	10.0	10.2		mg/L		95	80 - 120	2	20
Fluoride	0.76	J	10.0	10.3		mg/L		96	80 - 120	3	20
Sulfate	25		10.0	35.2		mg/L		105	80 - 120	3	20

Lab Sample ID: MB 500-798400/3
Matrix: Water
Analysis Batch: 798400

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.37		1.0	0.37	mg/L			12/07/24 15:27	1
Nitrite as N	<0.25		1.0	0.25	mg/L			12/07/24 15:27	1
Nitrate Nitrite as N	<0.37		1.0	0.37	mg/L			12/07/24 15:27	1

Lab Sample ID: LCS 500-798400/4
Matrix: Water
Analysis Batch: 798400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.3		mg/L		96	90 - 110
Nitrite as N	20.0	20.2		mg/L		101	90 - 110
Nitrate Nitrite as N	40.0	39.5		mg/L		99	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-261013-3 MS — **Client Sample ID: MW-38_20241203**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 798400

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	<0.37	H3	2.26	2.19		mg/L		97	80 - 120		
Nitrite as N	<0.25	H3	3.03	2.89		mg/L		95	80 - 120		
Nitrate Nitrite as N	<0.37	H3	5.29	5.08		mg/L		96	80 - 120		

Lab Sample ID: 500-261013-3 MSD — **Client Sample ID: MW-38_20241203**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 798400

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.37	H3	2.26	2.24		mg/L		99	80 - 120	2	20
Nitrite as N	<0.25	H3	3.03	2.93		mg/L		97	80 - 120	1	20
Nitrate Nitrite as N	<0.37	H3	5.29	5.17		mg/L		98	80 - 120	2	20

Lab Sample ID: MB 500-800727/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 800727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.42		1.0	0.42	mg/L			12/27/24 00:50	1

Lab Sample ID: LCS 500-800727/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 800727

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			20.0	20.0		mg/L		100	90 - 110		

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-798455/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 798459 — **Prep Batch: 798455**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		12/08/24 08:57	12/08/24 10:31	1

Lab Sample ID: LCS 500-798455/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 798459 — **Prep Batch: 798455**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.100	0.102		mg/L		102	90 - 110		

Lab Sample ID: 500-261013-3 MS — **Client Sample ID: MW-38_20241203**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 798459 — **Prep Batch: 798455**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	<0.0036		0.100	0.110		mg/L		110	90 - 110		

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: 500-261013-3 MSD — **Client Sample ID: MW-38_20241203**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 798459 — **Prep Batch: 798455**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.0036		0.100	0.109		mg/L		109	90 - 110	1	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-800314/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 800414 — **Prep Batch: 800314**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		12/20/24 11:36	12/20/24 15:56	1

Lab Sample ID: LCS 500-800314/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 800414 — **Prep Batch: 800314**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.10		mg/L		105	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-798546/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 799336 — **Prep Batch: 798546**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 10:53	1

Lab Sample ID: LCS 500-798546/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 799336 — **Prep Batch: 798546**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.939		mg/L		94	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-798892/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 798892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.99		5.0	3.7	mg/L			12/09/24 10:41	1
Bicarbonate Alkalinity as CaCO3	5.99		5.0	3.7	mg/L			12/09/24 10:41	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			12/09/24 10:41	1

Lab Sample ID: LCS 500-798892/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 798892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	107		mg/L		107	95 - 121

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-798893/5
Matrix: Water
Analysis Batch: 798893

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.35		5.0	3.7	mg/L			12/09/24 17:02	1
Bicarbonate Alkalinity as CaCO3	5.35		5.0	3.7	mg/L			12/09/24 17:02	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			12/09/24 17:02	1

Lab Sample ID: LCS 500-798893/6
Matrix: Water
Analysis Batch: 798893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	106		mg/L		106	95 - 121

Method: SM 2520B - Salinity

Lab Sample ID: 500-261013-5 DU
Matrix: Water
Analysis Batch: 798463

Client Sample ID: MW-36_20241203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Salinity	<0.33		<0.33		psu		NC	

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-798663/1
Matrix: Water
Analysis Batch: 798663

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			12/10/24 04:48	1

Lab Sample ID: LCS 500-798663/2
Matrix: Water
Analysis Batch: 798663

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	264		mg/L		106	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-798635/1
Matrix: Water
Analysis Batch: 798635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			12/09/24 15:38	1

Lab Sample ID: LCS 500-798635/2
Matrix: Water
Analysis Batch: 798635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	175		mg/L		88	80 - 120

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: 500-261013-3 MS
Matrix: Water
Analysis Batch: 798635

Client Sample ID: MW-38_20241203
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	<1.9		100	91.0		mg/L		91	75 - 125

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-798664/1
Matrix: Water
Analysis Batch: 798664

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			12/09/24 23:25	1

Lab Sample ID: LCS 500-798664/2
Matrix: Water
Analysis Batch: 798664

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.76	3.76		mg/L		100	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-798487/7
Matrix: Water
Analysis Batch: 798487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			12/08/24 14:37	1

Lab Sample ID: LCS 500-798487/8
Matrix: Water
Analysis Batch: 798487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-798878/31
Matrix: Water
Analysis Batch: 798878

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			12/11/24 07:30	1

Lab Sample ID: LCS 500-798878/32
Matrix: Water
Analysis Batch: 798878

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.0		mg/L		100	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: 500-261013-1 MS
Matrix: Water
Analysis Batch: 798878

Client Sample ID: MW-42_20241203
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Dissolved Organic Carbon	2.3		10.0	13.5		mg/L		112	75 - 125		

Lab Sample ID: 500-261013-1 MSD
Matrix: Water
Analysis Batch: 798878

Client Sample ID: MW-42_20241203
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dissolved Organic Carbon	2.3		10.0	12.5		mg/L		102	75 - 125	8	20

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-42_20241203

Lab Sample ID: 500-261013-1

Date Collected: 12/03/24 14:35

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Dissolved	Analysis	1630		1	3916	COW	EET SSM	12/13/24 20:39
Total/NA	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Total/NA	Analysis	1630		1	3916	COW	EET SSM	12/13/24 20:08
Dissolved	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 18:35
Total/NA	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 18:30
Dissolved	Prep	1638			4100	D1C	EET SSM	12/26/24 10:17
Dissolved	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 10:53
Total Recoverable	Prep	1638			4100	D1C	EET SSM	12/26/24 10:17
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 10:49
Dissolved	Prep	3005A			799689	BDE	EET CHI	12/17/24 08:17 - 12/17/24 14:17 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 18:01
Total Recoverable	Prep	3005A			799689	BDE	EET CHI	12/17/24 08:17 - 12/17/24 14:17 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 17:49
Total Recoverable	Prep	3005A			799689	BDE	EET CHI	12/17/24 08:17 - 12/17/24 14:17 [1]
Total Recoverable	Analysis	SM 2340B		1	800104	DAJ	EET CHI	12/19/24 09:07
Total/NA	Analysis	300.0		1	798399	MM	EET CHI	12/07/24 15:58
Total/NA	Analysis	300.0		1	798400	MM	EET CHI	12/07/24 15:58
Total/NA	Prep	Distill/CN			798455	AC	EET CHI	12/08/24 08:57 - 12/08/24 09:27 [1]
Total/NA	Analysis	335.4		1	798459	AC	EET CHI	12/08/24 10:34
Total/NA	Prep	Distill/Ammonia			800314	EB	EET CHI	12/20/24 11:36 - 12/20/24 12:36 [1]
Total/NA	Analysis	350.1		1	800414	EB	EET CHI	12/20/24 15:57
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 10:58
Total/NA	Analysis	SM 2320B		1	798893	SO	EET CHI	12/09/24 16:33
Total/NA	Analysis	SM 2520B		1	798463	TR	EET CHI	12/08/24 14:12
Total/NA	Analysis	SM 2540C		1	798663	CLB	EET CHI	12/10/24 05:16
Total/NA	Analysis	SM 2540D		1	798635	SO	EET CHI	12/09/24 15:59 - 12/09/24 16:03 [1]
Total/NA	Analysis	SM 4500 S2 F		1	798664	CLB	EET CHI	12/10/24 00:03 - 12/10/24 00:06 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798487	TR	EET CHI	12/08/24 21:10

Client Sample ID: MW-42_20241203_FBLL

Lab Sample ID: 500-261013-2

Date Collected: 12/03/24 14:35

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 18:39

Client Sample ID: MW-38_20241203

Lab Sample ID: 500-261013-3

Date Collected: 12/03/24 13:30

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Dissolved	Analysis	1630		1	3916	COW	EET SSM	12/13/24 20:59
Total/NA	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Total/NA	Analysis	1630		1	3916	COW	EET SSM	12/13/24 20:49
Dissolved	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 18:55
Total/NA	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 18:51
Dissolved	Prep	1638			4100	D1C	EET SSM	12/26/24 10:17
Dissolved	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 10:56
Total Recoverable	Prep	1638			4100	D1C	EET SSM	12/26/24 10:17
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 10:25
Dissolved	Prep	3005A			799689	BDE	EET CHI	12/17/24 08:17 - 12/17/24 14:17 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 18:04
Total Recoverable	Prep	3005A			799689	BDE	EET CHI	12/17/24 08:17 - 12/17/24 14:17 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 17:51
Total Recoverable	Prep	3005A			799689	BDE	EET CHI	12/17/24 08:17 - 12/17/24 14:17 [1]
Total Recoverable	Analysis	SM 2340B		1	800104	DAJ	EET CHI	12/19/24 09:07
Total/NA	Analysis	300.0		1	798399	MM	EET CHI	12/07/24 16:14
Total/NA	Analysis	300.0		1	798400	MM	EET CHI	12/07/24 16:14
Total/NA	Analysis	300.0		5	800727	MB	EET CHI	12/27/24 01:22
Total/NA	Prep	Distill/CN			798455	AC	EET CHI	12/08/24 08:57 - 12/08/24 09:27 [1]
Total/NA	Analysis	335.4		1	798459	AC	EET CHI	12/08/24 10:35
Total/NA	Prep	Distill/Ammonia			800314	EB	EET CHI	12/20/24 11:36 - 12/20/24 12:36 [1]
Total/NA	Analysis	350.1		1	800414	EB	EET CHI	12/20/24 15:57
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 10:58
Total/NA	Analysis	SM 2320B		1	798893	SO	EET CHI	12/09/24 16:42
Total/NA	Analysis	SM 2520B		1	798463	TR	EET CHI	12/08/24 14:12
Total/NA	Analysis	SM 2540C		1	798663	CLB	EET CHI	12/10/24 05:19
Total/NA	Analysis	SM 2540D		1	798635	SO	EET CHI	12/09/24 16:03 - 12/09/24 16:07 [1]
Total/NA	Analysis	SM 4500 S2 F		1	798664	CLB	EET CHI	12/10/24 00:06 - 12/10/24 00:09 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798487	TR	EET CHI	12/08/24 21:38

Client Sample ID: MW-38_20241203_FBLL

Lab Sample ID: 500-261013-4

Date Collected: 12/03/24 13:30

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 19:00

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-36_20241203

Lab Sample ID: 500-261013-5

Date Collected: 12/03/24 15:20

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Dissolved	Analysis	1630		1	3916	COW	EET SSM	12/13/24 21:20
Total/NA	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Total/NA	Analysis	1630		1	3916	COW	EET SSM	12/13/24 21:09
Dissolved	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 19:08
Total/NA	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 19:04
Dissolved	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Dissolved	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 13:29
Total Recoverable	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 13:25
Dissolved	Prep	3005A			799689	BDE	EET CHI	12/17/24 08:17 - 12/17/24 14:17 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 18:06
Total Recoverable	Prep	3005A			799689	BDE	EET CHI	12/17/24 08:17 - 12/17/24 14:17 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 17:54
Total Recoverable	Prep	3005A			799689	BDE	EET CHI	12/17/24 08:17 - 12/17/24 14:17 [1]
Total Recoverable	Analysis	SM 2340B		1	800104	DAJ	EET CHI	12/19/24 09:07
Total/NA	Analysis	300.0		1	798399	MM	EET CHI	12/07/24 17:01
Total/NA	Analysis	300.0		1	798400	MM	EET CHI	12/07/24 17:01
Total/NA	Prep	Distill/CN			798455	AC	EET CHI	12/08/24 08:57 - 12/08/24 09:27 [1]
Total/NA	Analysis	335.4		1	798459	AC	EET CHI	12/08/24 10:40
Total/NA	Prep	Distill/Ammonia			800314	EB	EET CHI	12/20/24 11:36 - 12/20/24 12:36 [1]
Total/NA	Analysis	350.1		1	800414	EB	EET CHI	12/20/24 15:57
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 10:58
Total/NA	Analysis	SM 2320B		1	798893	SO	EET CHI	12/09/24 16:52
Total/NA	Analysis	SM 2520B		1	798463	TR	EET CHI	12/08/24 14:12
Total/NA	Analysis	SM 2540C		1	798663	CLB	EET CHI	12/10/24 05:21
Total/NA	Analysis	SM 2540D		1	798635	SO	EET CHI	12/09/24 16:12 - 12/09/24 16:16 [1]
Total/NA	Analysis	SM 4500 S2 F		1	798664	CLB	EET CHI	12/10/24 00:09 - 12/10/24 00:13 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798487	TR	EET CHI	12/08/24 22:06

Client Sample ID: MW-36_20241203_FBLL

Lab Sample ID: 500-261013-6

Date Collected: 12/03/24 15:20

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 19:12

Client Sample ID: MW-35_20241203

Lab Sample ID: 500-261013-7

Date Collected: 12/03/24 16:30

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Dissolved	Analysis	1630		1	3916	COW	EET SSM	12/13/24 21:40
Total/NA	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Total/NA	Analysis	1630		1	3916	COW	EET SSM	12/13/24 21:30
Dissolved	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 19:20
Total/NA	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 19:16
Total/NA	Analysis	300.0		1	798399	MM	EET CHI	12/07/24 17:16
Total/NA	Analysis	300.0		1	798400	MM	EET CHI	12/07/24 17:16
Total/NA	Analysis	SM 2320B		1	798893	SO	EET CHI	12/09/24 17:16
Total/NA	Analysis	SM 2520B		1	798463	TR	EET CHI	12/08/24 14:12
Total/NA	Analysis	SM 2540C		1	798663	CLB	EET CHI	12/10/24 05:24
Total/NA	Analysis	SM 2540D		1	798635	SO	EET CHI	12/09/24 16:16 - 12/09/24 16:20 [1]

Client Sample ID: MW-35_20241203_FBLL

Lab Sample ID: 500-261013-8

Date Collected: 12/03/24 16:30

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 20:47

Client Sample ID: MW-37_20241203

Lab Sample ID: 500-261013-9

Date Collected: 12/03/24 13:40

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Dissolved	Analysis	1630		1	3916	COW	EET SSM	12/13/24 22:00
Total/NA	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Total/NA	Analysis	1630		1	3916	COW	EET SSM	12/13/24 21:50
Dissolved	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 20:56
Total/NA	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 20:52
Total Recoverable	Prep	3005A			799689	BDE	EET CHI	12/17/24 08:17 - 12/17/24 14:17 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 17:56
Total Recoverable	Prep	3005A			799689	BDE	EET CHI	12/17/24 08:17 - 12/17/24 14:17 [1]
Total Recoverable	Analysis	SM 2340B		1	800104	DAJ	EET CHI	12/19/24 09:07
Total/NA	Analysis	300.0		1	798399	MM	EET CHI	12/07/24 17:32
Total/NA	Analysis	300.0		1	798400	MM	EET CHI	12/07/24 17:32
Total/NA	Analysis	SM 2320B		1	798893	SO	EET CHI	12/09/24 17:25
Total/NA	Analysis	SM 2520B		1	798463	TR	EET CHI	12/08/24 14:12
Total/NA	Analysis	SM 2540C		1	798663	CLB	EET CHI	12/10/24 05:26
Total/NA	Analysis	SM 2540D		1	798635	SO	EET CHI	12/09/24 16:20 - 12/09/24 16:25 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798487	TR	EET CHI	12/08/24 22:34

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-37_20241203_FBLL

Lab Sample ID: 500-261013-10

Date Collected: 12/03/24 13:40
Matrix: Water
Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 21:00

Client Sample ID: MW-10_20241203

Lab Sample ID: 500-261013-11

Date Collected: 12/03/24 17:40
Matrix: Water
Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Dissolved	Analysis	1630		1	3916	COW	EET SSM	12/13/24 22:41
Total/NA	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Total/NA	Analysis	1630		1	3916	COW	EET SSM	12/13/24 22:11
Dissolved	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 21:08
Total/NA	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 21:04
Dissolved	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Dissolved	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 13:32
Total Recoverable	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 12:58
Dissolved	Prep	3005A			799689	BDE	EET CHI	12/17/24 08:17 - 12/17/24 14:17 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 18:09
Total Recoverable	Prep	3005A			799689	BDE	EET CHI	12/17/24 08:17 - 12/17/24 14:17 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 17:59
Total Recoverable	Prep	3005A			799689	BDE	EET CHI	12/17/24 08:17 - 12/17/24 14:17 [1]
Total Recoverable	Analysis	SM 2340B		1	800104	DAJ	EET CHI	12/19/24 09:07
Total/NA	Analysis	300.0		1	798399	MM	EET CHI	12/07/24 17:48
Total/NA	Analysis	300.0		1	798400	MM	EET CHI	12/07/24 17:48
Total/NA	Analysis	300.0		50	800727	MB	EET CHI	12/27/24 01:37
Total/NA	Prep	Distill/CN			798455	AC	EET CHI	12/08/24 08:57 - 12/08/24 09:27 [1]
Total/NA	Analysis	335.4		1	798459	AC	EET CHI	12/08/24 10:42
Total/NA	Prep	Distill/Ammonia			800314	EB	EET CHI	12/20/24 11:36 - 12/20/24 12:36 [1]
Total/NA	Analysis	350.1		1	800414	EB	EET CHI	12/20/24 15:58
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 10:59
Total/NA	Analysis	SM 2320B		1	798893	SO	EET CHI	12/09/24 17:34
Total/NA	Analysis	SM 2520B		1	800476	TR	EET CHI	12/22/24 15:01
Total/NA	Analysis	SM 2540C		1	798663	CLB	EET CHI	12/10/24 05:29
Total/NA	Analysis	SM 2540D		1	798635	SO	EET CHI	12/09/24 16:25 - 12/09/24 16:29 [1]
Total/NA	Analysis	SM 4500 S2 F		1	798664	CLB	EET CHI	12/10/24 00:13 - 12/10/24 00:16 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798487	TR	EET CHI	12/08/24 23:03

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Client Sample ID: MW-10_20241203_FBLL

Date Collected: 12/03/24 17:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261013-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3967	COW	EET SSM	12/17/24 21:21

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261013-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	100201	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-25
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24 *
South Carolina	State	77001003	05-31-25
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-25
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	07-07-25
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
Maine	State	WA01273	05-02-26
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-25
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	07-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick Sandie	Carrier Tracking No(s): 4221 9522 1701	COC No: 500-130281-50241 40
Client Contact: Amanda Zeidler	Phone: 906 487-7454	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper LLC	PWSID:			Job #: 500-261013
Address: 35362 Mall Circle Drive	Due Date Requested			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pines MI	Project #: 50023455			
Site: White Pine North Baseline Sampling	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL

500-261013 COC

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) - tripli	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS)	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury	6020B - Dissolved Metals (ICP/MS) - 27 elements	1638 - Dissolved Uranium only (ICP/MS) (field f	1631E - Dissolved Mercury, Low Level (CVAFS) (field filtered)	1630_ME - Dissolved Methyl Mercury (field filtered)	5310C - TOC	Total Number of containers	Special Instructions/Note.
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A	S		
1	MW-42 2024 203	12-3-24	1435	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X	22	
2	MW-42_20241203_FBLL	12-3-24	1435	G	Water										X							2	
3	MW-38_20241203	12-3-24	1310	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X	20 22	
4	MW-38_20241203_FBLL	12-3-24	13:10	G	Water										X							2	
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	12.3.24 17:00	MSG		12.3.24 1700	MSG
2		12-4-24 10:15	MSG	FedEx 4221 9522 1701	12-4-24 10:15	
3		Date/Time:	Company	Stephanie Hemmelt	12/10/24 0935	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 3.6+3.5, 4.8+4.7, 5.8+5.7

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | environment testing

Client Information	Sampler: Maddy Strong	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4221 9522 1697	COC No: 500-130281-50241 25
Client Contact: Amanda Zeidler	Phone: 715-587-4059	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper LLC	PWSID:			Job #: 500-261013
Address: 35362 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pines MI	Project #: 50023455			
Site: White Pine North Baseline Sampling	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) - tripli	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS)	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury	6020B - Dissolved Metals (ICP/MS) - 27 elements	1638 - Dissolved Uranium only (ICP/MS) (field f	1631E - Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME - Dissolved Methyl Mercury (field filtered)	5310C - TOC	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A	S		
5	MW-36_20241203	12-03-24	1520	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22	
6	MW-36_20241203_FBLL	12-03-24	1520	G	Water										✓							2	
7	MW-35-20241203	12-03-24	1630	G	Water				✓						✓	✓			✓	✓		7	
8	MW-35_20241203_FBLL	12-03-24	1630	G	Water										✓							2	
9	MW-37_20241203	12-03-24	1340	G	Water				✓			✓	✓		✓	✓			✓	✓	✓	14	
10	MW-37_20241203_FBLL	12-03-24	1340	G	Water										✓							2	
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment: FedEx Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		12-3-24 17:10	MSG		12-3-24 17:10	MSG
2		12-4-24 10:30	MSG	FedEx 4221 9522 1697	12-4-24 10:30	MSG
3		Date/Time:	Company	Stephanie Hernandez	12/6/24 0935	EEA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick Sandie	Carrier Tracking No(s): 4221 9522 1686	COC No: 500-130281-50241 40
Client Contact: Amanda Zeidler	Phone: 906-487-7454	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper LLC	PWSID:	Analysis Requested		Job #: 500-261013
Address: 35362 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4; N None; CB ZnAcetate/NaOH; B NaOH; D HNO3; A HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu.com	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site: White Pine North Baseline Sampling	SSOW#:			Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) - tripli Field Filtered	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS)	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury	6020B - Dissolved Metals (ICP/MS) - 27 elements	1638 - Dissolved Uranium only (ICP/MS) (field f	1631E - Dissolved Mercury, Low Level (CVAFS) (field Filtered	1630_ME - Dissolved Methyl Mercury (field filtered)	5310C - TOC	Total Number of containers	Special Instructions/Note.
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A	S		
11	MW-10_20241203	12.3.24	17:40	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X	22	
12	MW-10_20241203_FBLK	12.3.24	17:40	G	Water										X							2	
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	12.3.24/ 18:50	MSG		12-3-24 18:50	MSG
2		12-4-24 10:00	MSG	FedEx 4221 95221686	12.4.24 10:00	
3				Stephanie Hernandez	12/6/24 0935	EEA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks.





500-261013 Waybi


JED CARESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3855
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
REF:
INV:
PO:
DEPT:
RMA
FedEx express
J243024070401uv
RETURNS MON - SAT
THU - 05 DEC AA
PRIORITY OVERNIGHT
FedEx
TRK# 0221 4221 9522 1697
60484
IL-US
ORD
XP JOTA
5025547 04Dec2024 CMXA 581G4/EB78/5FE5

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): N/A	COC No: 500-195955.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): N/A		
Address: 5755 8th East, ,	Due Date Requested: 12/30/2024			
City: Tacoma	TAT Requested (days): N/A			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: White Pines, MI	Project #: 50023455			
Site: N/A	SSOW#: N/A			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered							
Preservation Code:					X	X													
MW-42_20241203 (500-261013-1)	12/3/24	14:35 Eastern	G	Water			X	X	X	X	X	X							8
MW-42_20241203_FBLL (500-261013-2)	12/3/24	14:35 Eastern	G	Water				X											2
MW-38_20241203 (500-261013-3)	12/3/24	13:30 Eastern	G	Water			X	X	X	X	X	X							8
MW-38_20241203_FBLL (500-261013-4)	12/3/24	13:30 Eastern	G	Water				X											2
MW-36_20241203 (500-261013-5)	12/3/24	15:20 Eastern	G	Water			X	X	X	X	X	X							8
MW-36_20241203_FBLL (500-261013-6)	12/3/24	15:20 Eastern	G	Water				X											2
MW-35_20241203 (500-261013-7)	12/3/24	16:30 Eastern	G	Water				X	X		X	X							6
MW-35_20241203_FBLL (500-261013-8)	12/3/24	16:30 Eastern	G	Water				X											2
MW-37_20241203 (500-261013-9)	12/3/24	13:40 Eastern	G	Water				X	X		X	X							6

Therm. ID: SC01 Cust. Seal: Y / N
Uncorr./Corr. Temp: 3.4 / 2.4 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: 2 Packing: B

Therm. ID: SC02 Cust. Seal: Y / N
Uncorr./Corr. Temp: 14.9 / 13.9 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: 1 Packing: D

Therm. ID: SC03 Cust. Seal: Y / N
Uncorr./Corr. Temp: 1.0 / 0.9 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: 2 Packing: B

Therm. ID: SC01 Cust. Seal: Y / N
Uncorr./Corr. Temp: 0.1 / 0.1 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: 2 Packing: B

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laborat... in accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eu... immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hernandez	12/16/24 1600			12-7-24 0920	Eth
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: IR11 13.9 / 14.9

Ver: 10/10/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): N/A	COC No: 500-195955.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 2
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): N/A		Job #: 500-261013-1
Address: 5755 8th Street East, ,	Due Date Requested: 12/30/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days): N/A			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: White Pines, MI	Project #: 50023455			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-37_20241203_FBLL (500-261013-10)	12/3/24	13:40 Eastern	G	Water				X					2	
MW-10_20241203 (500-261013-11)	12/3/24	17:40 Eastern	G	Water			X	X	X	X	X	X	8	
MW-10_20241203_FBLL (500-261013-12)	12/3/24	17:40 Eastern	G	Water				X					2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Stephanie Hemandez	12/6/24 1600			12-7-24 0920	Eth
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: IR11 13.9/14.9

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-261013-1

Login Number: 261013
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5,4.7,5.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-261013-1

Login Number: 261013
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 12/09/24 12:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-261013 Field Sheet

Date:	12/9/2024
End Time:	1330
KI Paper Lot:	na
Analyst:	VJ

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	42322
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-261013-A-1	A	Y	.8	2	
500-261013-B-1	A	Y	.8	2	
500-261013-C-1	A	Y	.8	2	
500-261013-D-1	A	Y	.8	2	
500-261013-A-2	A	Y	.8	2	
500-261013-A-3	A	Y	.8	2	
500-261013-B-3	A	Y	.8	2	
500-261013-C-3	A	Y	.8	2	
500-261013-D-3	A	Y	.8	2	
500-261013-A-4	A	Y	.8	2	
500-261013-B-4	A	Y	.8	2	
500-261013-A-5	A	Y	.8	2	
500-261013-B-5	A	Y	.8	2	
500-261013-C-5	A	Y	.8	2	
500-261013-D-5	A	Y	.8	2	
500-261013-A-6	A	Y	.8	2	VJ
500-261013-B-6	A	Y	.8	2	
500-261013-A-7	A	Y	.8	2	12/5/24
500-261013-B-7	A	Y	.8	2	
500-261013-C-7	A	Y	.8	2	
500-261013-D-7	A	Y	.8	2	
500-261013-A-8	A	Y	.8	2	
500-261013-B-8	A	Y	.8	2	
500-261013-A-9	A	Y	.8	2	
500-261013-B-9	A	Y	.8	2	
500-261013-C-9	A	Y	.8	2	
500-261013-D-9	A	Y	.8	2	
500-261013-A-10	A	Y	.8	2	
500-261013-B-10	A	Y	.8	2	
500-261013-A-11	A	Y	.8	2	
500-261013-B-11	A	Y	.8	2	
500-261013-C-11	A	Y	.8	2	
500-261013-D-11	A	Y	.8	2	
500-261013-A-12	A	Y	.8	2	
500-261013-B-12	A	Y	.8	2	

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Date:	12/9/2024
End Time:	13:30
KI Paper Lot:	na
Analyst:	[illegible]

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	42322
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
500-261013-A-12	A	Y	.5 2	MD
500-261013-B-12	A	Y	.5 2	

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500-261013 Field Sheet

Date:	12/9/2024
End Time:	14:25
KI Paper Lot:	HC444704
Analyst:	

Preservative ID	Preservative Type	Container ID
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
500-261013-N-5	CL			
500-261013-M-1	CL			
500-261013-M-3	CL			
500-261013-N-1	CL			
500-261013-M-5	CL			
500-261013-N-3	CL			

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

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JOB DESCRIPTION

White Pines, MI

JOB NUMBER

500-261092-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-261092-1

Receipt
The samples were received on 12/6/2024 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 2.3º C, 3.9º C, 4.2º C, 4.7º C, 5.5º C and 5.6º C.

Metals
Method 1630: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 350-3963 and analytical batch 350-4029 were outside control limits, see QC Sample Results for detail. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 1630: The method blank for preparation batch 350-3963 contained Methyl mercury above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction andr re-analysis of samples were not performed.

Method 1638: The continuing calibration blank (CCB) for analytical batch 350-4216 contained Uranium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The following sample was received outside of holding time: MW-44_20241204 (500-261092-19).

Method 300.0: The following sample(s) was received with insufficient time remaining to perform the analysis within holding time: MW-1AR_20241205 (500-261092-1), MW-1BR_20241205 (500-261092-2), ARC-01_20241205 (500-261092-5), DKC-01_20241205 (500-261092-7), MW-43_20241204 (500-261092-9), FB-01-SW_20241204 (500-261092-11), PNC-01_20241205 (500-261092-13), SMW-3_20241204 (500-261092-15), SMW-3SB_20241204 (500-261092-17) and ARC-02_20241204 (500-261092-21).

Method SM 2320B: The method blank for analytical batch 500-798893 contained Alkalinity above the reporting limit (RL). Associated sample(s) were not re-analyzed because results were greater than 10X the value found in the method blank.

Method SM 4500 S2 F: The method blank for analytical batch 500-799026 contained Sulfide above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; and insufficient sample for re-extraction therefore re-analysis of samples was not performed.

Method SM 2320B: The method blank for analytical batch 500-799502 contained Alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-analysis of samples was not performed.

Method SM 2320B: The method blank for analytical batch 500-799707 contained Alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-1AR_20241205 — Lab Sample ID: 500-261092-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.32	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.54		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	16		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	18		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	62	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.78	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	52		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	750	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	41000		200	44	ug/L	1		6020B	Total Recoverable
Copper	0.88	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	72	J	100	47	ug/L	1		6020B	Total Recoverable
Lithium	6.3	J	10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	15000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	17		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	31		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	3400		500	110	ug/L	1		6020B	Total Recoverable
Sodium	92000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	610		4.0	0.64	ug/L	1		6020B	Total Recoverable
Tin	2.8	J	5.0	1.3	ug/L	1		6020B	Total Recoverable
Arsenic	0.66	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	48		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	730	B	50	13	ug/L	1		6020B	Dissolved
Calcium	39000		200	44	ug/L	1		6020B	Dissolved
Copper	0.70	J	2.0	0.50	ug/L	1		6020B	Dissolved
Lithium	5.9	J	10	2.5	ug/L	1		6020B	Dissolved
Magnesium	15000		200	49	ug/L	1		6020B	Dissolved
Manganese	2.8		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	31		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	3200		500	110	ug/L	1		6020B	Dissolved
Sodium	86000		200	77	ug/L	1		6020B	Dissolved
Strontium	580		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	160		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.70	J	1.0	0.45	mg/L	1		300.0	Total/NA
Nitrate as N	0.52	J H	1.0	0.37	mg/L	1		300.0	Total/NA
Chloride	51		5.0	2.1	mg/L	5		300.0	Total/NA
Fluoride	0.51	J	1.0	0.43	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.52	J H	1.0	0.37	mg/L	1		300.0	Total/NA
Sulfate	59		5.0	2.3	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-1AR_20241205 (Continued) — Lab Sample ID: 500-261092-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus as P	0.074		0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	200	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	200	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	370		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	3.2	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	0.74	J	1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	0.76	J	1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-1BR_20241205 — Lab Sample ID: 500-261092-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.32	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	4.8		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	4.9		0.050	0.0098	ug/L	1		1638	Dissolved
Arsenic	4.8		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	110		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	1500	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	65000		200	44	ug/L	1		6020B	Total Recoverable
Copper	0.99	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Lithium	39		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	9500		200	49	ug/L	1		6020B	Total Recoverable
Manganese	200		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	4.9	J	5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	3700		500	110	ug/L	1		6020B	Total Recoverable
Sodium	85000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	1100		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	4.4		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	110		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	1500	B	50	13	ug/L	1		6020B	Dissolved
Calcium	64000		200	44	ug/L	1		6020B	Dissolved
Lithium	38		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	9600		200	49	ug/L	1		6020B	Dissolved
Manganese	180		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	4.7	J	5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	3700		500	110	ug/L	1		6020B	Dissolved
Sodium	83000		200	77	ug/L	1		6020B	Dissolved
Strontium	1100		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	200		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	1.1		1.0	0.45	mg/L	1		300.0	Total/NA
Chloride	95		10	4.2	mg/L	10		300.0	Total/NA
Fluoride	0.48	J	1.0	0.43	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-1BR_20241205 (Continued) — Lab Sample ID: 500-261092-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	43		1.0	0.47	mg/L	1		300.0	Total/NA
Alkalinity	200	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	200	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	410		10	4.3	mg/L	1		SM 2540C	Total/NA
Sulfide	0.32	J	1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	0.62	J	1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	0.82	J	1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-1AR_20241205_FBLL — Lab Sample ID: 500-261092-3

No Detections.

Client Sample ID: MW-1BR_20241205_FBLL — Lab Sample ID: 500-261092-4

No Detections.

Client Sample ID: ARC-01_20241205 — Lab Sample ID: 500-261092-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.1		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	1.0		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.059		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.022	J	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	600		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.33	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	22		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	29	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	16000		200	44	ug/L	1		6020B	Total Recoverable
Copper	5.2		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	990		100	47	ug/L	1		6020B	Total Recoverable
Lead	0.57		0.50	0.19	ug/L	1		6020B	Total Recoverable
Magnesium	4100		200	49	ug/L	1		6020B	Total Recoverable
Manganese	110		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1300		500	110	ug/L	1		6020B	Total Recoverable
Sodium	1200		200	77	ug/L	1		6020B	Total Recoverable
Strontium	38		4.0	0.64	ug/L	1		6020B	Total Recoverable
Zinc	8.4	J	20	6.9	ug/L	1		6020B	Total Recoverable
Barium	17		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	23	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	16000		200	44	ug/L	1		6020B	Dissolved
Copper	3.3		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	83	J	100	47	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: ARC-01_20241205 (Continued) — Lab Sample ID: 500-261092-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	4100		200	49	ug/L	1		6020B	Dissolved
Manganese	7.0		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1300		500	110	ug/L	1		6020B	Dissolved
Sodium	1200		200	77	ug/L	1		6020B	Dissolved
Strontium	38		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	57		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	0.70	J	1.0	0.42	mg/L	1		300.0	Total/NA
Sulfate	0.62	J	1.0	0.47	mg/L	1		300.0	Total/NA
Alkalinity	63	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	63	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	66		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	12		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	6.1		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	5.9		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: ARC-01_20241205_FBLL — Lab Sample ID: 500-261092-6

No Detections.

Client Sample ID: DKC-01_20241205 — Lab Sample ID: 500-261092-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.80		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.96		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.69		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.72		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	95	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.24	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	46		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	37	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	29000		200	44	ug/L	1		6020B	Total Recoverable
Chromium	4.1	J	5.0	1.1	ug/L	1		6020B	Total Recoverable
Copper	2.1		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	180		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	7800		200	49	ug/L	1		6020B	Total Recoverable
Manganese	30		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1300		500	110	ug/L	1		6020B	Total Recoverable
Sodium	2800		200	77	ug/L	1		6020B	Total Recoverable
Strontium	67		4.0	0.64	ug/L	1		6020B	Total Recoverable
Aluminum	110		100	25	ug/L	1		6020B	Dissolved
Barium	48		2.5	0.73	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: DKC-01_20241205 (Continued) — Lab Sample ID: 500-261092-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	35	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	30000		200	44	ug/L	1		6020B	Dissolved
Copper	2.6		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	180		100	47	ug/L	1		6020B	Dissolved
Magnesium	8000		200	49	ug/L	1		6020B	Dissolved
Manganese	35		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1300		500	110	ug/L	1		6020B	Dissolved
Sodium	2900		200	77	ug/L	1		6020B	Dissolved
Strontium	69		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	110		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	0.60	J	1.0	0.42	mg/L	1		300.0	Total/NA
Sulfate	3.5		1.0	0.47	mg/L	1		300.0	Total/NA
Alkalinity	110	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	110	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	100		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	3.8	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA
Sulfide	0.59	J	1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	6.0		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	6.2		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: DKC-01_20241205_FBLL — Lab Sample ID: 500-261092-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.24	J	0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: MW-43_20241204 — Lab Sample ID: 500-261092-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.77		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.54		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	74	^2	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	72	^2	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	62	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.83	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	310		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	76	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	20000		200	44	ug/L	1		6020B	Total Recoverable
Copper	1.4	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	140		100	47	ug/L	1		6020B	Total Recoverable
Lithium	44		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	1200		200	49	ug/L	1		6020B	Total Recoverable
Manganese	1700		2.5	0.79	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-43_20241204 (Continued) — Lab Sample ID: 500-261092-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	7.8		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	260	J	500	110	ug/L	1		6020B	Total Recoverable
Sodium	100000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	390		4.0	0.64	ug/L	1		6020B	Total Recoverable
Vanadium	25		5.0	2.2	ug/L	1		6020B	Total Recoverable
Arsenic	0.68	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	180		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	73	B	50	13	ug/L	1		6020B	Dissolved
Calcium	20000		200	44	ug/L	1		6020B	Dissolved
Lithium	45		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	1200		200	49	ug/L	1		6020B	Dissolved
Manganese	35		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	7.5		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	250	J	500	110	ug/L	1		6020B	Dissolved
Sodium	100000		200	77	ug/L	1		6020B	Dissolved
Strontium	390		4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	17		5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	55		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Chloride	1.2		1.0	0.42	mg/L	1		300.0	Total/NA
Fluoride	0.46	J	1.0	0.43	mg/L	1		300.0	Total/NA
Sulfate	9.4		1.0	0.47	mg/L	1		300.0	Total/NA
Alkalinity	260	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	260	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	300		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	7.4		5.0	1.9	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	0.69	J	1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	0.55	J	1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-43_20241204_FBLL — Lab Sample ID: 500-261092-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.21	J	0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: FB-01-SW_20241204 — Lab Sample ID: 500-261092-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.44	J	0.50	0.20	ng/L	1		1631E	Total/NA
Uranium	0.031	J ^2	0.050	0.0098	ug/L	1		1638	Total Recoverable
Boron	15	J	50	13	ug/L	1		6020B	Total Recoverable
Sodium	140	J	200	77	ug/L	1		6020B	Total Recoverable

Client Sample ID: FB-01-SW_20241204_FBLL — Lab Sample ID: 500-261092-12

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: PNC-01_20241205

Lab Sample ID: 500-261092-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.6		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	1.3		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.046	J	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.042	J ^2	0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	220		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.36	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	16		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	15	J B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	12000		200	44	ug/L	1		6020B	Total Recoverable
Copper	7.1		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	1300		100	47	ug/L	1		6020B	Total Recoverable
Magnesium	3100		200	49	ug/L	1		6020B	Total Recoverable
Manganese	94		2.5	0.79	ug/L	1		6020B	Total Recoverable
Potassium	1600		500	110	ug/L	1		6020B	Total Recoverable
Sodium	1300		200	77	ug/L	1		6020B	Total Recoverable
Strontium	30		4.0	0.64	ug/L	1		6020B	Total Recoverable
Aluminum	45	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.30	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	14		2.5	0.73	ug/L	1		6020B	Dissolved
Calcium	12000		200	44	ug/L	1		6020B	Dissolved
Copper	6.8		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	770		100	47	ug/L	1		6020B	Dissolved
Magnesium	3000		200	49	ug/L	1		6020B	Dissolved
Manganese	85		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1500		500	110	ug/L	1		6020B	Dissolved
Sodium	1300		200	77	ug/L	1		6020B	Dissolved
Strontium	30		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	43		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Nitrate as N	0.48	J H	1.0	0.37	mg/L	1		300.0	Total/NA
Chloride	1.0		1.0	0.42	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.48	J H	1.0	0.37	mg/L	1		300.0	Total/NA
Sulfate	0.57	J	1.0	0.47	mg/L	1		300.0	Total/NA
Alkalinity	47	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	47	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	60		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	39		8.3	3.2	mg/L	1		SM 2540D	Total/NA
Sulfide	0.26	J	1.0	0.23	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	9.0		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	9.2		1.0	0.47	mg/L	1		SM 5310C	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: PNC-01_20241205_FBLL — Lab Sample ID: 500-261092-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.30	J	0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: SMW-3_20241204 — Lab Sample ID: 500-261092-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.40	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.42	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	0.056		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	0.074		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	34	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	1.0		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	35		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	270	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	11000		200	44	ug/L	1		6020B	Total Recoverable
Iron	59	J	100	47	ug/L	1		6020B	Total Recoverable
Magnesium	1600		200	49	ug/L	1		6020B	Total Recoverable
Manganese	15		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	19		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	900		500	110	ug/L	1		6020B	Total Recoverable
Sodium	43000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	110		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	1.1		1.0	0.23	ug/L	1		6020B	Dissolved
Barium	33		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	270	B	50	13	ug/L	1		6020B	Dissolved
Calcium	11000		200	44	ug/L	1		6020B	Dissolved
Magnesium	1600		200	49	ug/L	1		6020B	Dissolved
Manganese	15		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	18		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	890		500	110	ug/L	1		6020B	Dissolved
Sodium	42000		200	77	ug/L	1		6020B	Dissolved
Strontium	110		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	34		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.51	J	1.0	0.45	mg/L	1		300.0	Total/NA
Chloride	39		1.0	0.42	mg/L	1		300.0	Total/NA
Fluoride	0.54	J	1.0	0.43	mg/L	1		300.0	Total/NA
Alkalinity	75	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	75	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	140		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.5		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	3.0		1.0	0.47	mg/L	1		SM 5310C	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: SMW-3_20241204_FBLL — Lab Sample ID: 500-261092-16

No Detections.

Client Sample ID: SMW-3SB_20241204 — Lab Sample ID: 500-261092-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	3.9		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.71		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	2.1	^2	0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	1.0		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	11000		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	2.7		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	74		2.5	0.73	ug/L	1		6020B	Total Recoverable
Beryllium	0.53	J	1.0	0.53	ug/L	1		6020B	Total Recoverable
Boron	4700	B	50	13	ug/L	1		6020B	Total Recoverable
Cadmium	0.17	J	0.50	0.17	ug/L	1		6020B	Total Recoverable
Calcium	8100		200	44	ug/L	1		6020B	Total Recoverable
Chromium	17		5.0	1.1	ug/L	1		6020B	Total Recoverable
Cobalt	6.9		1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	55		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	10000		100	47	ug/L	1		6020B	Total Recoverable
Lead	4.4		0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	26		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	5700		200	49	ug/L	1		6020B	Total Recoverable
Manganese	200		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	14		5.0	2.5	ug/L	1		6020B	Total Recoverable
Nickel	15		2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	4300		500	110	ug/L	1		6020B	Total Recoverable
Selenium	1.4	J	2.5	0.98	ug/L	1		6020B	Total Recoverable
Silver	0.19	J	0.50	0.12	ug/L	1		6020B	Total Recoverable
Sodium	110000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	32		4.0	0.64	ug/L	1		6020B	Total Recoverable
Tin	3.2	J	5.0	1.3	ug/L	1		6020B	Total Recoverable
Vanadium	39		5.0	2.2	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: SMW-3SB_20241204 (Continued) — Lab Sample ID: 500-261092-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	31		20	6.9	ug/L	1		6020B	Total Recoverable
Aluminum	25	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.51	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	8.6		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	4700	B	50	13	ug/L	1		6020B	Dissolved
Calcium	4500		200	44	ug/L	1		6020B	Dissolved
Copper	0.72	J	2.0	0.50	ug/L	1		6020B	Dissolved
Lithium	17		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	820		200	49	ug/L	1		6020B	Dissolved
Manganese	18		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	13		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	1600		500	110	ug/L	1		6020B	Dissolved
Sodium	110000		200	77	ug/L	1		6020B	Dissolved
Strontium	18		4.0	0.64	ug/L	1		6020B	Dissolved
Vanadium	6.0		5.0	2.2	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	44		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.89	J	1.0	0.45	mg/L	1		300.0	Total/NA
Chloride	88		10	4.2	mg/L	10		300.0	Total/NA
Fluoride	1.5		1.0	0.43	mg/L	1		300.0	Total/NA
Sulfate	8.0		1.0	0.47	mg/L	1		300.0	Total/NA
Phosphorus as P	0.27		0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	110	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	110	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	330		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	160		25	9.7	mg/L	1		SM 2540D	Total/NA
Total Organic Carbon	2.5		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	2.0		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: SMW-3SB_20241204_FBLL — Lab Sample ID: 500-261092-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.22	J	0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: MW-44_20241204 — Lab Sample ID: 500-261092-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.24	J	0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	0.28	J	0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	11		0.050	0.0098	ug/L	1		1638	Total Recoverable
Uranium	9.7		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	53	J	100	25	ug/L	1		6020B	Total Recoverable
Arsenic	0.32	J	1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	260		2.5	0.73	ug/L	1		6020B	Total Recoverable
Boron	250	B	50	13	ug/L	1		6020B	Total Recoverable
Calcium	38000		200	44	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-44_20241204 (Continued) — Lab Sample ID: 500-261092-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.52	J	2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	96	J	100	47	ug/L	1		6020B	Total Recoverable
Lithium	31		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	8400		200	49	ug/L	1		6020B	Total Recoverable
Manganese	180		2.5	0.79	ug/L	1		6020B	Total Recoverable
Molybdenum	55		5.0	2.5	ug/L	1		6020B	Total Recoverable
Potassium	890		500	110	ug/L	1		6020B	Total Recoverable
Sodium	98000		200	77	ug/L	1		6020B	Total Recoverable
Strontium	750		4.0	0.64	ug/L	1		6020B	Total Recoverable
Arsenic	0.29	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	250		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	260	B	50	13	ug/L	1		6020B	Dissolved
Calcium	35000		200	44	ug/L	1		6020B	Dissolved
Iron	47	J	100	47	ug/L	1		6020B	Dissolved
Lithium	32		10	2.5	ug/L	1		6020B	Dissolved
Magnesium	7600		200	49	ug/L	1		6020B	Dissolved
Manganese	160		2.5	0.79	ug/L	1		6020B	Dissolved
Molybdenum	67		5.0	2.5	ug/L	1		6020B	Dissolved
Potassium	830		500	110	ug/L	1		6020B	Dissolved
Sodium	110000		200	77	ug/L	1		6020B	Dissolved
Strontium	700		4.0	0.64	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	130		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Bromide	0.62	J	1.0	0.45	mg/L	1		300.0	Total/NA
Chloride	59		10	4.2	mg/L	10		300.0	Total/NA
Fluoride	0.87	J	1.0	0.43	mg/L	1		300.0	Total/NA
Sulfate	23		1.0	0.47	mg/L	1		300.0	Total/NA
Alkalinity	220	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	220	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	380		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	0.52	J	1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	0.52	J	1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: MW-44_20241204_FBLL — Lab Sample ID: 500-261092-20

No Detections.

Client Sample ID: ARC-02_20241204 — Lab Sample ID: 500-261092-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Mercury	0.88		0.050	0.022	ng/L	1		1630	Total/NA
Methyl Mercury	0.15		0.050	0.022	ng/L	1		1630	Dissolved
Mercury	55		0.50	0.20	ng/L	1		1631E	Total/NA
Mercury	3.8		0.50	0.20	ng/L	1		1631E	Dissolved
Uranium	3.8		0.050	0.0098	ug/L	1		1638	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: ARC-02_20241204 (Continued)

Lab Sample ID: 500-261092-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Uranium	0.10		0.050	0.0098	ug/L	1		1638	Dissolved
Aluminum	29000		100	25	ug/L	1		6020B	Total Recoverable
Arsenic	4.8		1.0	0.23	ug/L	1		6020B	Total Recoverable
Barium	260		2.5	0.73	ug/L	1		6020B	Total Recoverable
Beryllium	1.1		1.0	0.53	ug/L	1		6020B	Total Recoverable
Boron	40	J B	50	13	ug/L	1		6020B	Total Recoverable
Cadmium	1.4		0.50	0.17	ug/L	1		6020B	Total Recoverable
Calcium	24000		200	44	ug/L	1		6020B	Total Recoverable
Chromium	34		5.0	1.1	ug/L	1		6020B	Total Recoverable
Cobalt	18		1.0	0.40	ug/L	1		6020B	Total Recoverable
Copper	140		2.0	0.50	ug/L	1		6020B	Total Recoverable
Iron	30000		100	47	ug/L	1		6020B	Total Recoverable
Lead	16		0.50	0.19	ug/L	1		6020B	Total Recoverable
Lithium	30		10	2.5	ug/L	1		6020B	Total Recoverable
Magnesium	11000		200	49	ug/L	1		6020B	Total Recoverable
Manganese	1900		2.5	0.79	ug/L	1		6020B	Total Recoverable
Nickel	31		2.0	0.63	ug/L	1		6020B	Total Recoverable
Potassium	6300		500	110	ug/L	1		6020B	Total Recoverable
Selenium	1.7	J	2.5	0.98	ug/L	1		6020B	Total Recoverable
Silver	0.34	J	0.50	0.12	ug/L	1		6020B	Total Recoverable
Sodium	3200		200	77	ug/L	1		6020B	Total Recoverable
Strontium	110		4.0	0.64	ug/L	1		6020B	Total Recoverable
Tin	1.8	J	5.0	1.3	ug/L	1		6020B	Total Recoverable
Vanadium	66		5.0	2.2	ug/L	1		6020B	Total Recoverable
Zinc	150		20	6.9	ug/L	1		6020B	Total Recoverable
Aluminum	49	J	100	25	ug/L	1		6020B	Dissolved
Arsenic	0.40	J	1.0	0.23	ug/L	1		6020B	Dissolved
Barium	26		2.5	0.73	ug/L	1		6020B	Dissolved
Boron	27	J B	50	13	ug/L	1		6020B	Dissolved
Calcium	16000		200	44	ug/L	1		6020B	Dissolved
Cobalt	0.60	J	1.0	0.40	ug/L	1		6020B	Dissolved
Copper	8.4		2.0	0.50	ug/L	1		6020B	Dissolved
Iron	580		100	47	ug/L	1		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: ARC-02_20241204 (Continued) — Lab Sample ID: 500-261092-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	3700		200	49	ug/L	1		6020B	Dissolved
Manganese	360		2.5	0.79	ug/L	1		6020B	Dissolved
Potassium	1600		500	110	ug/L	1		6020B	Dissolved
Sodium	2200		200	77	ug/L	1		6020B	Dissolved
Strontium	63		4.0	0.64	ug/L	1		6020B	Dissolved
Zinc	7.4	J	20	6.9	ug/L	1		6020B	Dissolved
Hardness as calcium carbonate	110		0.91	0.46	mg/L	1		SM 2340B	Total Recoverable
Nitrate as N	0.49	J H	1.0	0.37	mg/L	1		300.0	Total/NA
Chloride	3.5		1.0	0.42	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.49	J H	1.0	0.37	mg/L	1		300.0	Total/NA
Sulfate	1.4		1.0	0.47	mg/L	1		300.0	Total/NA
Ammonia	0.15	J	0.20	0.10	mg/L	1		350.1	Total/NA
Phosphorus as P	0.27		0.050	0.024	mg/L	1		365.1	Total/NA
Alkalinity	52	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	52	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	86		10	4.3	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	2300		250	97	mg/L	1		SM 2540D	Total/NA
Sulfide	1.0	J B	2.5	0.58	mg/L	1		SM 4500 S2 F	Total/NA
Total Organic Carbon	16		1.0	0.47	mg/L	1		SM 5310C	Total/NA
Dissolved Organic Carbon	11		1.0	0.47	mg/L	1		SM 5310C	Dissolved

Client Sample ID: ARC-02_20241204_FBLL — Lab Sample ID: 500-261092-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.27	J	0.50	0.20	ng/L	1		1631E	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Method	Method Description	Protocol	Laboratory
1630	Methyl Mercury	EPA	EET SSM
1631E	Mercury, Low Level (CVAFS)	EPA	EET SSM
1638	Metals (ICP/MS)	EPA	EET SSM
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
335.4	Cyanide, Total	EPA	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CHI
365.1	Phosphorus, Total	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2520B	Salinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
SM 4500 S2 F	Sulfide, Total	SM	EET CHI
SM 5310C	Organic Carbon, Dissolved (DOC)	SM	EET CHI
SM 5310C	TOC	SM	EET CHI
1630	Distillation, Methyl Mercury	EPA	EET SSM
1638	Preparation, Total Recoverable Metals	EPA	EET SSM
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
365.2/365.3/365	Phosphorus, Total	EPA	EET CHI
Distill/Ammonia	Distillation, Ammonia	None	EET CHI
Distill/CN	Distillation, Cyanide	None	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-261092-1	MW-1AR_20241205	Water	12/05/24 09:45	12/06/24 09:35
500-261092-2	MW-1BR_20241205	Water	12/05/24 11:30	12/06/24 09:35
500-261092-3	MW-1AR_20241205_FBLL	Water	12/05/24 09:45	12/06/24 09:35
500-261092-4	MW-1BR_20241205_FBLL	Water	12/05/24 11:30	12/06/24 09:35
500-261092-5	ARC-01_20241205	Water	12/05/24 09:10	12/06/24 09:35
500-261092-6	ARC-01_20241205_FBLL	Water	12/05/24 09:10	12/06/24 09:35
500-261092-7	DKC-01_20241205	Water	12/05/24 10:40	12/06/24 09:35
500-261092-8	DKC-01_20241205_FBLL	Water	12/05/24 10:40	12/06/24 09:35
500-261092-9	MW-43_20241204	Water	12/04/24 11:40	12/06/24 09:35
500-261092-10	MW-43_20241204_FBLL	Water	12/04/24 11:40	12/06/24 09:35
500-261092-11	FB-01-SW_20241204	Water	12/04/24 17:20	12/06/24 09:35
500-261092-12	FB-01-SW_20241204_FBLL	Water	12/04/24 17:20	12/06/24 09:35
500-261092-13	PNC-01_20241205	Water	12/05/24 11:40	12/06/24 09:35
500-261092-14	PNC-01_20241205_FBLL	Water	12/05/24 11:40	12/06/24 09:35
500-261092-15	SMW-3_20241204	Water	12/04/24 11:00	12/06/24 09:35
500-261092-16	SMW-3_20241204_FBLL	Water	12/04/24 11:00	12/06/24 09:35
500-261092-17	SMW-3SB_20241204	Water	12/04/24 17:00	12/06/24 09:35
500-261092-18	SMW-3SB_20241204_FBLL	Water	12/04/24 17:00	12/06/24 09:35
500-261092-19	MW-44_20241204	Water	12/04/24 10:20	12/06/24 09:35
500-261092-20	MW-44_20241204_FBLL	Water	12/04/24 10:20	12/06/24 09:35
500-261092-21	ARC-02_20241204	Water	12/04/24 15:30	12/06/24 09:35
500-261092-22	ARC-02_20241204_FBLL	Water	12/04/24 15:30	12/06/24 09:35

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-1AR_20241205

Date Collected: 12/05/24 09:45
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-1

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 22:52	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 23:02	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.32**	**J**	0.50	0.20	ng/L			12/18/24 17:20	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.54**		0.50	0.20	ng/L			12/18/24 17:24	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**16**		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 13:36	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**18**		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 13:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**62**	**J**	100	25	ug/L		12/17/24 08:19	12/18/24 16:03	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:03	1
Arsenic	**0.78**	**J**	1.0	0.23	ug/L		12/17/24 08:19	12/18/24 16:03	1
Barium	**52**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 16:03	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 16:03	1
Boron	**750**	**B**	50	13	ug/L		12/17/24 08:19	12/19/24 11:19	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 16:03	1
Calcium	**41000**		200	44	ug/L		12/17/24 08:19	12/18/24 16:03	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 16:03	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 16:03	1
Copper	**0.88**	**J**	2.0	0.50	ug/L		12/17/24 08:19	12/18/24 16:03	1
Iron	**72**	**J**	100	47	ug/L		12/17/24 08:19	12/18/24 16:03	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 16:03	1
Lithium	**6.3**	**J**	10	2.5	ug/L		12/17/24 08:19	12/18/24 16:03	1
Magnesium	**15000**		200	49	ug/L		12/17/24 08:19	12/18/24 16:03	1
Manganese	**17**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 16:03	1
Molybdenum	**31**		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 16:03	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 16:03	1
Potassium	**3400**		500	110	ug/L		12/17/24 08:19	12/18/24 16:03	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 16:03	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 16:03	1
Sodium	**92000**		200	77	ug/L		12/17/24 08:19	12/18/24 16:03	1
Strontium	**610**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 16:03	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 16:03	1
Tin	**2.8**	**J**	5.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:03	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 16:03	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 16:03	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-1AR_20241205

Date Collected: 12/05/24 09:45
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-1

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/17/24 08:19	12/18/24 16:44	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:44	1
Arsenic	**0.66**	**J**	1.0	0.23	ug/L		12/17/24 08:19	12/18/24 16:44	1
Barium	**48**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 16:44	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 16:44	1
Boron	**730**	**B**	50	13	ug/L		12/17/24 08:19	12/18/24 16:44	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 16:44	1
Calcium	**39000**		200	44	ug/L		12/17/24 08:19	12/18/24 16:44	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 16:44	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 16:44	1
Copper	**0.70**	**J**	2.0	0.50	ug/L		12/17/24 08:19	12/18/24 16:44	1
Iron	<47		100	47	ug/L		12/17/24 08:19	12/18/24 16:44	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 16:44	1
Lithium	**5.9**	**J**	10	2.5	ug/L		12/17/24 08:19	12/18/24 16:44	1
Magnesium	**15000**		200	49	ug/L		12/17/24 08:19	12/18/24 16:44	1
Manganese	**2.8**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 16:44	1
Molybdenum	**31**		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 16:44	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 16:44	1
Potassium	**3200**		500	110	ug/L		12/17/24 08:19	12/18/24 16:44	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 16:44	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 16:44	1
Sodium	**86000**		200	77	ug/L		12/17/24 08:19	12/18/24 16:44	1
Strontium	**580**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 16:44	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 16:44	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:44	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 16:44	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 16:44	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**160**		0.91	0.46	mg/L		12/17/24 08:19	12/19/24 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.70**	**J**	1.0	0.45	mg/L			12/07/24 11:33	1
Nitrate as N (EPA 300.0)	**0.52**	**J H**	1.0	0.37	mg/L			12/07/24 11:33	1
Chloride (EPA 300.0)	**51**		5.0	2.1	mg/L			12/27/24 13:35	5
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/07/24 11:33	1
Fluoride (EPA 300.0)	**0.51**	**J**	1.0	0.43	mg/L			12/07/24 11:33	1
Nitrate Nitrite as N (EPA 300.0)	**0.52**	**J H**	1.0	0.37	mg/L			12/07/24 11:33	1
Sulfate (EPA 300.0)	**59**		5.0	2.3	mg/L			12/27/24 13:35	5
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/11/24 13:45	12/11/24 16:33	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/20/24 11:36	12/20/24 16:04	1
Phosphorus as P (EPA 365.1)	**0.074**		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 11:02	1
Alkalinity (SM 2320B)	**200**	**B**	5.0	3.7	mg/L			12/09/24 18:18	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**200**	**B**	5.0	3.7	mg/L			12/09/24 18:18	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 18:18	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/22/24 15:01	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-1AR_20241205
Date Collected: 12/05/24 09:45
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	370		10	4.3	mg/L			12/10/24 23:12	1
Total Suspended Solids (SM 2540D)	3.2	J	5.0	1.9	mg/L			12/11/24 16:37	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			12/12/24 02:31	1
Total Organic Carbon (SM 5310C)	0.74	J	1.0	0.47	mg/L			12/08/24 23:30	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	0.76	J	1.0	0.47	mg/L			12/11/24 07:30	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-1BR_20241205

Date Collected: 12/05/24 11:30
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-2

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 19:07	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 23:12	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/18/24 17:28	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.32**	**J**	0.50	0.20	ng/L			12/18/24 17:32	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**4.8**		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 13:08	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**4.9**		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 13:43	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/17/24 08:19	12/18/24 16:21	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:21	1
Arsenic	**4.8**		1.0	0.23	ug/L		12/17/24 08:19	12/18/24 16:21	1
Barium	**110**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 16:21	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 16:21	1
Boron	**1500**	**B**	50	13	ug/L		12/17/24 08:19	12/18/24 16:21	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 16:21	1
Calcium	**65000**		200	44	ug/L		12/17/24 08:19	12/18/24 16:21	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 16:21	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 16:21	1
Copper	**0.99**	**J**	2.0	0.50	ug/L		12/17/24 08:19	12/18/24 16:21	1
Iron	<47		100	47	ug/L		12/17/24 08:19	12/18/24 16:21	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 16:21	1
Lithium	**39**		10	2.5	ug/L		12/17/24 08:19	12/18/24 16:21	1
Magnesium	**9500**		200	49	ug/L		12/17/24 08:19	12/18/24 16:21	1
Manganese	**200**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 16:21	1
Molybdenum	**4.9**	**J**	5.0	2.5	ug/L		12/17/24 08:19	12/18/24 16:21	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 16:21	1
Potassium	**3700**		500	110	ug/L		12/17/24 08:19	12/18/24 16:21	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 16:21	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 16:21	1
Sodium	**85000**		200	77	ug/L		12/17/24 08:19	12/18/24 16:21	1
Strontium	**1100**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 16:21	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 16:21	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:21	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 16:21	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 16:21	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-1BR_20241205

Date Collected: 12/05/24 11:30
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-2

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/17/24 08:19	12/18/24 16:51	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:51	1
Arsenic	**4.4**		1.0	0.23	ug/L		12/17/24 08:19	12/18/24 16:51	1
Barium	**110**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 16:51	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 16:51	1
Boron	**1500**	**B**	50	13	ug/L		12/17/24 08:19	12/18/24 16:51	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 16:51	1
Calcium	**64000**		200	44	ug/L		12/17/24 08:19	12/18/24 16:51	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 16:51	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 16:51	1
Copper	<0.50		2.0	0.50	ug/L		12/17/24 08:19	12/18/24 16:51	1
Iron	<47		100	47	ug/L		12/17/24 08:19	12/18/24 16:51	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 16:51	1
Lithium	**38**		10	2.5	ug/L		12/17/24 08:19	12/18/24 16:51	1
Magnesium	**9600**		200	49	ug/L		12/17/24 08:19	12/18/24 16:51	1
Manganese	**180**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 16:51	1
Molybdenum	**4.7**	**J**	5.0	2.5	ug/L		12/17/24 08:19	12/18/24 16:51	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 16:51	1
Potassium	**3700**		500	110	ug/L		12/17/24 08:19	12/18/24 16:51	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 16:51	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 16:51	1
Sodium	**83000**		200	77	ug/L		12/17/24 08:19	12/18/24 16:51	1
Strontium	**1100**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 16:51	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 16:51	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:51	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 16:51	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 16:51	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**200**		0.91	0.46	mg/L		12/17/24 08:19	12/19/24 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**1.1**		1.0	0.45	mg/L			12/07/24 12:51	1
Nitrate as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/07/24 12:51	1
Chloride (EPA 300.0)	**95**		10	4.2	mg/L			12/27/24 13:50	10
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/07/24 12:51	1
Fluoride (EPA 300.0)	**0.48**	**J**	1.0	0.43	mg/L			12/07/24 12:51	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/07/24 12:51	1
Sulfate (EPA 300.0)	**43**		1.0	0.47	mg/L			12/07/24 12:51	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/11/24 13:45	12/11/24 16:34	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/20/24 11:36	12/20/24 16:05	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 11:03	1
Alkalinity (SM 2320B)	**200**	**B**	5.0	3.7	mg/L			12/09/24 18:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**200**	**B**	5.0	3.7	mg/L			12/09/24 18:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 18:27	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/22/24 15:01	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-1BR_20241205
Date Collected: 12/05/24 11:30
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-2
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**410**		10	4.3	mg/L			12/10/24 23:14	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			12/12/24 12:55	1
Sulfide (SM 4500 S2 F)	**0.32**	**J**	1.0	0.23	mg/L			12/12/24 02:36	1
Total Organic Carbon (SM 5310C)	**0.62**	**J**	1.0	0.47	mg/L			12/08/24 23:58	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**0.82**	**J**	1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-1AR_20241205_FBLL

Lab Sample ID: 500-261092-3

Date Collected: 12/05/24 09:45
Matrix: Water
Date Received: 12/06/24 09:35

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/18/24 17:36	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-1BR_20241205_FBLL

Lab Sample ID: 500-261092-4

Date Collected: 12/05/24 11:30
Matrix: Water
Date Received: 12/06/24 09:35

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/18/24 17:40	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: ARC-01_20241205

Date Collected: 12/05/24 09:10
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-5

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 18:51	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 19:01	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.1**		0.50	0.20	ng/L			12/18/24 17:45	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.0**		0.50	0.20	ng/L			12/18/24 17:49	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.059**		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 13:46	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.022**	**J**	0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 13:49	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**600**		100	25	ug/L		12/17/24 08:19	12/18/24 16:23	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:23	1
Arsenic	**0.33**	**J**	1.0	0.23	ug/L		12/17/24 08:19	12/18/24 16:23	1
Barium	**22**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 16:23	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 16:23	1
Boron	**29**	**J B**	50	13	ug/L		12/17/24 08:19	12/18/24 16:23	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 16:23	1
Calcium	**16000**		200	44	ug/L		12/17/24 08:19	12/18/24 16:23	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 16:23	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 16:23	1
Copper	**5.2**		2.0	0.50	ug/L		12/17/24 08:19	12/18/24 16:23	1
Iron	**990**		100	47	ug/L		12/17/24 08:19	12/18/24 16:23	1
Lead	**0.57**		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 16:23	1
Lithium	<2.5		10	2.5	ug/L		12/17/24 08:19	12/18/24 16:23	1
Magnesium	**4100**		200	49	ug/L		12/17/24 08:19	12/18/24 16:23	1
Manganese	**110**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 16:23	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 16:23	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 16:23	1
Potassium	**1300**		500	110	ug/L		12/17/24 08:19	12/18/24 16:23	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 16:23	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 16:23	1
Sodium	**1200**		200	77	ug/L		12/17/24 08:19	12/18/24 16:23	1
Strontium	**38**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 16:23	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 16:23	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:23	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 16:23	1
Zinc	**8.4**	**J**	20	6.9	ug/L		12/17/24 08:19	12/18/24 16:23	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: ARC-01_20241205

Date Collected: 12/05/24 09:10
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-5

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/17/24 08:19	12/18/24 16:54	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:54	1
Arsenic	<0.23		1.0	0.23	ug/L		12/17/24 08:19	12/18/24 16:54	1
Barium	**17**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 16:54	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 16:54	1
Boron	**23**	**J B**	50	13	ug/L		12/17/24 08:19	12/18/24 16:54	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 16:54	1
Calcium	**16000**		200	44	ug/L		12/17/24 08:19	12/18/24 16:54	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 16:54	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 16:54	1
Copper	**3.3**		2.0	0.50	ug/L		12/17/24 08:19	12/18/24 16:54	1
Iron	**83**	**J**	100	47	ug/L		12/17/24 08:19	12/18/24 16:54	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 16:54	1
Lithium	<2.5		10	2.5	ug/L		12/17/24 08:19	12/18/24 16:54	1
Magnesium	**4100**		200	49	ug/L		12/17/24 08:19	12/18/24 16:54	1
Manganese	**7.0**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 16:54	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 16:54	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 16:54	1
Potassium	**1300**		500	110	ug/L		12/17/24 08:19	12/18/24 16:54	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 16:54	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 16:54	1
Sodium	**1200**		200	77	ug/L		12/17/24 08:19	12/18/24 16:54	1
Strontium	**38**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 16:54	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 16:54	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:54	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 16:54	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 16:54	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**57**		0.91	0.46	mg/L		12/17/24 08:19	12/19/24 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.45		1.0	0.45	mg/L			12/07/24 13:07	1
Nitrate as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/07/24 13:07	1
Chloride (EPA 300.0)	**0.70**	**J**	1.0	0.42	mg/L			12/07/24 13:07	1
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/07/24 13:07	1
Fluoride (EPA 300.0)	<0.43		1.0	0.43	mg/L			12/07/24 13:07	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/07/24 13:07	1
Sulfate (EPA 300.0)	**0.62**	**J**	1.0	0.47	mg/L			12/07/24 13:07	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/11/24 13:45	12/11/24 16:36	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/20/24 11:36	12/20/24 16:06	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/16/24 09:29	12/19/24 13:30	1
Alkalinity (SM 2320B)	**63**	**B**	5.0	3.7	mg/L			12/09/24 18:36	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**63**	**B**	5.0	3.7	mg/L			12/09/24 18:36	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 18:36	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/22/24 15:01	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: ARC-01_20241205
Date Collected: 12/05/24 09:10
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-5
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	66		10	4.3	mg/L			12/10/24 23:17	1
Total Suspended Solids (SM 2540D)	12		5.0	1.9	mg/L			12/12/24 12:58	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			12/12/24 02:40	1
Total Organic Carbon (SM 5310C)	6.1		1.0	0.47	mg/L			12/09/24 00:26	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	5.9		1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: ARC-01_20241205_FBLL

Date Collected: 12/05/24 09:10
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-6

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/18/24 17:53	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: DKC-01_20241205

Date Collected: 12/05/24 10:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-7

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 19:11	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 19:21	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.80**		0.50	0.20	ng/L			12/18/24 17:57	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.96**		0.50	0.20	ng/L			12/18/24 18:09	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.69**		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 13:53	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.72**		0.050	0.0098	ug/L		12/27/24 17:34	12/31/24 12:43	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**95**	**J**	100	25	ug/L		12/17/24 08:19	12/18/24 16:26	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:26	1
Arsenic	**0.24**	**J**	1.0	0.23	ug/L		12/17/24 08:19	12/18/24 16:26	1
Barium	**46**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 16:26	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 16:26	1
Boron	**37**	**J B**	50	13	ug/L		12/17/24 08:19	12/18/24 16:26	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 16:26	1
Calcium	**29000**		200	44	ug/L		12/17/24 08:19	12/18/24 16:26	1
Chromium	**4.1**	**J**	5.0	1.1	ug/L		12/17/24 08:19	12/18/24 16:26	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 16:26	1
Copper	**2.1**		2.0	0.50	ug/L		12/17/24 08:19	12/18/24 16:26	1
Iron	**180**		100	47	ug/L		12/17/24 08:19	12/18/24 16:26	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 16:26	1
Lithium	<2.5		10	2.5	ug/L		12/17/24 08:19	12/18/24 16:26	1
Magnesium	**7800**		200	49	ug/L		12/17/24 08:19	12/18/24 16:26	1
Manganese	**30**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 16:26	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 16:26	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 16:26	1
Potassium	**1300**		500	110	ug/L		12/17/24 08:19	12/18/24 16:26	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 16:26	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 16:26	1
Sodium	**2800**		200	77	ug/L		12/17/24 08:19	12/18/24 16:26	1
Strontium	**67**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 16:26	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 16:26	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:26	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 16:26	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 16:26	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: DKC-01_20241205

Date Collected: 12/05/24 10:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-7

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**110**		100	25	ug/L		12/17/24 08:19	12/18/24 16:56	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:56	1
Arsenic	<0.23		1.0	0.23	ug/L		12/17/24 08:19	12/18/24 16:56	1
Barium	**48**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 16:56	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 16:56	1
Boron	**35**	**J B**	50	13	ug/L		12/17/24 08:19	12/18/24 16:56	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 16:56	1
Calcium	**30000**		200	44	ug/L		12/17/24 08:19	12/18/24 16:56	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 16:56	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 16:56	1
Copper	**2.6**		2.0	0.50	ug/L		12/17/24 08:19	12/18/24 16:56	1
Iron	**180**		100	47	ug/L		12/17/24 08:19	12/18/24 16:56	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 16:56	1
Lithium	<2.5		10	2.5	ug/L		12/17/24 08:19	12/18/24 16:56	1
Magnesium	**8000**		200	49	ug/L		12/17/24 08:19	12/18/24 16:56	1
Manganese	**35**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 16:56	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 16:56	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 16:56	1
Potassium	**1300**		500	110	ug/L		12/17/24 08:19	12/18/24 16:56	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 16:56	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 16:56	1
Sodium	**2900**		200	77	ug/L		12/17/24 08:19	12/18/24 16:56	1
Strontium	**69**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 16:56	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 16:56	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:56	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 16:56	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 16:56	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**110**		0.91	0.46	mg/L		12/17/24 08:19	12/19/24 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.45		1.0	0.45	mg/L			12/07/24 13:23	1
Nitrate as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/07/24 13:23	1
Chloride (EPA 300.0)	**0.60**	**J**	1.0	0.42	mg/L			12/07/24 13:23	1
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/07/24 13:23	1
Fluoride (EPA 300.0)	<0.43		1.0	0.43	mg/L			12/07/24 13:23	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/07/24 13:23	1
Sulfate (EPA 300.0)	**3.5**		1.0	0.47	mg/L			12/07/24 13:23	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/11/24 13:45	12/11/24 16:38	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/20/24 11:36	12/20/24 16:06	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/16/24 09:29	12/19/24 13:31	1
Alkalinity (SM 2320B)	**110**	**B**	5.0	3.7	mg/L			12/09/24 18:44	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**110**	**B**	5.0	3.7	mg/L			12/09/24 18:44	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 18:44	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/22/24 15:01	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: DKC-01_20241205
Date Collected: 12/05/24 10:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-7
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	100		10	4.3	mg/L			12/10/24 23:20	1
Total Suspended Solids (SM 2540D)	3.8	J	5.0	1.9	mg/L			12/12/24 12:59	1
Sulfide (SM 4500 S2 F)	0.59	J	1.0	0.23	mg/L			12/12/24 02:44	1
Total Organic Carbon (SM 5310C)	6.0		1.0	0.47	mg/L			12/09/24 18:58	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	6.2		1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: DKC-01_20241205_FBLL
Date Collected: 12/05/24 10:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-8
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24	J	0.50	0.20	ng/L			12/18/24 18:14	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-43_20241204

Date Collected: 12/04/24 11:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-9

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 19:52	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 20:02	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.77**		0.50	0.20	ng/L			12/18/24 18:18	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.54**		0.50	0.20	ng/L			12/18/24 18:22	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**74**	**^2**	0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 14:07	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**72**	**^2**	0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 14:10	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**62**	**J**	100	25	ug/L		12/17/24 08:19	12/18/24 16:28	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:28	1
Arsenic	**0.83**	**J**	1.0	0.23	ug/L		12/17/24 08:19	12/18/24 16:28	1
Barium	**310**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 16:28	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 16:28	1
Boron	**76**	**B**	50	13	ug/L		12/17/24 08:19	12/18/24 16:28	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 16:28	1
Calcium	**20000**		200	44	ug/L		12/17/24 08:19	12/18/24 16:28	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 16:28	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 16:28	1
Copper	**1.4**	**J**	2.0	0.50	ug/L		12/17/24 08:19	12/18/24 16:28	1
Iron	**140**		100	47	ug/L		12/17/24 08:19	12/18/24 16:28	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 16:28	1
Lithium	**44**		10	2.5	ug/L		12/17/24 08:19	12/18/24 16:28	1
Magnesium	**1200**		200	49	ug/L		12/17/24 08:19	12/18/24 16:28	1
Manganese	**1700**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 16:28	1
Molybdenum	**7.8**		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 16:28	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 16:28	1
Potassium	**260**	**J**	500	110	ug/L		12/17/24 08:19	12/18/24 16:28	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 16:28	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 16:28	1
Sodium	**100000**		200	77	ug/L		12/17/24 08:19	12/18/24 16:28	1
Strontium	**390**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 16:28	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 16:28	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:28	1
Vanadium	**25**		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 16:28	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 16:28	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-43_20241204

Date Collected: 12/04/24 11:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-9

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/17/24 08:19	12/18/24 16:59	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:59	1
Arsenic	**0.68**	**J**	1.0	0.23	ug/L		12/17/24 08:19	12/18/24 16:59	1
Barium	**180**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 16:59	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 16:59	1
Boron	**73**	**B**	50	13	ug/L		12/17/24 08:19	12/18/24 16:59	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 16:59	1
Calcium	**20000**		200	44	ug/L		12/17/24 08:19	12/18/24 16:59	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 16:59	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 16:59	1
Copper	<0.50		2.0	0.50	ug/L		12/17/24 08:19	12/18/24 16:59	1
Iron	<47		100	47	ug/L		12/17/24 08:19	12/18/24 16:59	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 16:59	1
Lithium	**45**		10	2.5	ug/L		12/17/24 08:19	12/18/24 16:59	1
Magnesium	**1200**		200	49	ug/L		12/17/24 08:19	12/18/24 16:59	1
Manganese	**35**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 16:59	1
Molybdenum	**7.5**		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 16:59	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 16:59	1
Potassium	**250**	**J**	500	110	ug/L		12/17/24 08:19	12/18/24 16:59	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 16:59	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 16:59	1
Sodium	**100000**		200	77	ug/L		12/17/24 08:19	12/18/24 16:59	1
Strontium	**390**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 16:59	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 16:59	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:59	1
Vanadium	**17**		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 16:59	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 16:59	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**55**		0.91	0.46	mg/L		12/17/24 08:19	12/19/24 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.45		1.0	0.45	mg/L			12/07/24 10:00	1
Nitrate as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/07/24 10:00	1
Chloride (EPA 300.0)	**1.2**		1.0	0.42	mg/L			12/07/24 10:00	1
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/07/24 10:00	1
Fluoride (EPA 300.0)	**0.46**	**J**	1.0	0.43	mg/L			12/07/24 10:00	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/07/24 10:00	1
Sulfate (EPA 300.0)	**9.4**		1.0	0.47	mg/L			12/07/24 10:00	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/09/24 10:52	12/09/24 13:04	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/20/24 11:36	12/20/24 16:07	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 10:59	1
Alkalinity (SM 2320B)	**260**	**B**	5.0	3.7	mg/L			12/09/24 18:53	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**260**	**B**	5.0	3.7	mg/L			12/09/24 18:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 18:53	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/22/24 15:01	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-43_20241204
Date Collected: 12/04/24 11:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-9
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	300		10	4.3	mg/L			12/10/24 23:22	1
Total Suspended Solids (SM 2540D)	7.4		5.0	1.9	mg/L			12/11/24 15:09	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			12/10/24 00:30	1
Total Organic Carbon (SM 5310C)	0.69	J	1.0	0.47	mg/L			12/09/24 19:26	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	0.55	J	1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-43_20241204_FBLL

Date Collected: 12/04/24 11:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-10

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21	J	0.50	0.20	ng/L			12/18/24 18:26	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: FB-01-SW_20241204

Date Collected: 12/04/24 17:20
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-11

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 20:12	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.44**	**J**	0.50	0.20	ng/L			12/18/24 18:30	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.031**	**J ^2**	0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 14:14	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/18/24 08:27	12/20/24 15:26	1
Antimony	<1.3		3.0	1.3	ug/L		12/18/24 08:27	12/20/24 15:26	1
Arsenic	<0.23		1.0	0.23	ug/L		12/18/24 08:27	12/20/24 15:26	1
Barium	<0.73		2.5	0.73	ug/L		12/18/24 08:27	12/20/24 15:26	1
Beryllium	<0.53		1.0	0.53	ug/L		12/18/24 08:27	12/20/24 15:26	1
Boron	**15**	**J**	50	13	ug/L		12/18/24 08:27	12/20/24 15:26	1
Cadmium	<0.17		0.50	0.17	ug/L		12/18/24 08:27	12/20/24 15:26	1
Calcium	<44		200	44	ug/L		12/18/24 08:27	12/20/24 15:26	1
Chromium	<1.1		5.0	1.1	ug/L		12/18/24 08:27	12/20/24 15:26	1
Cobalt	<0.40		1.0	0.40	ug/L		12/18/24 08:27	12/20/24 15:26	1
Copper	<0.50		2.0	0.50	ug/L		12/18/24 08:27	12/20/24 15:26	1
Iron	<47		100	47	ug/L		12/18/24 08:27	12/20/24 15:26	1
Lead	<0.19		0.50	0.19	ug/L		12/18/24 08:27	12/20/24 15:26	1
Lithium	<2.5		10	2.5	ug/L		12/18/24 08:27	12/20/24 15:26	1
Magnesium	<49		200	49	ug/L		12/18/24 08:27	12/20/24 15:26	1
Manganese	<0.79		2.5	0.79	ug/L		12/18/24 08:27	12/20/24 15:26	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/18/24 08:27	12/20/24 15:26	1
Nickel	<0.63		2.0	0.63	ug/L		12/18/24 08:27	12/20/24 15:26	1
Potassium	<110		500	110	ug/L		12/18/24 08:27	12/20/24 15:26	1
Selenium	<0.98		2.5	0.98	ug/L		12/18/24 08:27	12/20/24 15:26	1
Silver	<0.12		0.50	0.12	ug/L		12/18/24 08:27	12/20/24 15:26	1
Sodium	**140**	**J**	200	77	ug/L		12/18/24 08:27	12/20/24 15:26	1
Strontium	<0.64		4.0	0.64	ug/L		12/18/24 08:27	12/20/24 15:26	1
Thallium	<0.57		2.0	0.57	ug/L		12/18/24 08:27	12/20/24 15:26	1
Tin	<1.3		5.0	1.3	ug/L		12/18/24 08:27	12/20/24 15:26	1
Vanadium	<2.2		5.0	2.2	ug/L		12/18/24 08:27	12/20/24 15:26	1
Zinc	<6.9		20	6.9	ug/L		12/18/24 08:27	12/20/24 15:26	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	<0.46		0.91	0.46	mg/L		12/18/24 08:27	12/23/24 08:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.45		1.0	0.45	mg/L			12/07/24 10:15	1
Nitrate as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/07/24 10:15	1
Chloride (EPA 300.0)	<0.42		1.0	0.42	mg/L			12/07/24 10:15	1
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/07/24 10:15	1
Fluoride (EPA 300.0)	<0.43		1.0	0.43	mg/L			12/07/24 10:15	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: FB-01-SW_20241204
Date Collected: 12/04/24 17:20
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-11
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/07/24 10:15	1
Sulfate (EPA 300.0)	<0.47		1.0	0.47	mg/L			12/07/24 10:15	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/09/24 10:52	12/09/24 13:06	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/20/24 11:36	12/20/24 16:07	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 11:00	1
Alkalinity (SM 2320B)	<3.7		5.0	3.7	mg/L			12/13/24 16:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/13/24 16:29	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/13/24 16:29	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/22/24 15:01	1
Total Dissolved Solids (SM 2540C)	<4.3		10	4.3	mg/L			12/10/24 23:25	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			12/11/24 15:13	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			12/10/24 00:34	1
Total Organic Carbon (SM 5310C)	<0.47		1.0	0.47	mg/L			12/09/24 19:54	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: FB-01-SW_20241204_FBLL

Lab Sample ID: 500-261092-12

Date Collected: 12/04/24 17:20
Matrix: Water
Date Received: 12/06/24 09:35

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/18/24 18:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: PNC-01_20241205

Date Collected: 12/05/24 11:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-13

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 20:22	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 20:33	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.6**		0.50	0.20	ng/L			12/18/24 18:38	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.3**		0.50	0.20	ng/L			12/23/24 14:56	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.046**	**J**	0.050	0.0098	ug/L		12/27/24 17:34	12/31/24 12:47	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.042**	**J ^2**	0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 14:21	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**220**		100	25	ug/L		12/17/24 08:19	12/18/24 16:31	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:31	1
Arsenic	**0.36**	**J**	1.0	0.23	ug/L		12/17/24 08:19	12/18/24 16:31	1
Barium	**16**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 16:31	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 16:31	1
Boron	**15**	**J B**	50	13	ug/L		12/17/24 08:19	12/18/24 16:31	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 16:31	1
Calcium	**12000**		200	44	ug/L		12/17/24 08:19	12/18/24 16:31	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 16:31	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 16:31	1
Copper	**7.1**		2.0	0.50	ug/L		12/17/24 08:19	12/18/24 16:31	1
Iron	**1300**		100	47	ug/L		12/17/24 08:19	12/18/24 16:31	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 16:31	1
Lithium	<2.5		10	2.5	ug/L		12/17/24 08:19	12/18/24 16:31	1
Magnesium	**3100**		200	49	ug/L		12/17/24 08:19	12/18/24 16:31	1
Manganese	**94**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 16:31	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 16:31	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 16:31	1
Potassium	**1600**		500	110	ug/L		12/17/24 08:19	12/18/24 16:31	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 16:31	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 16:31	1
Sodium	**1300**		200	77	ug/L		12/17/24 08:19	12/18/24 16:31	1
Strontium	**30**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 16:31	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 16:31	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:31	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 16:31	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 16:31	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: PNC-01_20241205

Date Collected: 12/05/24 11:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-13

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**45**	**J**	100	25	ug/L		12/17/24 08:19	12/18/24 17:01	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 17:01	1
Arsenic	**0.30**	**J**	1.0	0.23	ug/L		12/17/24 08:19	12/18/24 17:01	1
Barium	**14**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 17:01	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 17:01	1
Boron	<13		50	13	ug/L		12/17/24 08:19	12/18/24 17:01	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 17:01	1
Calcium	**12000**		200	44	ug/L		12/17/24 08:19	12/18/24 17:01	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 17:01	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 17:01	1
Copper	**6.8**		2.0	0.50	ug/L		12/17/24 08:19	12/18/24 17:01	1
Iron	**770**		100	47	ug/L		12/17/24 08:19	12/18/24 17:01	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 17:01	1
Lithium	<2.5		10	2.5	ug/L		12/17/24 08:19	12/18/24 17:01	1
Magnesium	**3000**		200	49	ug/L		12/17/24 08:19	12/18/24 17:01	1
Manganese	**85**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 17:01	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 17:01	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 17:01	1
Potassium	**1500**		500	110	ug/L		12/17/24 08:19	12/18/24 17:01	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 17:01	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 17:01	1
Sodium	**1300**		200	77	ug/L		12/17/24 08:19	12/18/24 17:01	1
Strontium	**30**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 17:01	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 17:01	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 17:01	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 17:01	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 17:01	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**43**		0.91	0.46	mg/L		12/17/24 08:19	12/19/24 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.45		1.0	0.45	mg/L			12/07/24 13:38	1
Nitrate as N (EPA 300.0)	**0.48**	**J H**	1.0	0.37	mg/L			12/07/24 13:38	1
Chloride (EPA 300.0)	**1.0**		1.0	0.42	mg/L			12/07/24 13:38	1
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/07/24 13:38	1
Fluoride (EPA 300.0)	<0.43		1.0	0.43	mg/L			12/07/24 13:38	1
Nitrate Nitrite as N (EPA 300.0)	**0.48**	**J H**	1.0	0.37	mg/L			12/07/24 13:38	1
Sulfate (EPA 300.0)	**0.57**	**J**	1.0	0.47	mg/L			12/07/24 13:38	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/11/24 13:45	12/11/24 16:44	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/20/24 13:32	12/20/24 16:08	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/16/24 09:29	12/19/24 13:31	1
Alkalinity (SM 2320B)	**47**	**B**	5.0	3.7	mg/L			12/16/24 15:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**47**	**B**	5.0	3.7	mg/L			12/16/24 15:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/16/24 15:49	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/22/24 15:01	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: PNC-01_20241205
Date Collected: 12/05/24 11:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-13
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	60		10	4.3	mg/L			12/10/24 23:27	1
Total Suspended Solids (SM 2540D)	39		8.3	3.2	mg/L			12/12/24 13:01	1
Sulfide (SM 4500 S2 F)	0.26	J	1.0	0.23	mg/L			12/12/24 02:49	1
Total Organic Carbon (SM 5310C)	9.0		1.0	0.47	mg/L			12/09/24 20:22	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	9.2		1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: PNC-01_20241205_FBLL

Date Collected: 12/05/24 11:40
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-14

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30	J	0.50	0.20	ng/L			12/18/24 19:21	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: SMW-3_20241204

Date Collected: 12/04/24 11:00
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-15

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 20:43	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 20:53	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.40**	**J**	0.50	0.20	ng/L			12/18/24 19:25	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.42**	**J**	0.50	0.20	ng/L			12/18/24 19:30	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.056**		0.050	0.0098	ug/L		12/27/24 17:34	12/31/24 12:50	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.074**		0.050	0.0098	ug/L		12/27/24 17:34	12/31/24 12:54	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**34**	**J**	100	25	ug/L		12/17/24 08:19	12/18/24 16:33	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:33	1
Arsenic	**1.0**		1.0	0.23	ug/L		12/17/24 08:19	12/18/24 16:33	1
Barium	**35**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 16:33	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 16:33	1
Boron	**270**	**B**	50	13	ug/L		12/17/24 08:19	12/18/24 16:33	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 16:33	1
Calcium	**11000**		200	44	ug/L		12/17/24 08:19	12/18/24 16:33	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 16:33	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 16:33	1
Copper	<0.50		2.0	0.50	ug/L		12/17/24 08:19	12/18/24 16:33	1
Iron	**59**	**J**	100	47	ug/L		12/17/24 08:19	12/18/24 16:33	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 16:33	1
Lithium	<2.5		10	2.5	ug/L		12/17/24 08:19	12/18/24 16:33	1
Magnesium	**1600**		200	49	ug/L		12/17/24 08:19	12/18/24 16:33	1
Manganese	**15**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 16:33	1
Molybdenum	**19**		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 16:33	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 16:33	1
Potassium	**900**		500	110	ug/L		12/17/24 08:19	12/18/24 16:33	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 16:33	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 16:33	1
Sodium	**43000**		200	77	ug/L		12/17/24 08:19	12/18/24 16:33	1
Strontium	**110**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 16:33	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 16:33	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:33	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 16:33	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 16:33	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: SMW-3_20241204

Date Collected: 12/04/24 11:00
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-15

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/17/24 08:19	12/18/24 17:04	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 17:04	1
Arsenic	**1.1**		1.0	0.23	ug/L		12/17/24 08:19	12/18/24 17:04	1
Barium	**33**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 17:04	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 17:04	1
Boron	**270**	**B**	50	13	ug/L		12/17/24 08:19	12/18/24 17:04	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 17:04	1
Calcium	**11000**		200	44	ug/L		12/17/24 08:19	12/18/24 17:04	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 17:04	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 17:04	1
Copper	<0.50		2.0	0.50	ug/L		12/17/24 08:19	12/18/24 17:04	1
Iron	<47		100	47	ug/L		12/17/24 08:19	12/18/24 17:04	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 17:04	1
Lithium	<2.5		10	2.5	ug/L		12/17/24 08:19	12/18/24 17:04	1
Magnesium	**1600**		200	49	ug/L		12/17/24 08:19	12/18/24 17:04	1
Manganese	**15**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 17:04	1
Molybdenum	**18**		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 17:04	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 17:04	1
Potassium	**890**		500	110	ug/L		12/17/24 08:19	12/18/24 17:04	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 17:04	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 17:04	1
Sodium	**42000**		200	77	ug/L		12/17/24 08:19	12/18/24 17:04	1
Strontium	**110**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 17:04	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 17:04	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 17:04	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 17:04	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 17:04	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**34**		0.91	0.46	mg/L		12/17/24 08:19	12/19/24 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.51**	**J**	1.0	0.45	mg/L			12/07/24 10:31	1
Nitrate as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/07/24 10:31	1
Chloride (EPA 300.0)	**39**		1.0	0.42	mg/L			12/07/24 10:31	1
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/07/24 10:31	1
Fluoride (EPA 300.0)	**0.54**	**J**	1.0	0.43	mg/L			12/07/24 10:31	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/07/24 10:31	1
Sulfate (EPA 300.0)	<0.47		1.0	0.47	mg/L			12/07/24 10:31	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/09/24 10:52	12/09/24 13:08	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/20/24 13:32	12/20/24 16:09	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 11:00	1
Alkalinity (SM 2320B)	**75**	**B**	5.0	3.7	mg/L			12/09/24 19:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**75**	**B**	5.0	3.7	mg/L			12/09/24 19:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 19:15	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/22/24 15:01	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: SMW-3_20241204
Date Collected: 12/04/24 11:00
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-15
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**140**		10	4.3	mg/L			12/10/24 23:30	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			12/11/24 15:18	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			12/10/24 00:37	1
Total Organic Carbon (SM 5310C)	**2.5**		1.0	0.47	mg/L			12/09/24 20:50	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**3.0**		1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: SMW-3_20241204_FBLL

Lab Sample ID: 500-261092-16

Date Collected: 12/04/24 11:00
Matrix: Water
Date Received: 12/06/24 09:35

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/18/24 19:34	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: SMW-3SB_20241204

Date Collected: 12/04/24 17:00
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-17

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 21:03	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 21:13	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**3.9**		0.50	0.20	ng/L			12/18/24 19:38	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.71**		0.50	0.20	ng/L			12/18/24 19:42	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**2.1**	**^2**	0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 14:31	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**1.0**		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 15:23	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		100	25	ug/L		12/17/24 08:19	12/18/24 16:36	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:36	1
Arsenic	**2.7**		1.0	0.23	ug/L		12/17/24 08:19	12/18/24 16:36	1
Barium	**74**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 16:36	1
Beryllium	**0.53**	**J**	1.0	0.53	ug/L		12/17/24 08:19	12/18/24 16:36	1
Boron	**4700**	**B**	50	13	ug/L		12/17/24 08:19	12/18/24 16:36	1
Cadmium	**0.17**	**J**	0.50	0.17	ug/L		12/17/24 08:19	12/18/24 16:36	1
Calcium	**8100**		200	44	ug/L		12/17/24 08:19	12/18/24 16:36	1
Chromium	**17**		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 16:36	1
Cobalt	**6.9**		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 16:36	1
Copper	**55**		2.0	0.50	ug/L		12/17/24 08:19	12/18/24 16:36	1
Iron	**10000**		100	47	ug/L		12/17/24 08:19	12/18/24 16:36	1
Lead	**4.4**		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 16:36	1
Lithium	**26**		10	2.5	ug/L		12/17/24 08:19	12/18/24 16:36	1
Magnesium	**5700**		200	49	ug/L		12/17/24 08:19	12/18/24 16:36	1
Manganese	**200**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 16:36	1
Molybdenum	**14**		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 16:36	1
Nickel	**15**		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 16:36	1
Potassium	**4300**		500	110	ug/L		12/17/24 08:19	12/18/24 16:36	1
Selenium	**1.4**	**J**	2.5	0.98	ug/L		12/17/24 08:19	12/18/24 16:36	1
Silver	**0.19**	**J**	0.50	0.12	ug/L		12/17/24 08:19	12/18/24 16:36	1
Sodium	**110000**		200	77	ug/L		12/17/24 08:19	12/18/24 16:36	1
Strontium	**32**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 16:36	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 16:36	1
Tin	**3.2**	**J**	5.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:36	1
Vanadium	**39**		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 16:36	1
Zinc	**31**		20	6.9	ug/L		12/17/24 08:19	12/18/24 16:36	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: SMW-3SB_20241204

Date Collected: 12/04/24 17:00
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-17

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**25**	**J**	100	25	ug/L		12/17/24 08:19	12/18/24 17:06	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 17:06	1
Arsenic	**0.51**	**J**	1.0	0.23	ug/L		12/17/24 08:19	12/18/24 17:06	1
Barium	**8.6**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 17:06	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 17:06	1
Boron	**4700**	**B**	50	13	ug/L		12/17/24 08:19	12/18/24 17:06	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 17:06	1
Calcium	**4500**		200	44	ug/L		12/17/24 08:19	12/18/24 17:06	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 17:06	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 17:06	1
Copper	**0.72**	**J**	2.0	0.50	ug/L		12/17/24 08:19	12/18/24 17:06	1
Iron	<47		100	47	ug/L		12/17/24 08:19	12/18/24 17:06	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 17:06	1
Lithium	**17**		10	2.5	ug/L		12/17/24 08:19	12/18/24 17:06	1
Magnesium	**820**		200	49	ug/L		12/17/24 08:19	12/18/24 17:06	1
Manganese	**18**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 17:06	1
Molybdenum	**13**		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 17:06	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 17:06	1
Potassium	**1600**		500	110	ug/L		12/17/24 08:19	12/18/24 17:06	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 17:06	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 17:06	1
Sodium	**110000**		200	77	ug/L		12/17/24 08:19	12/18/24 17:06	1
Strontium	**18**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 17:06	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 17:06	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 17:06	1
Vanadium	**6.0**		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 17:06	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 17:06	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**44**		0.91	0.46	mg/L		12/17/24 08:19	12/19/24 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.89**	**J**	1.0	0.45	mg/L			12/07/24 10:46	1
Nitrate as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/07/24 10:46	1
Chloride (EPA 300.0)	**88**		10	4.2	mg/L			12/27/24 14:37	10
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/07/24 10:46	1
Fluoride (EPA 300.0)	**1.5**		1.0	0.43	mg/L			12/07/24 10:46	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H	1.0	0.37	mg/L			12/07/24 10:46	1
Sulfate (EPA 300.0)	**8.0**		1.0	0.47	mg/L			12/07/24 10:46	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/09/24 10:52	12/09/24 13:10	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/20/24 13:32	12/20/24 16:09	1
Phosphorus as P (EPA 365.1)	**0.27**		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 11:00	1
Alkalinity (SM 2320B)	**110**	**B**	5.0	3.7	mg/L			12/09/24 19:26	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**110**	**B**	5.0	3.7	mg/L			12/09/24 19:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 19:26	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/22/24 15:01	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: SMW-3SB_20241204
Date Collected: 12/04/24 17:00
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-17
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	330		10	4.3	mg/L			12/11/24 00:45	1
Total Suspended Solids (SM 2540D)	160		25	9.7	mg/L			12/11/24 15:22	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			12/10/24 00:41	1
Total Organic Carbon (SM 5310C)	2.5		1.0	0.47	mg/L			12/09/24 21:18	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	2.0		1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: SMW-3SB_20241204_FBLL
Date Collected: 12/04/24 17:00
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-18
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22	J	0.50	0.20	ng/L			12/18/24 19:54	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-44_20241204

Date Collected: 12/04/24 10:20
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-19

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 21:24	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/20/24 11:36	12/20/24 21:38	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.24**	**J**	0.50	0.20	ng/L			12/18/24 19:59	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.28**	**J**	0.50	0.20	ng/L			12/18/24 20:03	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**11**		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 15:26	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**9.7**		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 15:30	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**53**	**J**	100	25	ug/L		12/17/24 08:19	12/18/24 16:38	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:38	1
Arsenic	**0.32**	**J**	1.0	0.23	ug/L		12/17/24 08:19	12/18/24 16:38	1
Barium	**260**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 16:38	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 16:38	1
Boron	**250**	**B**	50	13	ug/L		12/17/24 08:19	12/18/24 16:38	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 16:38	1
Calcium	**38000**		200	44	ug/L		12/17/24 08:19	12/18/24 16:38	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 16:38	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 16:38	1
Copper	**0.52**	**J**	2.0	0.50	ug/L		12/17/24 08:19	12/18/24 16:38	1
Iron	**96**	**J**	100	47	ug/L		12/17/24 08:19	12/18/24 16:38	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 16:38	1
Lithium	**31**		10	2.5	ug/L		12/17/24 08:19	12/18/24 16:38	1
Magnesium	**8400**		200	49	ug/L		12/17/24 08:19	12/18/24 16:38	1
Manganese	**180**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 16:38	1
Molybdenum	**55**		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 16:38	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 16:38	1
Potassium	**890**		500	110	ug/L		12/17/24 08:19	12/18/24 16:38	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 16:38	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 16:38	1
Sodium	**98000**		200	77	ug/L		12/17/24 08:19	12/18/24 16:38	1
Strontium	**750**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 16:38	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 16:38	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:38	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 16:38	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 16:38	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-44_20241204

Date Collected: 12/04/24 10:20
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-19

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/17/24 08:19	12/18/24 17:09	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 17:09	1
Arsenic	**0.29**	**J**	1.0	0.23	ug/L		12/17/24 08:19	12/18/24 17:09	1
Barium	**250**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 17:09	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 17:09	1
Boron	**260**	**B**	50	13	ug/L		12/17/24 08:19	12/18/24 17:09	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 17:09	1
Calcium	**35000**		200	44	ug/L		12/17/24 08:19	12/18/24 17:09	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 17:09	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 17:09	1
Copper	<0.50		2.0	0.50	ug/L		12/17/24 08:19	12/18/24 17:09	1
Iron	**47**	**J**	100	47	ug/L		12/17/24 08:19	12/18/24 17:09	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 17:09	1
Lithium	**32**		10	2.5	ug/L		12/17/24 08:19	12/18/24 17:09	1
Magnesium	**7600**		200	49	ug/L		12/17/24 08:19	12/18/24 17:09	1
Manganese	**160**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 17:09	1
Molybdenum	**67**		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 17:09	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 17:09	1
Potassium	**830**		500	110	ug/L		12/17/24 08:19	12/18/24 17:09	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 17:09	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 17:09	1
Sodium	**110000**		200	77	ug/L		12/17/24 08:19	12/18/24 17:09	1
Strontium	**700**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 17:09	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 17:09	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 17:09	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 17:09	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 17:09	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**130**		0.91	0.46	mg/L		12/17/24 08:19	12/19/24 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	**0.62**	**J**	1.0	0.45	mg/L			12/07/24 11:02	1
Nitrate as N (EPA 300.0)	<0.37	H3	1.0	0.37	mg/L			12/07/24 11:02	1
Chloride (EPA 300.0)	**59**		10	4.2	mg/L			12/27/24 14:53	10
Nitrite as N (EPA 300.0)	<0.25	H3	1.0	0.25	mg/L			12/07/24 11:02	1
Fluoride (EPA 300.0)	**0.87**	**J**	1.0	0.43	mg/L			12/07/24 11:02	1
Nitrate Nitrite as N (EPA 300.0)	<0.37	H3	1.0	0.37	mg/L			12/07/24 11:02	1
Sulfate (EPA 300.0)	**23**		1.0	0.47	mg/L			12/07/24 11:02	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/09/24 10:52	12/09/24 13:11	1
Ammonia (EPA 350.1)	<0.10		0.20	0.10	mg/L		12/20/24 13:32	12/20/24 16:10	1
Phosphorus as P (EPA 365.1)	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 11:02	1
Alkalinity (SM 2320B)	**220**	**B**	5.0	3.7	mg/L			12/09/24 19:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**220**	**B**	5.0	3.7	mg/L			12/09/24 19:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/09/24 19:34	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/22/24 15:01	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-44_20241204
Date Collected: 12/04/24 10:20
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-19
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**380**		10	4.3	mg/L			12/11/24 00:52	1
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			12/11/24 15:27	1
Sulfide (SM 4500 S2 F)	<0.23		1.0	0.23	mg/L			12/10/24 00:44	1
Total Organic Carbon (SM 5310C)	**0.52**	**J**	1.0	0.47	mg/L			12/09/24 21:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	**0.52**	**J**	1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-44_20241204_FBLL

Date Collected: 12/04/24 10:20
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-20

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/18/24 20:07	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: ARC-02_20241204

Date Collected: 12/04/24 15:30
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-21

Matrix: Water

Method: EPA 1630 - Methyl Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	0.88		0.050	0.022	ng/L		12/20/24 11:36	12/20/24 21:48	1

Method: EPA 1630 - Methyl Mercury - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	0.15		0.050	0.022	ng/L		12/20/24 11:36	12/20/24 21:58	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	55		0.50	0.20	ng/L			12/18/24 20:11	1

Method: EPA 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.8		0.50	0.20	ng/L			12/18/24 20:15	1

Method: EPA 1638 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	3.8		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 15:33	1

Method: EPA 1638 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.10		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 15:37	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	29000		100	25	ug/L		12/17/24 08:19	12/18/24 16:41	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:41	1
Arsenic	4.8		1.0	0.23	ug/L		12/17/24 08:19	12/18/24 16:41	1
Barium	260		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 16:41	1
Beryllium	1.1		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 16:41	1
Boron	40	J B	50	13	ug/L		12/17/24 08:19	12/18/24 16:41	1
Cadmium	1.4		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 16:41	1
Calcium	24000		200	44	ug/L		12/17/24 08:19	12/18/24 16:41	1
Chromium	34		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 16:41	1
Cobalt	18		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 16:41	1
Copper	140		2.0	0.50	ug/L		12/17/24 08:19	12/18/24 16:41	1
Iron	30000		100	47	ug/L		12/17/24 08:19	12/18/24 16:41	1
Lead	16		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 16:41	1
Lithium	30		10	2.5	ug/L		12/17/24 08:19	12/18/24 16:41	1
Magnesium	11000		200	49	ug/L		12/17/24 08:19	12/18/24 16:41	1
Manganese	1900		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 16:41	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 16:41	1
Nickel	31		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 16:41	1
Potassium	6300		500	110	ug/L		12/17/24 08:19	12/18/24 16:41	1
Selenium	1.7	J	2.5	0.98	ug/L		12/17/24 08:19	12/18/24 16:41	1
Silver	0.34	J	0.50	0.12	ug/L		12/17/24 08:19	12/18/24 16:41	1
Sodium	3200		200	77	ug/L		12/17/24 08:19	12/18/24 16:41	1
Strontium	110		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 16:41	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 16:41	1
Tin	1.8	J	5.0	1.3	ug/L		12/17/24 08:19	12/18/24 16:41	1
Vanadium	66		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 16:41	1
Zinc	150		20	6.9	ug/L		12/17/24 08:19	12/18/24 16:41	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: ARC-02_20241204

Date Collected: 12/04/24 15:30
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-21

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**49**	**J**	100	25	ug/L		12/17/24 08:19	12/18/24 17:11	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 17:11	1
Arsenic	**0.40**	**J**	1.0	0.23	ug/L		12/17/24 08:19	12/18/24 17:11	1
Barium	**26**		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 17:11	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 17:11	1
Boron	**27**	**J B**	50	13	ug/L		12/17/24 08:19	12/18/24 17:11	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 17:11	1
Calcium	**16000**		200	44	ug/L		12/17/24 08:19	12/18/24 17:11	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 17:11	1
Cobalt	**0.60**	**J**	1.0	0.40	ug/L		12/17/24 08:19	12/18/24 17:11	1
Copper	**8.4**		2.0	0.50	ug/L		12/17/24 08:19	12/18/24 17:11	1
Iron	**580**		100	47	ug/L		12/17/24 08:19	12/18/24 17:11	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 17:11	1
Lithium	<2.5		10	2.5	ug/L		12/17/24 08:19	12/18/24 17:11	1
Magnesium	**3700**		200	49	ug/L		12/17/24 08:19	12/18/24 17:11	1
Manganese	**360**		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 17:11	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 17:11	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 17:11	1
Potassium	**1600**		500	110	ug/L		12/17/24 08:19	12/18/24 17:11	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 17:11	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 17:11	1
Sodium	**2200**		200	77	ug/L		12/17/24 08:19	12/18/24 17:11	1
Strontium	**63**		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 17:11	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 17:11	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 17:11	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 17:11	1
Zinc	**7.4**	**J**	20	6.9	ug/L		12/17/24 08:19	12/18/24 17:11	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**110**		0.91	0.46	mg/L		12/17/24 08:19	12/19/24 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide (EPA 300.0)	<0.45		1.0	0.45	mg/L			12/07/24 11:18	1
Nitrate as N (EPA 300.0)	**0.49**	**J H**	1.0	0.37	mg/L			12/07/24 11:18	1
Chloride (EPA 300.0)	**3.5**		1.0	0.42	mg/L			12/07/24 11:18	1
Nitrite as N (EPA 300.0)	<0.25	H	1.0	0.25	mg/L			12/07/24 11:18	1
Fluoride (EPA 300.0)	<0.43		1.0	0.43	mg/L			12/07/24 11:18	1
Nitrate Nitrite as N (EPA 300.0)	**0.49**	**J H**	1.0	0.37	mg/L			12/07/24 11:18	1
Sulfate (EPA 300.0)	**1.4**		1.0	0.47	mg/L			12/07/24 11:18	1
Cyanide, Total (EPA 335.4)	<0.0036		0.0050	0.0036	mg/L		12/09/24 10:52	12/09/24 13:17	1
Ammonia (EPA 350.1)	**0.15**	**J**	0.20	0.10	mg/L		12/20/24 13:32	12/20/24 16:11	1
Phosphorus as P (EPA 365.1)	**0.27**		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 11:02	1
Alkalinity (SM 2320B)	**52**	**B**	5.0	3.7	mg/L			12/13/24 16:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**52**	**B**	5.0	3.7	mg/L			12/13/24 16:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<3.7		5.0	3.7	mg/L			12/13/24 16:32	1
Salinity (SM 2520B)	<0.33		0.33	0.33	psu			12/22/24 15:01	1

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: ARC-02_20241204
Date Collected: 12/04/24 15:30
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-21
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	86		10	4.3	mg/L			12/11/24 00:58	1
Total Suspended Solids (SM 2540D)	2300		250	97	mg/L			12/11/24 15:31	1
Sulfide (SM 4500 S2 F)	1.0	J B	2.5	0.58	mg/L			12/11/24 15:39	1
Total Organic Carbon (SM 5310C)	16		1.0	0.47	mg/L			12/09/24 23:10	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310C)	11		1.0	0.47	mg/L			12/11/24 07:30	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: ARC-02_20241204_FBLL

Date Collected: 12/04/24 15:30
Date Received: 12/06/24 09:35

Lab Sample ID: 500-261092-22

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27	J	0.50	0.20	ng/L			12/18/24 20:19	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Qualifiers

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 3869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Dissolved	Water	1630	
500-261092-1	MW-1AR_20241205	Total/NA	Water	1630	
500-261092-2	MW-1BR_20241205	Dissolved	Water	1630	
500-261092-2	MW-1BR_20241205	Total/NA	Water	1630	
MB 350-3869/1-A	Method Blank	Total/NA	Water	1630	
MB 350-3869/2-A	Method Blank	Total/NA	Water	1630	
MB 350-3869/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-3869/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-3869/5-A	Lab Control Sample Dup	Total/NA	Water	1630	
500-261092-2 MS	MW-1BR_20241205	Total/NA	Water	1630	
500-261092-2 MSD	MW-1BR_20241205	Total/NA	Water	1630	

Analysis Batch: 3916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Dissolved	Water	1630	3869
500-261092-1	MW-1AR_20241205	Total/NA	Water	1630	3869
500-261092-2	MW-1BR_20241205	Dissolved	Water	1630	3869
500-261092-2	MW-1BR_20241205	Total/NA	Water	1630	3869
MB 350-3869/1-A	Method Blank	Total/NA	Water	1630	3869
MB 350-3869/2-A	Method Blank	Total/NA	Water	1630	3869
MB 350-3869/3-A	Method Blank	Total/NA	Water	1630	3869
LCS 350-3869/4-A	Lab Control Sample	Total/NA	Water	1630	3869
LCSD 350-3869/5-A	Lab Control Sample Dup	Total/NA	Water	1630	3869
500-261092-2 MS	MW-1BR_20241205	Total/NA	Water	1630	3869
500-261092-2 MSD	MW-1BR_20241205	Total/NA	Water	1630	3869

Prep Batch: 3963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-5	ARC-01_20241205	Dissolved	Water	1630	
500-261092-5	ARC-01_20241205	Total/NA	Water	1630	
500-261092-7	DKC-01_20241205	Dissolved	Water	1630	
500-261092-7	DKC-01_20241205	Total/NA	Water	1630	
500-261092-9	MW-43_20241204	Dissolved	Water	1630	
500-261092-9	MW-43_20241204	Total/NA	Water	1630	
500-261092-11	FB-01-SW_20241204	Total/NA	Water	1630	
500-261092-13	PNC-01_20241205	Dissolved	Water	1630	
500-261092-13	PNC-01_20241205	Total/NA	Water	1630	
500-261092-15	SMW-3_20241204	Dissolved	Water	1630	
500-261092-15	SMW-3_20241204	Total/NA	Water	1630	
500-261092-17	SMW-3SB_20241204	Dissolved	Water	1630	
500-261092-17	SMW-3SB_20241204	Total/NA	Water	1630	
500-261092-19	MW-44_20241204	Total/NA	Water	1630	
MB 350-3963/1-A	Method Blank	Total/NA	Water	1630	
MB 350-3963/2-A	Method Blank	Total/NA	Water	1630	
MB 350-3963/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-3963/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-3963/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Analysis Batch: 3995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Dissolved	Water	1631E	

Metals (Continued)

Analysis Batch: 3995 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	1631E	
500-261092-2	MW-1BR_20241205	Dissolved	Water	1631E	
500-261092-2	MW-1BR_20241205	Total/NA	Water	1631E	
500-261092-3	MW-1AR_20241205_FBLL	Total/NA	Water	1631E	
500-261092-4	MW-1BR_20241205_FBLL	Total/NA	Water	1631E	
500-261092-5	ARC-01_20241205	Dissolved	Water	1631E	
500-261092-5	ARC-01_20241205	Total/NA	Water	1631E	
500-261092-6	ARC-01_20241205_FBLL	Total/NA	Water	1631E	
500-261092-7	DKC-01_20241205	Dissolved	Water	1631E	
500-261092-7	DKC-01_20241205	Total/NA	Water	1631E	
500-261092-8	DKC-01_20241205_FBLL	Total/NA	Water	1631E	
500-261092-9	MW-43_20241204	Dissolved	Water	1631E	
500-261092-9	MW-43_20241204	Total/NA	Water	1631E	
500-261092-10	MW-43_20241204_FBLL	Total/NA	Water	1631E	
500-261092-11	FB-01-SW_20241204	Total/NA	Water	1631E	
500-261092-12	FB-01-SW_20241204_FBLL	Total/NA	Water	1631E	
500-261092-13	PNC-01_20241205	Total/NA	Water	1631E	
500-261092-14	PNC-01_20241205_FBLL	Total/NA	Water	1631E	
500-261092-15	SMW-3_20241204	Dissolved	Water	1631E	
500-261092-15	SMW-3_20241204	Total/NA	Water	1631E	
500-261092-16	SMW-3_20241204_FBLL	Total/NA	Water	1631E	
500-261092-17	SMW-3SB_20241204	Dissolved	Water	1631E	
500-261092-17	SMW-3SB_20241204	Total/NA	Water	1631E	
500-261092-18	SMW-3SB_20241204_FBLL	Total/NA	Water	1631E	
500-261092-19	MW-44_20241204	Dissolved	Water	1631E	
500-261092-19	MW-44_20241204	Total/NA	Water	1631E	
500-261092-20	MW-44_20241204_FBLL	Total/NA	Water	1631E	
500-261092-21	ARC-02_20241204	Dissolved	Water	1631E	
500-261092-21	ARC-02_20241204	Total/NA	Water	1631E	
500-261092-22	ARC-02_20241204_FBLL	Total/NA	Water	1631E	
MB 350-3995/17	Method Blank	Total/NA	Water	1631E	
MB 350-3995/18	Method Blank	Total/NA	Water	1631E	
MB 350-3995/19	Method Blank	Total/NA	Water	1631E	
MB 350-3995/24	Method Blank	Total/NA	Water	1631E	
MB 350-3995/25	Method Blank	Total/NA	Water	1631E	
MB 350-3995/26	Method Blank	Total/NA	Water	1631E	
LCS 350-3995/20	Lab Control Sample	Total/NA	Water	1631E	
LCS 350-3995/27	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-3995/23	Lab Control Sample Dup	Total/NA	Water	1631E	
LCSD 350-3995/28	Lab Control Sample Dup	Total/NA	Water	1631E	

Prep Batch: 4026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-19	MW-44_20241204	Dissolved	Water	1630	
500-261092-21	ARC-02_20241204	Dissolved	Water	1630	
500-261092-21	ARC-02_20241204	Total/NA	Water	1630	
MB 350-4026/1-A	Method Blank	Total/NA	Water	1630	
MB 350-4026/2-A	Method Blank	Total/NA	Water	1630	
MB 350-4026/3-A	Method Blank	Total/NA	Water	1630	
LCS 350-4026/4-A	Lab Control Sample	Total/NA	Water	1630	
LCSD 350-4026/5-A	Lab Control Sample Dup	Total/NA	Water	1630	

Metals

Analysis Batch: 4029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-5	ARC-01_20241205	Dissolved	Water	1630	3963
500-261092-5	ARC-01_20241205	Total/NA	Water	1630	3963
500-261092-7	DKC-01_20241205	Dissolved	Water	1630	3963
500-261092-7	DKC-01_20241205	Total/NA	Water	1630	3963
500-261092-9	MW-43_20241204	Dissolved	Water	1630	3963
500-261092-9	MW-43_20241204	Total/NA	Water	1630	3963
500-261092-11	FB-01-SW_20241204	Total/NA	Water	1630	3963
500-261092-13	PNC-01_20241205	Dissolved	Water	1630	3963
500-261092-13	PNC-01_20241205	Total/NA	Water	1630	3963
500-261092-15	SMW-3_20241204	Dissolved	Water	1630	3963
500-261092-15	SMW-3_20241204	Total/NA	Water	1630	3963
500-261092-17	SMW-3SB_20241204	Dissolved	Water	1630	3963
500-261092-17	SMW-3SB_20241204	Total/NA	Water	1630	3963
500-261092-19	MW-44_20241204	Total/NA	Water	1630	3963
MB 350-3963/1-A	Method Blank	Total/NA	Water	1630	3963
MB 350-3963/2-A	Method Blank	Total/NA	Water	1630	3963
MB 350-3963/3-A	Method Blank	Total/NA	Water	1630	3963
LCS 350-3963/4-A	Lab Control Sample	Total/NA	Water	1630	3963
LCSD 350-3963/5-A	Lab Control Sample Dup	Total/NA	Water	1630	3963

Analysis Batch: 4067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-19	MW-44_20241204	Dissolved	Water	1630	4026
500-261092-21	ARC-02_20241204	Dissolved	Water	1630	4026
500-261092-21	ARC-02_20241204	Total/NA	Water	1630	4026
MB 350-4026/1-A	Method Blank	Total/NA	Water	1630	4026
MB 350-4026/2-A	Method Blank	Total/NA	Water	1630	4026
MB 350-4026/3-A	Method Blank	Total/NA	Water	1630	4026
LCS 350-4026/4-A	Lab Control Sample	Total/NA	Water	1630	4026
LCSD 350-4026/5-A	Lab Control Sample Dup	Total/NA	Water	1630	4026

Analysis Batch: 4086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-13	PNC-01_20241205	Dissolved	Water	1631E	
MB 350-4086/13	Method Blank	Total/NA	Water	1631E	
MB 350-4086/14	Method Blank	Total/NA	Water	1631E	
MB 350-4086/15	Method Blank	Total/NA	Water	1631E	
LCS 350-4086/24	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-4086/25	Lab Control Sample Dup	Total/NA	Water	1631E	

Prep Batch: 4157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Dissolved	Water	1638	
500-261092-1	MW-1AR_20241205	Total Recoverable	Water	1638	
500-261092-2	MW-1BR_20241205	Dissolved	Water	1638	
500-261092-2	MW-1BR_20241205	Total Recoverable	Water	1638	
500-261092-5	ARC-01_20241205	Dissolved	Water	1638	
500-261092-5	ARC-01_20241205	Total Recoverable	Water	1638	
500-261092-7	DKC-01_20241205	Dissolved	Water	1638	
500-261092-7	DKC-01_20241205	Total Recoverable	Water	1638	
500-261092-9	MW-43_20241204	Dissolved	Water	1638	

Metals (Continued)

Prep Batch: 4157 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-9	MW-43_20241204	Total Recoverable	Water	1638	
500-261092-11	FB-01-SW_20241204	Total Recoverable	Water	1638	
500-261092-13	PNC-01_20241205	Dissolved	Water	1638	
500-261092-13	PNC-01_20241205	Total Recoverable	Water	1638	
500-261092-15	SMW-3_20241204	Dissolved	Water	1638	
500-261092-15	SMW-3_20241204	Total Recoverable	Water	1638	
500-261092-17	SMW-3SB_20241204	Total Recoverable	Water	1638	
MB 350-4157/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-4157/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-4157/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-4157/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	
500-261092-2 MS	MW-1BR_20241205	Total Recoverable	Water	1638	
500-261092-2 MSD	MW-1BR_20241205	Total Recoverable	Water	1638	

Prep Batch: 4158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-17	SMW-3SB_20241204	Dissolved	Water	1638	
500-261092-19	MW-44_20241204	Dissolved	Water	1638	
500-261092-19	MW-44_20241204	Total Recoverable	Water	1638	
500-261092-21	ARC-02_20241204	Dissolved	Water	1638	
500-261092-21	ARC-02_20241204	Total Recoverable	Water	1638	
MB 350-4158/1-A	Method Blank	Total Recoverable	Water	1638	
MB 350-4158/2-A	Method Blank	Total Recoverable	Water	1638	
LCS 350-4158/3-A	Lab Control Sample	Total Recoverable	Water	1638	
LCSD 350-4158/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	

Analysis Batch: 4216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Dissolved	Water	1638	4157
500-261092-1	MW-1AR_20241205	Total Recoverable	Water	1638	4157
500-261092-2	MW-1BR_20241205	Dissolved	Water	1638	4157
500-261092-2	MW-1BR_20241205	Total Recoverable	Water	1638	4157
500-261092-5	ARC-01_20241205	Dissolved	Water	1638	4157
500-261092-5	ARC-01_20241205	Total Recoverable	Water	1638	4157
500-261092-7	DKC-01_20241205	Total Recoverable	Water	1638	4157
500-261092-9	MW-43_20241204	Dissolved	Water	1638	4157
500-261092-9	MW-43_20241204	Total Recoverable	Water	1638	4157
500-261092-11	FB-01-SW_20241204	Total Recoverable	Water	1638	4157
500-261092-13	PNC-01_20241205	Dissolved	Water	1638	4157
500-261092-17	SMW-3SB_20241204	Dissolved	Water	1638	4158
500-261092-17	SMW-3SB_20241204	Total Recoverable	Water	1638	4157
500-261092-19	MW-44_20241204	Dissolved	Water	1638	4158
500-261092-19	MW-44_20241204	Total Recoverable	Water	1638	4158
500-261092-21	ARC-02_20241204	Dissolved	Water	1638	4158
500-261092-21	ARC-02_20241204	Total Recoverable	Water	1638	4158
MB 350-4157/1-A	Method Blank	Total Recoverable	Water	1638	4157
MB 350-4157/2-A	Method Blank	Total Recoverable	Water	1638	4157
MB 350-4158/1-A	Method Blank	Total Recoverable	Water	1638	4158
MB 350-4158/2-A	Method Blank	Total Recoverable	Water	1638	4158
LCS 350-4157/3-A	Lab Control Sample	Total Recoverable	Water	1638	4157
LCS 350-4158/3-A	Lab Control Sample	Total Recoverable	Water	1638	4158

Metals (Continued)

Analysis Batch: 4216 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 350-4157/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	4157
LCSD 350-4158/4-A	Lab Control Sample Dup	Total Recoverable	Water	1638	4158
500-261092-2 MS	MW-1BR_20241205	Total Recoverable	Water	1638	4157
500-261092-2 MSD	MW-1BR_20241205	Total Recoverable	Water	1638	4157

Analysis Batch: 4231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-7	DKC-01_20241205	Dissolved	Water	1638	4157
500-261092-13	PNC-01_20241205	Total Recoverable	Water	1638	4157
500-261092-15	SMW-3_20241204	Dissolved	Water	1638	4157
500-261092-15	SMW-3_20241204	Total Recoverable	Water	1638	4157

Prep Batch: 799690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Dissolved	Water	3005A	
500-261092-1	MW-1AR_20241205	Total Recoverable	Water	3005A	
500-261092-2	MW-1BR_20241205	Dissolved	Water	3005A	
500-261092-2	MW-1BR_20241205	Total Recoverable	Water	3005A	
500-261092-5	ARC-01_20241205	Dissolved	Water	3005A	
500-261092-5	ARC-01_20241205	Total Recoverable	Water	3005A	
500-261092-7	DKC-01_20241205	Dissolved	Water	3005A	
500-261092-7	DKC-01_20241205	Total Recoverable	Water	3005A	
500-261092-9	MW-43_20241204	Dissolved	Water	3005A	
500-261092-9	MW-43_20241204	Total Recoverable	Water	3005A	
500-261092-13	PNC-01_20241205	Dissolved	Water	3005A	
500-261092-13	PNC-01_20241205	Total Recoverable	Water	3005A	
500-261092-15	SMW-3_20241204	Dissolved	Water	3005A	
500-261092-15	SMW-3_20241204	Total Recoverable	Water	3005A	
500-261092-17	SMW-3SB_20241204	Dissolved	Water	3005A	
500-261092-17	SMW-3SB_20241204	Total Recoverable	Water	3005A	
500-261092-19	MW-44_20241204	Dissolved	Water	3005A	
500-261092-19	MW-44_20241204	Total Recoverable	Water	3005A	
500-261092-21	ARC-02_20241204	Dissolved	Water	3005A	
500-261092-21	ARC-02_20241204	Total Recoverable	Water	3005A	
MB 500-799690/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-799690/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-261092-1 MS	MW-1AR_20241205	Total Recoverable	Water	3005A	
500-261092-1 MSD	MW-1AR_20241205	Total Recoverable	Water	3005A	
500-261092-1 DU	MW-1AR_20241205	Total Recoverable	Water	3005A	

Prep Batch: 799880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-11	FB-01-SW_20241204	Total Recoverable	Water	3005A	
MB 500-799880/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-799880/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 800085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Dissolved	Water	6020B	799690
500-261092-1	MW-1AR_20241205	Total Recoverable	Water	6020B	799690
500-261092-2	MW-1BR_20241205	Dissolved	Water	6020B	799690

Metals (Continued)

Analysis Batch: 800085 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-2	MW-1BR_20241205	Total Recoverable	Water	6020B	799690
500-261092-5	ARC-01_20241205	Dissolved	Water	6020B	799690
500-261092-5	ARC-01_20241205	Total Recoverable	Water	6020B	799690
500-261092-7	DKC-01_20241205	Dissolved	Water	6020B	799690
500-261092-7	DKC-01_20241205	Total Recoverable	Water	6020B	799690
500-261092-9	MW-43_20241204	Dissolved	Water	6020B	799690
500-261092-9	MW-43_20241204	Total Recoverable	Water	6020B	799690
500-261092-13	PNC-01_20241205	Dissolved	Water	6020B	799690
500-261092-13	PNC-01_20241205	Total Recoverable	Water	6020B	799690
500-261092-15	SMW-3_20241204	Dissolved	Water	6020B	799690
500-261092-15	SMW-3_20241204	Total Recoverable	Water	6020B	799690
500-261092-17	SMW-3SB_20241204	Dissolved	Water	6020B	799690
500-261092-17	SMW-3SB_20241204	Total Recoverable	Water	6020B	799690
500-261092-19	MW-44_20241204	Dissolved	Water	6020B	799690
500-261092-19	MW-44_20241204	Total Recoverable	Water	6020B	799690
500-261092-21	ARC-02_20241204	Dissolved	Water	6020B	799690
500-261092-21	ARC-02_20241204	Total Recoverable	Water	6020B	799690
MB 500-799690/1-A	Method Blank	Total Recoverable	Water	6020B	799690
LCS 500-799690/2-A	Lab Control Sample	Total Recoverable	Water	6020B	799690
500-261092-1 MS	MW-1AR_20241205	Total Recoverable	Water	6020B	799690
500-261092-1 MSD	MW-1AR_20241205	Total Recoverable	Water	6020B	799690
500-261092-1 DU	MW-1AR_20241205	Total Recoverable	Water	6020B	799690

Analysis Batch: 800101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total Recoverable	Water	SM 2340B	799690
500-261092-2	MW-1BR_20241205	Total Recoverable	Water	SM 2340B	799690
500-261092-5	ARC-01_20241205	Total Recoverable	Water	SM 2340B	799690
500-261092-7	DKC-01_20241205	Total Recoverable	Water	SM 2340B	799690
500-261092-9	MW-43_20241204	Total Recoverable	Water	SM 2340B	799690
500-261092-11	FB-01-SW_20241204	Total Recoverable	Water	SM 2340B	799880
500-261092-13	PNC-01_20241205	Total Recoverable	Water	SM 2340B	799690
500-261092-15	SMW-3_20241204	Total Recoverable	Water	SM 2340B	799690
500-261092-17	SMW-3SB_20241204	Total Recoverable	Water	SM 2340B	799690
500-261092-19	MW-44_20241204	Total Recoverable	Water	SM 2340B	799690
500-261092-21	ARC-02_20241204	Total Recoverable	Water	SM 2340B	799690

Analysis Batch: 800202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total Recoverable	Water	6020B	799690
MB 500-799690/1-A	Method Blank	Total Recoverable	Water	6020B	799690
LCS 500-799690/2-A	Lab Control Sample	Total Recoverable	Water	6020B	799690
500-261092-1 MS	MW-1AR_20241205	Total Recoverable	Water	6020B	799690
500-261092-1 MSD	MW-1AR_20241205	Total Recoverable	Water	6020B	799690
500-261092-1 DU	MW-1AR_20241205	Total Recoverable	Water	6020B	799690

Analysis Batch: 800415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-11	FB-01-SW_20241204	Total Recoverable	Water	6020B	799880
MB 500-799880/1-A	Method Blank	Total Recoverable	Water	6020B	799880
LCS 500-799880/2-A	Lab Control Sample	Total Recoverable	Water	6020B	799880

General Chemistry

Analysis Batch: 798443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	300.0	
500-261092-2	MW-1BR_20241205	Total/NA	Water	300.0	
500-261092-5	ARC-01_20241205	Total/NA	Water	300.0	
500-261092-7	DKC-01_20241205	Total/NA	Water	300.0	
500-261092-9	MW-43_20241204	Total/NA	Water	300.0	
500-261092-11	FB-01-SW_20241204	Total/NA	Water	300.0	
500-261092-13	PNC-01_20241205	Total/NA	Water	300.0	
500-261092-15	SMW-3_20241204	Total/NA	Water	300.0	
500-261092-17	SMW-3SB_20241204	Total/NA	Water	300.0	
500-261092-19	MW-44_20241204	Total/NA	Water	300.0	
500-261092-21	ARC-02_20241204	Total/NA	Water	300.0	
MB 500-798443/3	Method Blank	Total/NA	Water	300.0	
LCS 500-798443/4	Lab Control Sample	Total/NA	Water	300.0	
500-261092-1 MS	MW-1AR_20241205	Total/NA	Water	300.0	
500-261092-1 MSD	MW-1AR_20241205	Total/NA	Water	300.0	
500-261092-13 MS	PNC-01_20241205	Total/NA	Water	300.0	
500-261092-13 MSD	PNC-01_20241205	Total/NA	Water	300.0	

Analysis Batch: 798444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	300.0	
500-261092-2	MW-1BR_20241205	Total/NA	Water	300.0	
500-261092-5	ARC-01_20241205	Total/NA	Water	300.0	
500-261092-7	DKC-01_20241205	Total/NA	Water	300.0	
500-261092-9	MW-43_20241204	Total/NA	Water	300.0	
500-261092-11	FB-01-SW_20241204	Total/NA	Water	300.0	
500-261092-13	PNC-01_20241205	Total/NA	Water	300.0	
500-261092-15	SMW-3_20241204	Total/NA	Water	300.0	
500-261092-17	SMW-3SB_20241204	Total/NA	Water	300.0	
500-261092-19	MW-44_20241204	Total/NA	Water	300.0	
500-261092-21	ARC-02_20241204	Total/NA	Water	300.0	
MB 500-798444/3	Method Blank	Total/NA	Water	300.0	
LCS 500-798444/4	Lab Control Sample	Total/NA	Water	300.0	
500-261092-1 MS	MW-1AR_20241205	Total/NA	Water	300.0	
500-261092-1 MSD	MW-1AR_20241205	Total/NA	Water	300.0	
500-261092-13 MS	PNC-01_20241205	Total/NA	Water	300.0	
500-261092-13 MSD	PNC-01_20241205	Total/NA	Water	300.0	

Analysis Batch: 798487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	SM 5310C	
500-261092-2	MW-1BR_20241205	Total/NA	Water	SM 5310C	
500-261092-5	ARC-01_20241205	Total/NA	Water	SM 5310C	
MB 500-798487/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-798487/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Prep Batch: 798546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	365.2/365.3/365	
500-261092-2	MW-1BR_20241205	Total/NA	Water	365.2/365.3/365	
500-261092-9	MW-43_20241204	Total/NA	Water	365.2/365.3/365	

General Chemistry (Continued)

Prep Batch: 798546 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-11	FB-01-SW_20241204	Total/NA	Water	365.2/365.3/365	
500-261092-15	SMW-3_20241204	Total/NA	Water	365.2/365.3/365	
500-261092-17	SMW-3SB_20241204	Total/NA	Water	365.2/365.3/365	
500-261092-19	MW-44_20241204	Total/NA	Water	365.2/365.3/365	
500-261092-21	ARC-02_20241204	Total/NA	Water	365.2/365.3/365	
MB 500-798546/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-798546/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
500-261092-2 MS	MW-1BR_20241205	Total/NA	Water	365.2/365.3/365	
500-261092-2 MSD	MW-1BR_20241205	Total/NA	Water	365.2/365.3/365	

Prep Batch: 798568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-9	MW-43_20241204	Total/NA	Water	Distill/CN	
500-261092-11	FB-01-SW_20241204	Total/NA	Water	Distill/CN	
500-261092-15	SMW-3_20241204	Total/NA	Water	Distill/CN	
500-261092-17	SMW-3SB_20241204	Total/NA	Water	Distill/CN	
500-261092-19	MW-44_20241204	Total/NA	Water	Distill/CN	
500-261092-21	ARC-02_20241204	Total/NA	Water	Distill/CN	
MB 500-798568/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-798568/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
500-261092-19 MS	MW-44_20241204	Total/NA	Water	Distill/CN	
500-261092-19 MSD	MW-44_20241204	Total/NA	Water	Distill/CN	

Analysis Batch: 798623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-9	MW-43_20241204	Total/NA	Water	335.4	798568
500-261092-11	FB-01-SW_20241204	Total/NA	Water	335.4	798568
500-261092-15	SMW-3_20241204	Total/NA	Water	335.4	798568
500-261092-17	SMW-3SB_20241204	Total/NA	Water	335.4	798568
500-261092-19	MW-44_20241204	Total/NA	Water	335.4	798568
500-261092-21	ARC-02_20241204	Total/NA	Water	335.4	798568
MB 500-798568/1-A	Method Blank	Total/NA	Water	335.4	798568
LCS 500-798568/2-A	Lab Control Sample	Total/NA	Water	335.4	798568
500-261092-19 MS	MW-44_20241204	Total/NA	Water	335.4	798568
500-261092-19 MSD	MW-44_20241204	Total/NA	Water	335.4	798568

Analysis Batch: 798664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-9	MW-43_20241204	Total/NA	Water	SM 4500 S2 F	
500-261092-11	FB-01-SW_20241204	Total/NA	Water	SM 4500 S2 F	
500-261092-15	SMW-3_20241204	Total/NA	Water	SM 4500 S2 F	
500-261092-17	SMW-3SB_20241204	Total/NA	Water	SM 4500 S2 F	
500-261092-19	MW-44_20241204	Total/NA	Water	SM 4500 S2 F	
MB 500-798664/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-798664/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Prep Batch: 798822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	Distill/CN	
500-261092-2	MW-1BR_20241205	Total/NA	Water	Distill/CN	
500-261092-5	ARC-01_20241205	Total/NA	Water	Distill/CN	

General Chemistry (Continued)

Prep Batch: 798822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-7	DKC-01_20241205	Total/NA	Water	Distill/CN	
500-261092-13	PNC-01_20241205	Total/NA	Water	Distill/CN	
MB 500-798822/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 500-798822/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 798853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	SM 2540C	
500-261092-2	MW-1BR_20241205	Total/NA	Water	SM 2540C	
500-261092-5	ARC-01_20241205	Total/NA	Water	SM 2540C	
500-261092-7	DKC-01_20241205	Total/NA	Water	SM 2540C	
500-261092-9	MW-43_20241204	Total/NA	Water	SM 2540C	
500-261092-11	FB-01-SW_20241204	Total/NA	Water	SM 2540C	
500-261092-13	PNC-01_20241205	Total/NA	Water	SM 2540C	
500-261092-15	SMW-3_20241204	Total/NA	Water	SM 2540C	
MB 500-798853/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-798853/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 798854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-17	SMW-3SB_20241204	Total/NA	Water	SM 2540C	
500-261092-19	MW-44_20241204	Total/NA	Water	SM 2540C	
500-261092-21	ARC-02_20241204	Total/NA	Water	SM 2540C	
MB 500-798854/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-798854/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-261092-17 MS	SMW-3SB_20241204	Total/NA	Water	SM 2540C	
500-261092-17 DU	SMW-3SB_20241204	Total/NA	Water	SM 2540C	
500-261092-19 DU	MW-44_20241204	Total/NA	Water	SM 2540C	

Analysis Batch: 798858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-7	DKC-01_20241205	Total/NA	Water	SM 5310C	
500-261092-9	MW-43_20241204	Total/NA	Water	SM 5310C	
500-261092-11	FB-01-SW_20241204	Total/NA	Water	SM 5310C	
500-261092-13	PNC-01_20241205	Total/NA	Water	SM 5310C	
500-261092-15	SMW-3_20241204	Total/NA	Water	SM 5310C	
500-261092-17	SMW-3SB_20241204	Total/NA	Water	SM 5310C	
500-261092-19	MW-44_20241204	Total/NA	Water	SM 5310C	
500-261092-21	ARC-02_20241204	Total/NA	Water	SM 5310C	
MB 500-798858/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 500-798858/8	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 798878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Dissolved	Water	SM 5310C	
500-261092-2	MW-1BR_20241205	Dissolved	Water	SM 5310C	
500-261092-5	ARC-01_20241205	Dissolved	Water	SM 5310C	
500-261092-7	DKC-01_20241205	Dissolved	Water	SM 5310C	
500-261092-9	MW-43_20241204	Dissolved	Water	SM 5310C	
500-261092-13	PNC-01_20241205	Dissolved	Water	SM 5310C	
500-261092-15	SMW-3_20241204	Dissolved	Water	SM 5310C	

General Chemistry (Continued)

Analysis Batch: 798878 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-17	SMW-3SB_20241204	Dissolved	Water	SM 5310C	
500-261092-19	MW-44_20241204	Dissolved	Water	SM 5310C	
500-261092-21	ARC-02_20241204	Dissolved	Water	SM 5310C	
MB 500-798878/31	Method Blank	Dissolved	Water	SM 5310C	
LCS 500-798878/32	Lab Control Sample	Dissolved	Water	SM 5310C	

Analysis Batch: 798893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	SM 2320B	
500-261092-2	MW-1BR_20241205	Total/NA	Water	SM 2320B	
500-261092-5	ARC-01_20241205	Total/NA	Water	SM 2320B	
500-261092-7	DKC-01_20241205	Total/NA	Water	SM 2320B	
500-261092-9	MW-43_20241204	Total/NA	Water	SM 2320B	
500-261092-15	SMW-3_20241204	Total/NA	Water	SM 2320B	
500-261092-17	SMW-3SB_20241204	Total/NA	Water	SM 2320B	
500-261092-19	MW-44_20241204	Total/NA	Water	SM 2320B	
MB 500-798893/5	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-798893/6	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 798982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-9	MW-43_20241204	Total/NA	Water	SM 2540D	
500-261092-11	FB-01-SW_20241204	Total/NA	Water	SM 2540D	
500-261092-15	SMW-3_20241204	Total/NA	Water	SM 2540D	
500-261092-17	SMW-3SB_20241204	Total/NA	Water	SM 2540D	
500-261092-19	MW-44_20241204	Total/NA	Water	SM 2540D	
500-261092-21	ARC-02_20241204	Total/NA	Water	SM 2540D	
MB 500-798982/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-798982/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 799026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-21	ARC-02_20241204	Total/NA	Water	SM 4500 S2 F	
MB 500-799026/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 500-799026/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 799027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	SM 2540D	
MB 500-799027/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-799027/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-261092-1 MS	MW-1AR_20241205	Total/NA	Water	SM 2540D	

Analysis Batch: 799052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	SM 4500 S2 F	
500-261092-2	MW-1BR_20241205	Total/NA	Water	SM 4500 S2 F	
500-261092-5	ARC-01_20241205	Total/NA	Water	SM 4500 S2 F	
500-261092-7	DKC-01_20241205	Total/NA	Water	SM 4500 S2 F	
500-261092-13	PNC-01_20241205	Total/NA	Water	SM 4500 S2 F	
MB 500-799052/1	Method Blank	Total/NA	Water	SM 4500 S2 F	

General Chemistry (Continued)

Analysis Batch: 799052 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-799052/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 799056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	335.4	798822
500-261092-2	MW-1BR_20241205	Total/NA	Water	335.4	798822
500-261092-5	ARC-01_20241205	Total/NA	Water	335.4	798822
500-261092-7	DKC-01_20241205	Total/NA	Water	335.4	798822
500-261092-13	PNC-01_20241205	Total/NA	Water	335.4	798822
MB 500-798822/1-A	Method Blank	Total/NA	Water	335.4	798822
LCS 500-798822/2-A	Lab Control Sample	Total/NA	Water	335.4	798822

Analysis Batch: 799175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-2	MW-1BR_20241205	Total/NA	Water	SM 2540D	
500-261092-5	ARC-01_20241205	Total/NA	Water	SM 2540D	
500-261092-7	DKC-01_20241205	Total/NA	Water	SM 2540D	
500-261092-13	PNC-01_20241205	Total/NA	Water	SM 2540D	
MB 500-799175/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-799175/2	Lab Control Sample	Total/NA	Water	SM 2540D	
500-261092-2 DU	MW-1BR_20241205	Total/NA	Water	SM 2540D	

Analysis Batch: 799336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	365.1	798546
500-261092-2	MW-1BR_20241205	Total/NA	Water	365.1	798546
500-261092-9	MW-43_20241204	Total/NA	Water	365.1	798546
500-261092-11	FB-01-SW_20241204	Total/NA	Water	365.1	798546
500-261092-15	SMW-3_20241204	Total/NA	Water	365.1	798546
500-261092-17	SMW-3SB_20241204	Total/NA	Water	365.1	798546
500-261092-19	MW-44_20241204	Total/NA	Water	365.1	798546
500-261092-21	ARC-02_20241204	Total/NA	Water	365.1	798546
MB 500-798546/1-A	Method Blank	Total/NA	Water	365.1	798546
LCS 500-798546/2-A	Lab Control Sample	Total/NA	Water	365.1	798546
500-261092-2 MS	MW-1BR_20241205	Total/NA	Water	365.1	798546
500-261092-2 MSD	MW-1BR_20241205	Total/NA	Water	365.1	798546

Analysis Batch: 799502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-11	FB-01-SW_20241204	Total/NA	Water	SM 2320B	
500-261092-21	ARC-02_20241204	Total/NA	Water	SM 2320B	
MB 500-799502/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-799502/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Prep Batch: 799544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-5	ARC-01_20241205	Total/NA	Water	365.2/365.3/365	
500-261092-7	DKC-01_20241205	Total/NA	Water	365.2/365.3/365	
500-261092-13	PNC-01_20241205	Total/NA	Water	365.2/365.3/365	
MB 500-799544/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 500-799544/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

General Chemistry

Analysis Batch: 799707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-13	PNC-01_20241205	Total/NA	Water	SM 2320B	
MB 500-799707/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-799707/29	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 800190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-5	ARC-01_20241205	Total/NA	Water	365.1	799544
500-261092-7	DKC-01_20241205	Total/NA	Water	365.1	799544
500-261092-13	PNC-01_20241205	Total/NA	Water	365.1	799544
MB 500-799544/1-A	Method Blank	Total/NA	Water	365.1	799544
LCS 500-799544/2-A	Lab Control Sample	Total/NA	Water	365.1	799544

Prep Batch: 800314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	Distill/Ammonia	
500-261092-2	MW-1BR_20241205	Total/NA	Water	Distill/Ammonia	
500-261092-5	ARC-01_20241205	Total/NA	Water	Distill/Ammonia	
500-261092-7	DKC-01_20241205	Total/NA	Water	Distill/Ammonia	
500-261092-9	MW-43_20241204	Total/NA	Water	Distill/Ammonia	
500-261092-11	FB-01-SW_20241204	Total/NA	Water	Distill/Ammonia	
MB 500-800314/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-800314/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Prep Batch: 800368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-13	PNC-01_20241205	Total/NA	Water	Distill/Ammonia	
500-261092-15	SMW-3_20241204	Total/NA	Water	Distill/Ammonia	
500-261092-17	SMW-3SB_20241204	Total/NA	Water	Distill/Ammonia	
500-261092-19	MW-44_20241204	Total/NA	Water	Distill/Ammonia	
500-261092-21	ARC-02_20241204	Total/NA	Water	Distill/Ammonia	
MB 500-800368/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 500-800368/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 800414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	350.1	800314
500-261092-2	MW-1BR_20241205	Total/NA	Water	350.1	800314
500-261092-5	ARC-01_20241205	Total/NA	Water	350.1	800314
500-261092-7	DKC-01_20241205	Total/NA	Water	350.1	800314
500-261092-9	MW-43_20241204	Total/NA	Water	350.1	800314
500-261092-11	FB-01-SW_20241204	Total/NA	Water	350.1	800314
500-261092-13	PNC-01_20241205	Total/NA	Water	350.1	800368
500-261092-15	SMW-3_20241204	Total/NA	Water	350.1	800368
500-261092-17	SMW-3SB_20241204	Total/NA	Water	350.1	800368
500-261092-19	MW-44_20241204	Total/NA	Water	350.1	800368
500-261092-21	ARC-02_20241204	Total/NA	Water	350.1	800368
MB 500-800314/1-A	Method Blank	Total/NA	Water	350.1	800314
MB 500-800368/1-A	Method Blank	Total/NA	Water	350.1	800368
LCS 500-800314/2-A	Lab Control Sample	Total/NA	Water	350.1	800314
LCS 500-800368/2-A	Lab Control Sample	Total/NA	Water	350.1	800368

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

General Chemistry

Analysis Batch: 800476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	SM 2520B	
500-261092-2	MW-1BR_20241205	Total/NA	Water	SM 2520B	
500-261092-5	ARC-01_20241205	Total/NA	Water	SM 2520B	
500-261092-7	DKC-01_20241205	Total/NA	Water	SM 2520B	
500-261092-9	MW-43_20241204	Total/NA	Water	SM 2520B	
500-261092-11	FB-01-SW_20241204	Total/NA	Water	SM 2520B	
500-261092-13	PNC-01_20241205	Total/NA	Water	SM 2520B	
500-261092-15	SMW-3_20241204	Total/NA	Water	SM 2520B	
500-261092-17	SMW-3SB_20241204	Total/NA	Water	SM 2520B	
500-261092-19	MW-44_20241204	Total/NA	Water	SM 2520B	
500-261092-21	ARC-02_20241204	Total/NA	Water	SM 2520B	
500-261092-1 DU	MW-1AR_20241205	Total/NA	Water	SM 2520B	
500-261092-17 DU	SMW-3SB_20241204	Total/NA	Water	SM 2520B	

Analysis Batch: 800747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-261092-1	MW-1AR_20241205	Total/NA	Water	300.0	
500-261092-2	MW-1BR_20241205	Total/NA	Water	300.0	
500-261092-17	SMW-3SB_20241204	Total/NA	Water	300.0	
500-261092-19	MW-44_20241204	Total/NA	Water	300.0	
MB 500-800747/3	Method Blank	Total/NA	Water	300.0	
LCS 500-800747/4	Lab Control Sample	Total/NA	Water	300.0	

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-3869/1-A
Matrix: Water
Analysis Batch: 3916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 15:12	1

Lab Sample ID: MB 350-3869/2-A
Matrix: Water
Analysis Batch: 3916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 15:23	1

Lab Sample ID: MB 350-3869/3-A
Matrix: Water
Analysis Batch: 3916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/13/24 10:32	12/13/24 15:33	1

Lab Sample ID: LCS 350-3869/4-A
Matrix: Water
Analysis Batch: 3916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3869

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl Mercury			1.00	0.804		ng/L		80	65 - 135		

Lab Sample ID: LCSD 350-3869/5-A
Matrix: Water
Analysis Batch: 3916

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3869

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury			1.00	0.826		ng/L		83	65 - 135	3	35

Lab Sample ID: 500-261092-2 MS
Matrix: Water
Analysis Batch: 3916

Client Sample ID: MW-1BR_20241205
Prep Type: Total/NA
Prep Batch: 3869

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl Mercury	<0.022		1.00	0.870		ng/L		87	65 - 135		

Lab Sample ID: 500-261092-2 MSD
Matrix: Water
Analysis Batch: 3916

Client Sample ID: MW-1BR_20241205
Prep Type: Total/NA
Prep Batch: 3869

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	<0.022		1.00	0.850		ng/L		85	65 - 135	2	35

Lab Sample ID: MB 350-3963/1-A
Matrix: Water
Analysis Batch: 4029

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	0.0673		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 15:57	1

Method: 1630 - Methyl Mercury

Lab Sample ID: MB 350-3963/2-A
Matrix: Water
Analysis Batch: 4029

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	0.0458	J	0.050	0.022	ng/L		12/18/24 10:41	12/19/24 16:08	1

Lab Sample ID: MB 350-3963/3-A
Matrix: Water
Analysis Batch: 4029

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/18/24 10:41	12/19/24 16:18	1

Lab Sample ID: LCS 350-3963/4-A
Matrix: Water
Analysis Batch: 4029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.969		ng/L		97	65 - 135

Lab Sample ID: LCSD 350-3963/5-A
Matrix: Water
Analysis Batch: 4029

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3963

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury	1.00	1.01		ng/L		101	65 - 135	4	35

Lab Sample ID: MB 350-4026/1-A
Matrix: Water
Analysis Batch: 4067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/20/24 11:36	12/20/24 16:52	1

Lab Sample ID: MB 350-4026/2-A
Matrix: Water
Analysis Batch: 4067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/20/24 11:36	12/20/24 17:03	1

Lab Sample ID: MB 350-4026/3-A
Matrix: Water
Analysis Batch: 4067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Mercury	<0.022		0.050	0.022	ng/L		12/20/24 11:36	12/20/24 17:13	1

Lab Sample ID: LCS 350-4026/4-A
Matrix: Water
Analysis Batch: 4067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl Mercury	1.00	0.843		ng/L		84	65 - 135

Method: 1630 - Methyl Mercury

Lab Sample ID: LCSD 350-4026/5-A
Matrix: Water
Analysis Batch: 4067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4026

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl Mercury			1.00	1.05		ng/L		105	65 - 135	22	35

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-3995/17
Matrix: Water
Analysis Batch: 3995

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/18/24 14:26	1

Lab Sample ID: MB 350-3995/18
Matrix: Water
Analysis Batch: 3995

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/18/24 14:30	1

Lab Sample ID: MB 350-3995/19
Matrix: Water
Analysis Batch: 3995

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/18/24 14:34	1

Lab Sample ID: MB 350-3995/24
Matrix: Water
Analysis Batch: 3995

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/18/24 14:55	1

Lab Sample ID: MB 350-3995/25
Matrix: Water
Analysis Batch: 3995

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/18/24 14:59	1

Lab Sample ID: MB 350-3995/26
Matrix: Water
Analysis Batch: 3995

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/18/24 15:03	1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: LCS 350-3995/20
Matrix: Water
Analysis Batch: 3995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			5.00	4.96		ng/L		99	77 - 123		

Lab Sample ID: LCS 350-3995/27
Matrix: Water
Analysis Batch: 3995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			5.00	5.32		ng/L		106	77 - 123		

Lab Sample ID: LCSD 350-3995/23
Matrix: Water
Analysis Batch: 3995

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			5.00	4.92		ng/L		98	77 - 123	1	24

Lab Sample ID: LCSD 350-3995/28
Matrix: Water
Analysis Batch: 3995

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			5.00	5.26		ng/L		105	77 - 123	1	24

Lab Sample ID: MB 350-4086/13
Matrix: Water
Analysis Batch: 4086

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/23/24 13:21	1

Lab Sample ID: MB 350-4086/14
Matrix: Water
Analysis Batch: 4086

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/23/24 13:25	1

Lab Sample ID: MB 350-4086/15
Matrix: Water
Analysis Batch: 4086

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.50	0.20	ng/L			12/23/24 13:29	1

Lab Sample ID: LCS 350-4086/24
Matrix: Water
Analysis Batch: 4086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			5.00	4.82		ng/L		96	77 - 123		

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: LCSD 350-4086/25
Matrix: Water
Analysis Batch: 4086

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			5.00	4.58		ng/L		92	77 - 123	5	24

Method: 1638 - Metals (ICP/MS)

Lab Sample ID: MB 350-4157/1-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 12:40	1

Lab Sample ID: MB 350-4157/2-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 12:44	1

Lab Sample ID: LCS 350-4157/3-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4157

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium			25.0	24.1		ug/L		96	85 - 115		

Lab Sample ID: LCSD 350-4157/4-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 4157

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium			25.0	24.5		ug/L		98	85 - 115	1	20

Lab Sample ID: 500-261092-2 MS
Matrix: Water
Analysis Batch: 4216

Client Sample ID: MW-1BR_20241205
Prep Type: Total Recoverable
Prep Batch: 4157

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Uranium	4.8		25.0	29.6		ug/L		99	70 - 130		

Lab Sample ID: 500-261092-2 MSD
Matrix: Water
Analysis Batch: 4216

Client Sample ID: MW-1BR_20241205
Prep Type: Total Recoverable
Prep Batch: 4157

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	4.8		25.0	29.8		ug/L		100	70 - 130	1	20

Method: 1638 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 350-4158/1-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4158

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 14:41	1

Lab Sample ID: MB 350-4158/2-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4158

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0098		0.050	0.0098	ug/L		12/27/24 17:34	12/30/24 14:45	1

Lab Sample ID: LCS 350-4158/3-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4158

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	25.0	26.1		ug/L		104	85 - 115

Lab Sample ID: LCSD 350-4158/4-A
Matrix: Water
Analysis Batch: 4216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 4158

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	25.0	26.4		ug/L		106	85 - 115	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-799690/1-A
Matrix: Water
Analysis Batch: 800085

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 799690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/17/24 08:19	12/18/24 15:58	1
Antimony	<1.3		3.0	1.3	ug/L		12/17/24 08:19	12/18/24 15:58	1
Arsenic	<0.23		1.0	0.23	ug/L		12/17/24 08:19	12/18/24 15:58	1
Barium	<0.73		2.5	0.73	ug/L		12/17/24 08:19	12/18/24 15:58	1
Beryllium	<0.53		1.0	0.53	ug/L		12/17/24 08:19	12/18/24 15:58	1
Cadmium	<0.17		0.50	0.17	ug/L		12/17/24 08:19	12/18/24 15:58	1
Calcium	<44		200	44	ug/L		12/17/24 08:19	12/18/24 15:58	1
Chromium	<1.1		5.0	1.1	ug/L		12/17/24 08:19	12/18/24 15:58	1
Cobalt	<0.40		1.0	0.40	ug/L		12/17/24 08:19	12/18/24 15:58	1
Copper	<0.50		2.0	0.50	ug/L		12/17/24 08:19	12/18/24 15:58	1
Iron	<47		100	47	ug/L		12/17/24 08:19	12/18/24 15:58	1
Lead	<0.19		0.50	0.19	ug/L		12/17/24 08:19	12/18/24 15:58	1
Lithium	<2.5		10	2.5	ug/L		12/17/24 08:19	12/18/24 15:58	1
Magnesium	<49		200	49	ug/L		12/17/24 08:19	12/18/24 15:58	1
Manganese	<0.79		2.5	0.79	ug/L		12/17/24 08:19	12/18/24 15:58	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/17/24 08:19	12/18/24 15:58	1
Nickel	<0.63		2.0	0.63	ug/L		12/17/24 08:19	12/18/24 15:58	1
Potassium	<110		500	110	ug/L		12/17/24 08:19	12/18/24 15:58	1
Selenium	<0.98		2.5	0.98	ug/L		12/17/24 08:19	12/18/24 15:58	1
Silver	<0.12		0.50	0.12	ug/L		12/17/24 08:19	12/18/24 15:58	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-799690/1-A
Matrix: Water
Analysis Batch: 800085

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 799690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<77		200	77	ug/L		12/17/24 08:19	12/18/24 15:58	1
Strontium	<0.64		4.0	0.64	ug/L		12/17/24 08:19	12/18/24 15:58	1
Thallium	<0.57		2.0	0.57	ug/L		12/17/24 08:19	12/18/24 15:58	1
Tin	<1.3		5.0	1.3	ug/L		12/17/24 08:19	12/18/24 15:58	1
Vanadium	<2.2		5.0	2.2	ug/L		12/17/24 08:19	12/18/24 15:58	1
Zinc	<6.9		20	6.9	ug/L		12/17/24 08:19	12/18/24 15:58	1

Lab Sample ID: MB 500-799690/1-A
Matrix: Water
Analysis Batch: 800202

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 799690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	17.8	J	50	13	ug/L		12/17/24 08:19	12/19/24 11:14	1

Lab Sample ID: LCS 500-799690/2-A
Matrix: Water
Analysis Batch: 800085

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 799690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1960		ug/L		98	80 - 120
Antimony	500	525		ug/L		105	80 - 120
Arsenic	100	97.5		ug/L		97	80 - 120
Barium	500	523		ug/L		105	80 - 120
Beryllium	50.0	49.2		ug/L		98	80 - 120
Cadmium	50.0	51.3		ug/L		103	80 - 120
Calcium	10000	8300		ug/L		83	80 - 120
Chromium	200	200		ug/L		100	80 - 120
Cobalt	500	535		ug/L		107	80 - 120
Copper	250	254		ug/L		102	80 - 120
Iron	1000	1060		ug/L		106	80 - 120
Lead	100	101		ug/L		101	80 - 120
Lithium	100	106		ug/L		106	80 - 120
Magnesium	10000	10300		ug/L		103	80 - 120
Manganese	500	518		ug/L		104	80 - 120
Molybdenum	1000	1000		ug/L		100	80 - 120
Nickel	500	495		ug/L		99	80 - 120
Potassium	10000	10500		ug/L		105	80 - 120
Selenium	100	98.6		ug/L		99	80 - 120
Silver	50.0	51.1		ug/L		102	80 - 120
Sodium	10000	10200		ug/L		102	80 - 120
Strontium	1000	1000		ug/L		100	80 - 120
Thallium	100	103		ug/L		103	80 - 120
Tin	1000	1020		ug/L		102	80 - 120
Vanadium	500	509		ug/L		102	80 - 120
Zinc	500	504		ug/L		101	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-799690/2-A
Matrix: Water
Analysis Batch: 800202

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 799690

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron			1000	1010		ug/L		101	80 - 120		

Lab Sample ID: 500-261092-1 MS
Matrix: Water
Analysis Batch: 800085

Client Sample ID: MW-1AR_20241205
Prep Type: Total Recoverable
Prep Batch: 799690

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum	62	J	2000	2040		ug/L		99	75 - 125		
Antimony	<1.3		500	544		ug/L		109	75 - 125		
Arsenic	0.78	J	100	102		ug/L		102	75 - 125		
Barium	52		500	577		ug/L		105	75 - 125		
Beryllium	<0.53		50.0	49.2		ug/L		98	75 - 125		
Cadmium	<0.17		50.0	51.5		ug/L		103	75 - 125		
Calcium	41000		10000	47100	4	ug/L		66	75 - 125		
Chromium	<1.1		200	200		ug/L		100	75 - 125		
Cobalt	<0.40		500	529		ug/L		106	75 - 125		
Copper	0.88	J	250	259		ug/L		103	75 - 125		
Iron	72	J	1000	1120		ug/L		105	75 - 125		
Lead	<0.19		100	102		ug/L		102	75 - 125		
Lithium	6.3	J	100	109		ug/L		103	75 - 125		
Magnesium	15000		10000	24600		ug/L		92	75 - 125		
Manganese	17		500	529		ug/L		102	75 - 125		
Molybdenum	31		1000	1070		ug/L		104	75 - 125		
Nickel	<0.63		500	495		ug/L		99	75 - 125		
Potassium	3400		10000	13700		ug/L		103	75 - 125		
Selenium	<0.98		100	103		ug/L		103	75 - 125		
Silver	<0.12		50.0	51.2		ug/L		102	75 - 125		
Sodium	92000		10000	97100	4	ug/L		53	75 - 125		
Strontium	610		1000	1590		ug/L		98	75 - 125		
Thallium	<0.57		100	105		ug/L		105	75 - 125		
Tin	2.8	J	1000	1060		ug/L		105	75 - 125		
Vanadium	<2.2		500	512		ug/L		102	75 - 125		
Zinc	<6.9		500	508		ug/L		102	75 - 125		

Lab Sample ID: 500-261092-1 MS
Matrix: Water
Analysis Batch: 800202

Client Sample ID: MW-1AR_20241205
Prep Type: Total Recoverable
Prep Batch: 799690

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron	750	B	1000	1810		ug/L		106	75 - 125		

Lab Sample ID: 500-261092-1 MSD
Matrix: Water
Analysis Batch: 800085

Client Sample ID: MW-1AR_20241205
Prep Type: Total Recoverable
Prep Batch: 799690

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	62	J	2000	2010		ug/L		98	75 - 125	1	20
Antimony	<1.3		500	533		ug/L		107	75 - 125	2	20
Arsenic	0.78	J	100	101		ug/L		100	75 - 125	2	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-261092-1 MSD
Matrix: Water
Analysis Batch: 800085

Client Sample ID: MW-1AR_20241205
Prep Type: Total Recoverable
Prep Batch: 799690

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	52		500	561		ug/L		102	75 - 125	3	20
Beryllium	<0.53		50.0	49.7		ug/L		99	75 - 125	1	20
Cadmium	<0.17		50.0	50.5		ug/L		101	75 - 125	2	20
Calcium	41000		10000	46100	4	ug/L		55	75 - 125	2	20
Chromium	<1.1		200	196		ug/L		98	75 - 125	2	20
Cobalt	<0.40		500	519		ug/L		104	75 - 125	2	20
Copper	0.88	J	250	253		ug/L		101	75 - 125	2	20
Iron	72	J	1000	1100		ug/L		102	75 - 125	2	20
Lead	<0.19		100	101		ug/L		101	75 - 125	1	20
Lithium	6.3	J	100	106		ug/L		100	75 - 125	3	20
Magnesium	15000		10000	24200		ug/L		87	75 - 125	2	20
Manganese	17		500	525		ug/L		102	75 - 125	1	20
Molybdenum	31		1000	1050		ug/L		102	75 - 125	2	20
Nickel	<0.63		500	487		ug/L		97	75 - 125	2	20
Potassium	3400		10000	13400		ug/L		100	75 - 125	2	20
Selenium	<0.98		100	99.2		ug/L		99	75 - 125	3	20
Silver	<0.12		50.0	50.6		ug/L		101	75 - 125	1	20
Sodium	92000		10000	95300	4	ug/L		35	75 - 125	2	20
Strontium	610		1000	1570		ug/L		96	75 - 125	1	20
Thallium	<0.57		100	103		ug/L		103	75 - 125	2	20
Tin	2.8	J	1000	1030		ug/L		103	75 - 125	2	20
Vanadium	<2.2		500	508		ug/L		102	75 - 125	1	20
Zinc	<6.9		500	499		ug/L		100	75 - 125	2	20

Lab Sample ID: 500-261092-1 MSD
Matrix: Water
Analysis Batch: 800202

Client Sample ID: MW-1AR_20241205
Prep Type: Total Recoverable
Prep Batch: 799690

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	750	B	1000	1710		ug/L		96	75 - 125	6	20

Lab Sample ID: 500-261092-1 DU
Matrix: Water
Analysis Batch: 800085

Client Sample ID: MW-1AR_20241205
Prep Type: Total Recoverable
Prep Batch: 799690

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	62	J		63.9	J	ug/L				4	20
Antimony	<1.3			<1.3		ug/L				NC	20
Arsenic	0.78	J		0.696	J	ug/L				12	20
Barium	52			50.0		ug/L				4	20
Beryllium	<0.53			<0.53		ug/L				NC	20
Cadmium	<0.17			<0.17		ug/L				NC	20
Calcium	41000			38500		ug/L				5	20
Chromium	<1.1			<1.1		ug/L				NC	20
Cobalt	<0.40			<0.40		ug/L				NC	20
Copper	0.88	J		1.03	J	ug/L				16	20
Iron	72	J		71.6	J	ug/L				0.8	20
Lead	<0.19			<0.19		ug/L				NC	20
Lithium	6.3	J		5.88	J	ug/L				7	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-261092-1 DU
Matrix: Water
Analysis Batch: 800085

Client Sample ID: MW-1AR_20241205
Prep Type: Total Recoverable
Prep Batch: 799690

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Magnesium	15000		14600		ug/L		5	20
Manganese	17		16.2		ug/L		3	20
Molybdenum	31		29.4		ug/L		5	20
Nickel	<0.63		<0.63		ug/L		NC	20
Potassium	3400		3240		ug/L		6	20
Selenium	<0.98		<0.98		ug/L		NC	20
Silver	<0.12		<0.12		ug/L		NC	20
Sodium	92000		87000		ug/L		5	20
Strontium	610		580		ug/L		4	20
Thallium	<0.57		<0.57		ug/L		NC	20
Tin	2.8	J	<1.3		ug/L		NC	20
Vanadium	<2.2		<2.2		ug/L		NC	20
Zinc	<6.9		<6.9		ug/L		NC	20

Lab Sample ID: 500-261092-1 DU
Matrix: Water
Analysis Batch: 800202

Client Sample ID: MW-1AR_20241205
Prep Type: Total Recoverable
Prep Batch: 799690

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	750	B	753		ug/L		0.6	20

Lab Sample ID: MB 500-799880/1-A
Matrix: Water
Analysis Batch: 800415

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 799880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<25		100	25	ug/L		12/18/24 08:27	12/20/24 13:56	1
Antimony	<1.3		3.0	1.3	ug/L		12/18/24 08:27	12/20/24 13:56	1
Arsenic	<0.23		1.0	0.23	ug/L		12/18/24 08:27	12/20/24 13:56	1
Barium	<0.73		2.5	0.73	ug/L		12/18/24 08:27	12/20/24 13:56	1
Beryllium	<0.53		1.0	0.53	ug/L		12/18/24 08:27	12/20/24 13:56	1
Boron	<13		50	13	ug/L		12/18/24 08:27	12/20/24 13:56	1
Cadmium	<0.17		0.50	0.17	ug/L		12/18/24 08:27	12/20/24 13:56	1
Calcium	<44		200	44	ug/L		12/18/24 08:27	12/20/24 13:56	1
Chromium	<1.1		5.0	1.1	ug/L		12/18/24 08:27	12/20/24 13:56	1
Cobalt	<0.40		1.0	0.40	ug/L		12/18/24 08:27	12/20/24 13:56	1
Copper	<0.50		2.0	0.50	ug/L		12/18/24 08:27	12/20/24 13:56	1
Iron	<47		100	47	ug/L		12/18/24 08:27	12/20/24 13:56	1
Lead	<0.19		0.50	0.19	ug/L		12/18/24 08:27	12/20/24 13:56	1
Lithium	<2.5		10	2.5	ug/L		12/18/24 08:27	12/20/24 13:56	1
Magnesium	<49		200	49	ug/L		12/18/24 08:27	12/20/24 13:56	1
Manganese	<0.79		2.5	0.79	ug/L		12/18/24 08:27	12/20/24 13:56	1
Molybdenum	<2.5		5.0	2.5	ug/L		12/18/24 08:27	12/20/24 13:56	1
Nickel	<0.63		2.0	0.63	ug/L		12/18/24 08:27	12/20/24 13:56	1
Potassium	<110		500	110	ug/L		12/18/24 08:27	12/20/24 13:56	1
Selenium	<0.98		2.5	0.98	ug/L		12/18/24 08:27	12/20/24 13:56	1
Silver	<0.12		0.50	0.12	ug/L		12/18/24 08:27	12/20/24 13:56	1
Sodium	<77		200	77	ug/L		12/18/24 08:27	12/20/24 13:56	1
Strontium	0.765	J	4.0	0.64	ug/L		12/18/24 08:27	12/20/24 13:56	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-799880/1-A
Matrix: Water
Analysis Batch: 800415

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 799880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.57		2.0	0.57	ug/L		12/18/24 08:27	12/20/24 13:56	1
Tin	<1.3		5.0	1.3	ug/L		12/18/24 08:27	12/20/24 13:56	1
Vanadium	<2.2		5.0	2.2	ug/L		12/18/24 08:27	12/20/24 13:56	1
Zinc	<6.9		20	6.9	ug/L		12/18/24 08:27	12/20/24 13:56	1

Lab Sample ID: LCS 500-799880/2-A
Matrix: Water
Analysis Batch: 800415

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 799880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2000	1940		ug/L		97	80 - 120
Antimony	500	507		ug/L		101	80 - 120
Arsenic	100	95.2		ug/L		95	80 - 120
Barium	500	499		ug/L		100	80 - 120
Beryllium	50.0	50.7		ug/L		101	80 - 120
Boron	1000	995		ug/L		99	80 - 120
Cadmium	50.0	49.7		ug/L		99	80 - 120
Calcium	10000	8230		ug/L		82	80 - 120
Chromium	200	204		ug/L		102	80 - 120
Cobalt	500	527		ug/L		105	80 - 120
Copper	250	247		ug/L		99	80 - 120
Iron	1000	1060		ug/L		106	80 - 120
Lead	100	98.7		ug/L		99	80 - 120
Lithium	100	106		ug/L		106	80 - 120
Magnesium	10000	10400		ug/L		104	80 - 120
Manganese	500	505		ug/L		101	80 - 120
Molybdenum	1000	967		ug/L		97	80 - 120
Nickel	500	496		ug/L		99	80 - 120
Potassium	10000	10200		ug/L		102	80 - 120
Selenium	100	98.5		ug/L		99	80 - 120
Silver	50.0	50.3		ug/L		101	80 - 120
Sodium	10000	10100		ug/L		101	80 - 120
Strontium	1000	953		ug/L		95	80 - 120
Thallium	100	102		ug/L		102	80 - 120
Tin	1000	986		ug/L		99	80 - 120
Vanadium	500	506		ug/L		101	80 - 120
Zinc	500	492		ug/L		98	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-798443/3
Matrix: Water
Analysis Batch: 798443

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.45		1.0	0.45	mg/L			12/07/24 09:29	1
Chloride	<0.42		1.0	0.42	mg/L			12/07/24 09:29	1
Fluoride	<0.43		1.0	0.43	mg/L			12/07/24 09:29	1
Sulfate	<0.47		1.0	0.47	mg/L			12/07/24 09:29	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-798443/4
Matrix: Water
Analysis Batch: 798443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	20.0	19.7		mg/L		98	90 - 110
Chloride	20.0	19.1		mg/L		95	90 - 110
Fluoride	20.0	20.0		mg/L		100	90 - 110
Sulfate	20.0	20.1		mg/L		100	90 - 110

Lab Sample ID: 500-261092-1 MS
Matrix: Water
Analysis Batch: 798443

Client Sample ID: MW-1AR_20241205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.70	J	10.0	10.6		mg/L		99	80 - 120
Fluoride	0.51	J	10.0	10.1		mg/L		96	80 - 120

Lab Sample ID: 500-261092-1 MSD
Matrix: Water
Analysis Batch: 798443

Client Sample ID: MW-1AR_20241205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.70	J	10.0	10.6		mg/L		99	80 - 120	0	20
Fluoride	0.51	J	10.0	9.93		mg/L		94	80 - 120	2	20

Lab Sample ID: 500-261092-13 MS
Matrix: Water
Analysis Batch: 798443

Client Sample ID: PNC-01_20241205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	<0.45		10.0	9.68		mg/L		97	80 - 120
Chloride	1.0		10.0	10.4		mg/L		94	80 - 120
Fluoride	<0.43		10.0	9.61		mg/L		96	80 - 120
Sulfate	0.57	J	10.0	10.4		mg/L		98	80 - 120

Lab Sample ID: 500-261092-13 MSD
Matrix: Water
Analysis Batch: 798443

Client Sample ID: PNC-01_20241205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	<0.45		10.0	9.88		mg/L		99	80 - 120	2	20
Chloride	1.0		10.0	10.6		mg/L		95	80 - 120	1	20
Fluoride	<0.43		10.0	9.88		mg/L		99	80 - 120	3	20
Sulfate	0.57	J	10.0	10.6		mg/L		100	80 - 120	2	20

Lab Sample ID: MB 500-798444/3
Matrix: Water
Analysis Batch: 798444

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.37		1.0	0.37	mg/L			12/07/24 09:29	1
Nitrite as N	<0.25		1.0	0.25	mg/L			12/07/24 09:29	1
Nitrate Nitrite as N	<0.37		1.0	0.37	mg/L			12/07/24 09:29	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-798444/4
Matrix: Water
Analysis Batch: 798444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			20.0	19.1		mg/L		95	90 - 110		
Nitrite as N			20.0	19.7		mg/L		99	90 - 110		
Nitrate Nitrite as N			40.0	38.8		mg/L		97	90 - 110		

Lab Sample ID: 500-261092-1 MS
Matrix: Water
Analysis Batch: 798444

Client Sample ID: MW-1AR_20241205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	0.52	J H	2.26	2.37		mg/L		82	80 - 120		
Nitrite as N	<0.25	H	3.03	3.13		mg/L		103	80 - 120		
Nitrate Nitrite as N	0.52	J H	5.29	5.50		mg/L		94	80 - 120		

Lab Sample ID: 500-261092-1 MSD
Matrix: Water
Analysis Batch: 798444

Client Sample ID: MW-1AR_20241205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.52	J H	2.26	2.34		mg/L		81	80 - 120	1	20
Nitrite as N	<0.25	H	3.03	3.15		mg/L		104	80 - 120	1	20
Nitrate Nitrite as N	0.52	J H	5.29	5.49		mg/L		94	80 - 120	0	20

Lab Sample ID: 500-261092-13 MS
Matrix: Water
Analysis Batch: 798444

Client Sample ID: PNC-01_20241205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	0.48	J H	2.26	2.33		mg/L		82	80 - 120		
Nitrite as N	<0.25	H	3.03	2.77		mg/L		91	80 - 120		
Nitrate Nitrite as N	0.48	J H	5.29	5.10		mg/L		87	80 - 120		

Lab Sample ID: 500-261092-13 MSD
Matrix: Water
Analysis Batch: 798444

Client Sample ID: PNC-01_20241205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.48	J H	2.26	2.31		mg/L		81	80 - 120	1	20
Nitrite as N	<0.25	H	3.03	2.76		mg/L		91	80 - 120	0	20
Nitrate Nitrite as N	0.48	J H	5.29	5.07		mg/L		87	80 - 120	1	20

Lab Sample ID: MB 500-800747/3
Matrix: Water
Analysis Batch: 800747

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.42		1.0	0.42	mg/L			12/27/24 11:30	1
Sulfate	<0.47		1.0	0.47	mg/L			12/27/24 11:30	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-800747/4
Matrix: Water
Analysis Batch: 800747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.9		mg/L		99	90 - 110
Sulfate	20.0	20.1		mg/L		101	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 500-798568/1-A
Matrix: Water
Analysis Batch: 798623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 798568

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		12/09/24 10:52	12/09/24 12:42	1

Lab Sample ID: LCS 500-798568/2-A
Matrix: Water
Analysis Batch: 798623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0975		mg/L		98	90 - 110

Lab Sample ID: 500-261092-19 MS
Matrix: Water
Analysis Batch: 798623

Client Sample ID: MW-44_20241204
Prep Type: Total/NA
Prep Batch: 798568

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	<0.0036		0.100	0.0967		mg/L		97	90 - 110

Lab Sample ID: 500-261092-19 MSD
Matrix: Water
Analysis Batch: 798623

Client Sample ID: MW-44_20241204
Prep Type: Total/NA
Prep Batch: 798568

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	<0.0036		0.100	0.0959		mg/L		96	90 - 110	1	20

Lab Sample ID: MB 500-798822/1-A
Matrix: Water
Analysis Batch: 799056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 798822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0036		0.0050	0.0036	mg/L		12/11/24 13:45	12/11/24 16:23	1

Lab Sample ID: LCS 500-798822/2-A
Matrix: Water
Analysis Batch: 799056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0916		mg/L		92	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 500-800314/1-A
Matrix: Water
Analysis Batch: 800414

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 800314

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		12/20/24 11:36	12/20/24 15:56	1

Lab Sample ID: LCS 500-800314/2-A
Matrix: Water
Analysis Batch: 800414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 800314

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.10		mg/L		105	90 - 110

Lab Sample ID: MB 500-800368/1-A
Matrix: Water
Analysis Batch: 800414

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 800368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.10		0.20	0.10	mg/L		12/20/24 13:32	12/20/24 16:08	1

Lab Sample ID: LCS 500-800368/2-A
Matrix: Water
Analysis Batch: 800414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 800368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.00		mg/L		100	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 500-798546/1-A
Matrix: Water
Analysis Batch: 799336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 798546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		12/09/24 09:19	12/13/24 10:53	1

Lab Sample ID: LCS 500-798546/2-A
Matrix: Water
Analysis Batch: 799336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 798546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.939		mg/L		94	88 - 123

Lab Sample ID: 500-261092-2 MS
Matrix: Water
Analysis Batch: 799336

Client Sample ID: MW-1BR_20241205
Prep Type: Total/NA
Prep Batch: 798546

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	<0.024		1.00	0.917		mg/L		92	75 - 125

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: 500-261092-2 MSD — **Client Sample ID: MW-1BR_20241205**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 799336 — **Prep Batch: 798546**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phosphorus as P	<0.024		1.00	0.953		mg/L		95	75 - 125	4	20

Lab Sample ID: MB 500-799544/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 800190 — **Prep Batch: 799544**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	<0.024		0.050	0.024	mg/L		12/16/24 09:29	12/19/24 13:29	1

Lab Sample ID: LCS 500-799544/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 800190 — **Prep Batch: 799544**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus as P	1.00	0.902		mg/L		90	88 - 123

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-798893/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 798893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.35		5.0	3.7	mg/L			12/09/24 17:02	1
Bicarbonate Alkalinity as CaCO3	5.35		5.0	3.7	mg/L			12/09/24 17:02	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			12/09/24 17:02	1

Lab Sample ID: LCS 500-798893/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 798893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	106		mg/L		106	95 - 121

Lab Sample ID: MB 500-799502/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 799502

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	4.90	J	5.0	3.7	mg/L			12/13/24 15:46	1
Bicarbonate Alkalinity as CaCO3	4.90	J	5.0	3.7	mg/L			12/13/24 15:46	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			12/13/24 15:46	1

Lab Sample ID: LCS 500-799502/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 799502

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	95 - 121

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 500-799707/28
Matrix: Water
Analysis Batch: 799707

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	3.81	J	5.0	3.7	mg/L			12/16/24 18:36	1
Bicarbonate Alkalinity as CaCO3	3.81	J	5.0	3.7	mg/L			12/16/24 18:36	1
Carbonate Alkalinity as CaCO3	<3.7		5.0	3.7	mg/L			12/16/24 18:36	1

Lab Sample ID: LCS 500-799707/29
Matrix: Water
Analysis Batch: 799707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	107		mg/L		107	95 - 121

Method: SM 2520B - Salinity

Lab Sample ID: 500-261092-1 DU
Matrix: Water
Analysis Batch: 800476

Client Sample ID: MW-1AR_20241205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Salinity	<0.33		<0.33		psu		NC	

Lab Sample ID: 500-261092-17 DU
Matrix: Water
Analysis Batch: 800476

Client Sample ID: SMW-3SB_20241204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Salinity	<0.33		<0.33		psu		NC	

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-798853/1
Matrix: Water
Analysis Batch: 798853

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			12/10/24 22:31	1

Lab Sample ID: LCS 500-798853/2
Matrix: Water
Analysis Batch: 798853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	278		mg/L		111	80 - 120

Lab Sample ID: MB 500-798854/1
Matrix: Water
Analysis Batch: 798854

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<4.3		10	4.3	mg/L			12/11/24 00:40	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 500-798854/2
Matrix: Water
Analysis Batch: 798854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			250	260		mg/L		104	80 - 120		

Lab Sample ID: 500-261092-17 MS
Matrix: Water
Analysis Batch: 798854

Client Sample ID: SMW-3SB_20241204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	330		250	578		mg/L		98	75 - 125		

Lab Sample ID: 500-261092-17 DU
Matrix: Water
Analysis Batch: 798854

Client Sample ID: SMW-3SB_20241204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	330			338		mg/L				1	5

Lab Sample ID: 500-261092-19 DU
Matrix: Water
Analysis Batch: 798854

Client Sample ID: MW-44_20241204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	380			392		mg/L				4	5

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-798982/1
Matrix: Water
Analysis Batch: 798982

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			12/11/24 13:54	1

Lab Sample ID: LCS 500-798982/2
Matrix: Water
Analysis Batch: 798982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			200	185		mg/L		92	80 - 120		

Lab Sample ID: MB 500-799027/1
Matrix: Water
Analysis Batch: 799027

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			12/11/24 16:30	1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 500-799027/2
Matrix: Water
Analysis Batch: 799027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			200	181		mg/L		90	80 - 120		

Lab Sample ID: 500-261092-1 MS
Matrix: Water
Analysis Batch: 799027

Client Sample ID: MW-1AR_20241205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids	3.2	J	100	98.0		mg/L		95	75 - 125		

Lab Sample ID: MB 500-799175/1
Matrix: Water
Analysis Batch: 799175

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			12/12/24 12:52	1

Lab Sample ID: LCS 500-799175/2
Matrix: Water
Analysis Batch: 799175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			200	215		mg/L		108	80 - 120		

Lab Sample ID: 500-261092-2 DU
Matrix: Water
Analysis Batch: 799175

Client Sample ID: MW-1BR_20241205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	<1.9			<1.9		mg/L				NC	5

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 500-798664/1
Matrix: Water
Analysis Batch: 798664

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			12/09/24 23:25	1

Lab Sample ID: LCS 500-798664/2
Matrix: Water
Analysis Batch: 798664

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			3.76	3.76		mg/L		100	85 - 115		

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: MB 500-799026/1
Matrix: Water
Analysis Batch: 799026

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.510	J	1.0	0.23	mg/L			12/11/24 15:28	1

Lab Sample ID: LCS 500-799026/2
Matrix: Water
Analysis Batch: 799026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.76	4.19		mg/L		112	85 - 115

Lab Sample ID: MB 500-799052/1
Matrix: Water
Analysis Batch: 799052

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.23		1.0	0.23	mg/L			12/12/24 02:23	1

Lab Sample ID: LCS 500-799052/2
Matrix: Water
Analysis Batch: 799052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.76	3.59		mg/L		95	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 500-798487/7
Matrix: Water
Analysis Batch: 798487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			12/08/24 14:37	1

Lab Sample ID: LCS 500-798487/8
Matrix: Water
Analysis Batch: 798487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.1		mg/L		101	86 - 116

Lab Sample ID: MB 500-798858/7
Matrix: Water
Analysis Batch: 798858

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.47		1.0	0.47	mg/L			12/09/24 17:34	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 500-798858/8
Matrix: Water
Analysis Batch: 798858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.0		mg/L		100	86 - 116

Method: SM 5310C - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 500-798878/31
Matrix: Water
Analysis Batch: 798878

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.47		1.0	0.47	mg/L			12/11/24 07:30	1

Lab Sample ID: LCS 500-798878/32
Matrix: Water
Analysis Batch: 798878

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	10.0	10.0		mg/L		100	86 - 116

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-1AR_20241205

Lab Sample ID: 500-261092-1

Date Collected: 12/05/24 09:45

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Dissolved	Analysis	1630		1	3916	COW	EET SSM	12/13/24 23:02
Total/NA	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Total/NA	Analysis	1630		1	3916	COW	EET SSM	12/13/24 22:52
Dissolved	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 17:24
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 17:20
Dissolved	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Dissolved	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 13:39
Total Recoverable	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 13:36
Dissolved	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 16:44
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 16:03
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	6020B		1	800202	RN	EET CHI	12/19/24 11:19
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	SM 2340B		1	800101	DAJ	EET CHI	12/19/24 09:07
Total/NA	Analysis	300.0		1	798443	MM	EET CHI	12/07/24 11:33
Total/NA	Analysis	300.0		1	798444	MM	EET CHI	12/07/24 11:33
Total/NA	Analysis	300.0		5	800747	MB	EET CHI	12/27/24 13:35
Total/NA	Prep	Distill/CN			798822	AC	EET CHI	12/11/24 13:45 - 12/11/24 14:15 [1]
Total/NA	Analysis	335.4		1	799056	AC	EET CHI	12/11/24 16:33
Total/NA	Prep	Distill/Ammonia			800314	EB	EET CHI	12/20/24 11:36 - 12/20/24 12:36 [1]
Total/NA	Analysis	350.1		1	800414	EB	EET CHI	12/20/24 16:04
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 11:02
Total/NA	Analysis	SM 2320B		1	798893	SO	EET CHI	12/09/24 18:18
Total/NA	Analysis	SM 2520B		1	800476	TR	EET CHI	12/22/24 15:01
Total/NA	Analysis	SM 2540C		1	798853	CLB	EET CHI	12/10/24 23:12
Total/NA	Analysis	SM 2540D		1	799027	SO	EET CHI	12/11/24 16:37 - 12/11/24 16:40 [1]
Total/NA	Analysis	SM 4500 S2 F		1	799052	CLB	EET CHI	12/12/24 02:31 - 12/12/24 02:36 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798487	TR	EET CHI	12/08/24 23:30

Client Sample ID: MW-1BR_20241205

Lab Sample ID: 500-261092-2

Date Collected: 12/05/24 11:30

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Dissolved	Analysis	1630		1	3916	COW	EET SSM	12/13/24 23:12

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-1BR_20241205

Lab Sample ID: 500-261092-2

Date Collected: 12/05/24 11:30

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1630			3869	AJD	EET SSM	12/13/24 10:32
Total/NA	Analysis	1630		1	3916	COW	EET SSM	12/13/24 19:07
Dissolved	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 17:32
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 17:28
Dissolved	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Dissolved	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 13:43
Total Recoverable	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 13:08
Dissolved	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 16:51
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 16:21
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	SM 2340B		1	800101	DAJ	EET CHI	12/19/24 09:07
Total/NA	Analysis	300.0		1	798443	MM	EET CHI	12/07/24 12:51
Total/NA	Analysis	300.0		1	798444	MM	EET CHI	12/07/24 12:51
Total/NA	Analysis	300.0		10	800747	MB	EET CHI	12/27/24 13:50
Total/NA	Prep	Distill/CN			798822	AC	EET CHI	12/11/24 13:45 - 12/11/24 14:15 [1]
Total/NA	Analysis	335.4		1	799056	AC	EET CHI	12/11/24 16:34
Total/NA	Prep	Distill/Ammonia			800314	EB	EET CHI	12/20/24 11:36 - 12/20/24 12:36 [1]
Total/NA	Analysis	350.1		1	800414	EB	EET CHI	12/20/24 16:05
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 11:03
Total/NA	Analysis	SM 2320B		1	798893	SO	EET CHI	12/09/24 18:27
Total/NA	Analysis	SM 2520B		1	800476	TR	EET CHI	12/22/24 15:01
Total/NA	Analysis	SM 2540C		1	798853	CLB	EET CHI	12/10/24 23:14
Total/NA	Analysis	SM 2540D		1	799175	SO	EET CHI	12/12/24 12:55 - 12/12/24 12:56 [1]
Total/NA	Analysis	SM 4500 S2 F		1	799052	CLB	EET CHI	12/12/24 02:36 - 12/12/24 02:40 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798487	TR	EET CHI	12/08/24 23:58

Client Sample ID: MW-1AR_20241205_FBLL

Lab Sample ID: 500-261092-3

Date Collected: 12/05/24 09:45

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 17:36

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-1BR_20241205_FBLL

Lab Sample ID: 500-261092-4
Matrix: Water
Date Collected: 12/05/24 11:30
Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 17:40

Client Sample ID: ARC-01_20241205

Lab Sample ID: 500-261092-5
Matrix: Water
Date Collected: 12/05/24 09:10
Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3963	AJD	EET SSM	12/18/24 10:41
Dissolved	Analysis	1630		1	4029	COW	EET SSM	12/19/24 19:01
Total/NA	Prep	1630			3963	AJD	EET SSM	12/18/24 10:41
Total/NA	Analysis	1630		1	4029	COW	EET SSM	12/19/24 18:51
Dissolved	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 17:49
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 17:45
Dissolved	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Dissolved	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 13:49
Total Recoverable	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 13:46
Dissolved	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 16:54
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 16:23
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	SM 2340B		1	800101	DAJ	EET CHI	12/19/24 09:07
Total/NA	Analysis	300.0		1	798443	MM	EET CHI	12/07/24 13:07
Total/NA	Analysis	300.0		1	798444	MM	EET CHI	12/07/24 13:07
Total/NA	Prep	Distill/CN			798822	AC	EET CHI	12/11/24 13:45 - 12/11/24 14:15 [1]
Total/NA	Analysis	335.4		1	799056	AC	EET CHI	12/11/24 16:36
Total/NA	Prep	Distill/Ammonia			800314	EB	EET CHI	12/20/24 11:36 - 12/20/24 12:36 [1]
Total/NA	Analysis	350.1		1	800414	EB	EET CHI	12/20/24 16:06
Total/NA	Prep	365.2/365.3/365			799544	ST	EET CHI	12/16/24 09:29 - 12/16/24 13:29 [1]
Total/NA	Analysis	365.1		1	800190	KF	EET CHI	12/19/24 13:30
Total/NA	Analysis	SM 2320B		1	798893	SO	EET CHI	12/09/24 18:36
Total/NA	Analysis	SM 2520B		1	800476	TR	EET CHI	12/22/24 15:01
Total/NA	Analysis	SM 2540C		1	798853	CLB	EET CHI	12/10/24 23:17
Total/NA	Analysis	SM 2540D		1	799175	SO	EET CHI	12/12/24 12:58 - 12/12/24 12:59 [1]
Total/NA	Analysis	SM 4500 S2 F		1	799052	CLB	EET CHI	12/12/24 02:40 - 12/12/24 02:44 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798487	TR	EET CHI	12/09/24 00:26

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: ARC-01_20241205_FBLL

Lab Sample ID: 500-261092-6

Date Collected: 12/05/24 09:10

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 17:53

Client Sample ID: DKC-01_20241205

Lab Sample ID: 500-261092-7

Date Collected: 12/05/24 10:40

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3963	AJD	EET SSM	12/18/24 10:41
Dissolved	Analysis	1630		1	4029	COW	EET SSM	12/19/24 19:21
Total/NA	Prep	1630			3963	AJD	EET SSM	12/18/24 10:41
Total/NA	Analysis	1630		1	4029	COW	EET SSM	12/19/24 19:11
Dissolved	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 18:09
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 17:57
Dissolved	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Dissolved	Analysis	1638		1	4231	V1R	EET SSM	12/31/24 12:43
Total Recoverable	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 13:53
Dissolved	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 16:56
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 16:26
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	SM 2340B		1	800101	DAJ	EET CHI	12/19/24 09:07
Total/NA	Analysis	300.0		1	798443	MM	EET CHI	12/07/24 13:23
Total/NA	Analysis	300.0		1	798444	MM	EET CHI	12/07/24 13:23
Total/NA	Prep	Distill/CN			798822	AC	EET CHI	12/11/24 13:45 - 12/11/24 14:15 [1]
Total/NA	Analysis	335.4		1	799056	AC	EET CHI	12/11/24 16:38
Total/NA	Prep	Distill/Ammonia			800314	EB	EET CHI	12/20/24 11:36 - 12/20/24 12:36 [1]
Total/NA	Analysis	350.1		1	800414	EB	EET CHI	12/20/24 16:06
Total/NA	Prep	365.2/365.3/365			799544	ST	EET CHI	12/16/24 09:29 - 12/16/24 13:29 [1]
Total/NA	Analysis	365.1		1	800190	KF	EET CHI	12/19/24 13:31
Total/NA	Analysis	SM 2320B		1	798893	SO	EET CHI	12/09/24 18:44
Total/NA	Analysis	SM 2520B		1	800476	TR	EET CHI	12/22/24 15:01
Total/NA	Analysis	SM 2540C		1	798853	CLB	EET CHI	12/10/24 23:20
Total/NA	Analysis	SM 2540D		1	799175	SO	EET CHI	12/12/24 12:59 - 12/12/24 13:01 [1]
Total/NA	Analysis	SM 4500 S2 F		1	799052	CLB	EET CHI	12/12/24 02:44 - 12/12/24 02:49 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798858	TR	EET CHI	12/09/24 18:58

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: DKC-01_20241205_FBLL

Lab Sample ID: 500-261092-8

Date Collected: 12/05/24 10:40
Matrix: Water
Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 18:14

Client Sample ID: MW-43_20241204

Lab Sample ID: 500-261092-9

Date Collected: 12/04/24 11:40
Matrix: Water
Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3963	AJD	EET SSM	12/18/24 10:41
Dissolved	Analysis	1630		1	4029	COW	EET SSM	12/19/24 20:02
Total/NA	Prep	1630			3963	AJD	EET SSM	12/18/24 10:41
Total/NA	Analysis	1630		1	4029	COW	EET SSM	12/19/24 19:52
Dissolved	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 18:22
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 18:18
Dissolved	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Dissolved	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 14:10
Total Recoverable	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 14:07
Dissolved	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 16:59
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 16:28
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	SM 2340B		1	800101	DAJ	EET CHI	12/19/24 09:07
Total/NA	Analysis	300.0		1	798443	MM	EET CHI	12/07/24 10:00
Total/NA	Analysis	300.0		1	798444	MM	EET CHI	12/07/24 10:00
Total/NA	Prep	Distill/CN			798568	AC	EET CHI	12/09/24 10:52 - 12/09/24 11:22 [1]
Total/NA	Analysis	335.4		1	798623	AC	EET CHI	12/09/24 13:04
Total/NA	Prep	Distill/Ammonia			800314	EB	EET CHI	12/20/24 11:36 - 12/20/24 12:36 [1]
Total/NA	Analysis	350.1		1	800414	EB	EET CHI	12/20/24 16:07
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 10:59
Total/NA	Analysis	SM 2320B		1	798893	SO	EET CHI	12/09/24 18:53
Total/NA	Analysis	SM 2520B		1	800476	TR	EET CHI	12/22/24 15:01
Total/NA	Analysis	SM 2540C		1	798853	CLB	EET CHI	12/10/24 23:22
Total/NA	Analysis	SM 2540D		1	798982	SO	EET CHI	12/11/24 15:09 - 12/11/24 15:13 [1]
Total/NA	Analysis	SM 4500 S2 F		1	798664	CLB	EET CHI	12/10/24 00:30 - 12/10/24 00:34 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798858	TR	EET CHI	12/09/24 19:26

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-43_20241204_FBLL

Lab Sample ID: 500-261092-10
Matrix: Water
Date Collected: 12/04/24 11:40
Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 18:26

Client Sample ID: FB-01-SW_20241204

Lab Sample ID: 500-261092-11
Matrix: Water
Date Collected: 12/04/24 17:20
Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1630			3963	AJD	EET SSM	12/18/24 10:41
Total/NA	Analysis	1630		1	4029	COW	EET SSM	12/19/24 20:12
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 18:30
Total Recoverable	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 14:14
Total Recoverable	Prep	3005A			799880	BDE	EET CHI	12/18/24 08:27 - 12/18/24 14:27 [1]
Total Recoverable	Analysis	6020B		1	800415	RN	EET CHI	12/20/24 15:26
Total Recoverable	Prep	3005A			799880	BDE	EET CHI	12/18/24 08:27 - 12/18/24 14:27 [1]
Total Recoverable	Analysis	SM 2340B		1	800101	DAJ	EET CHI	12/23/24 08:53
Total/NA	Analysis	300.0		1	798443	MM	EET CHI	12/07/24 10:15
Total/NA	Analysis	300.0		1	798444	MM	EET CHI	12/07/24 10:15
Total/NA	Prep	Distill/CN			798568	AC	EET CHI	12/09/24 10:52 - 12/09/24 11:22 [1]
Total/NA	Analysis	335.4		1	798623	AC	EET CHI	12/09/24 13:06
Total/NA	Prep	Distill/Ammonia			800314	EB	EET CHI	12/20/24 11:36 - 12/20/24 12:36 [1]
Total/NA	Analysis	350.1		1	800414	EB	EET CHI	12/20/24 16:07
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 11:00
Total/NA	Analysis	SM 2320B		1	799502	SO	EET CHI	12/13/24 16:29
Total/NA	Analysis	SM 2520B		1	800476	TR	EET CHI	12/22/24 15:01
Total/NA	Analysis	SM 2540C		1	798853	CLB	EET CHI	12/10/24 23:25
Total/NA	Analysis	SM 2540D		1	798982	SO	EET CHI	12/11/24 15:13 - 12/11/24 15:18 [1]
Total/NA	Analysis	SM 4500 S2 F		1	798664	CLB	EET CHI	12/10/24 00:34 - 12/10/24 00:37 [1]
Total/NA	Analysis	SM 5310C		1	798858	TR	EET CHI	12/09/24 19:54

Client Sample ID: FB-01-SW_20241204_FBLL

Lab Sample ID: 500-261092-12
Matrix: Water
Date Collected: 12/04/24 17:20
Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 18:34

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: PNC-01_20241205

Lab Sample ID: 500-261092-13

Date Collected: 12/05/24 11:40

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3963	AJD	EET SSM	12/18/24 10:41
Dissolved	Analysis	1630		1	4029	COW	EET SSM	12/19/24 20:33
Total/NA	Prep	1630			3963	AJD	EET SSM	12/18/24 10:41
Total/NA	Analysis	1630		1	4029	COW	EET SSM	12/19/24 20:22
Dissolved	Analysis	1631E		1	4086	CL	EET SSM	12/23/24 14:56
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 18:38
Dissolved	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Dissolved	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 14:21
Total Recoverable	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Total Recoverable	Analysis	1638		1	4231	V1R	EET SSM	12/31/24 12:47
Dissolved	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 17:01
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 16:31
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	SM 2340B		1	800101	DAJ	EET CHI	12/19/24 09:07
Total/NA	Analysis	300.0		1	798443	MM	EET CHI	12/07/24 13:38
Total/NA	Analysis	300.0		1	798444	MM	EET CHI	12/07/24 13:38
Total/NA	Prep	Distill/CN			798822	AC	EET CHI	12/11/24 13:45 - 12/11/24 14:15 [1]
Total/NA	Analysis	335.4		1	799056	AC	EET CHI	12/11/24 16:44
Total/NA	Prep	Distill/Ammonia			800368	EB	EET CHI	12/20/24 13:32 - 12/20/24 14:32 [1]
Total/NA	Analysis	350.1		1	800414	EB	EET CHI	12/20/24 16:08
Total/NA	Prep	365.2/365.3/365			799544	ST	EET CHI	12/16/24 09:29 - 12/16/24 13:29 [1]
Total/NA	Analysis	365.1		1	800190	KF	EET CHI	12/19/24 13:31
Total/NA	Analysis	SM 2320B		1	799707	SO	EET CHI	12/16/24 15:49
Total/NA	Analysis	SM 2520B		1	800476	TR	EET CHI	12/22/24 15:01
Total/NA	Analysis	SM 2540C		1	798853	CLB	EET CHI	12/10/24 23:27
Total/NA	Analysis	SM 2540D		1	799175	SO	EET CHI	12/12/24 13:01 - 12/12/24 13:02 [1]
Total/NA	Analysis	SM 4500 S2 F		1	799052	CLB	EET CHI	12/12/24 02:49 - 12/12/24 02:53 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798858	TR	EET CHI	12/09/24 20:22

Client Sample ID: PNC-01_20241205_FBLL

Lab Sample ID: 500-261092-14

Date Collected: 12/05/24 11:40

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 19:21

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: SMW-3_20241204

Lab Sample ID: 500-261092-15

Date Collected: 12/04/24 11:00

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3963	AJD	EET SSM	12/18/24 10:41
Dissolved	Analysis	1630		1	4029	COW	EET SSM	12/19/24 20:53
Total/NA	Prep	1630			3963	AJD	EET SSM	12/18/24 10:41
Total/NA	Analysis	1630		1	4029	COW	EET SSM	12/19/24 20:43
Dissolved	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 19:30
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 19:25
Dissolved	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Dissolved	Analysis	1638		1	4231	V1R	EET SSM	12/31/24 12:54
Total Recoverable	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Total Recoverable	Analysis	1638		1	4231	V1R	EET SSM	12/31/24 12:50
Dissolved	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 17:04
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 16:33
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	SM 2340B		1	800101	DAJ	EET CHI	12/19/24 09:07
Total/NA	Analysis	300.0		1	798443	MM	EET CHI	12/07/24 10:31
Total/NA	Analysis	300.0		1	798444	MM	EET CHI	12/07/24 10:31
Total/NA	Prep	Distill/CN			798568	AC	EET CHI	12/09/24 10:52 - 12/09/24 11:22 [1]
Total/NA	Analysis	335.4		1	798623	AC	EET CHI	12/09/24 13:08
Total/NA	Prep	Distill/Ammonia			800368	EB	EET CHI	12/20/24 13:32 - 12/20/24 14:32 [1]
Total/NA	Analysis	350.1		1	800414	EB	EET CHI	12/20/24 16:09
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 11:00
Total/NA	Analysis	SM 2320B		1	798893	SO	EET CHI	12/09/24 19:15
Total/NA	Analysis	SM 2520B		1	800476	TR	EET CHI	12/22/24 15:01
Total/NA	Analysis	SM 2540C		1	798853	CLB	EET CHI	12/10/24 23:30
Total/NA	Analysis	SM 2540D		1	798982	SO	EET CHI	12/11/24 15:18 - 12/11/24 15:22 [1]
Total/NA	Analysis	SM 4500 S2 F		1	798664	CLB	EET CHI	12/10/24 00:37 - 12/10/24 00:41 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798858	TR	EET CHI	12/09/24 20:50

Client Sample ID: SMW-3_20241204_FBLL

Lab Sample ID: 500-261092-16

Date Collected: 12/04/24 11:00

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 19:34

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: SMW-3SB_20241204

Lab Sample ID: 500-261092-17

Date Collected: 12/04/24 17:00

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			3963	AJD	EET SSM	12/18/24 10:41
Dissolved	Analysis	1630		1	4029	COW	EET SSM	12/19/24 21:13
Total/NA	Prep	1630			3963	AJD	EET SSM	12/18/24 10:41
Total/NA	Analysis	1630		1	4029	COW	EET SSM	12/19/24 21:03
Dissolved	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 19:42
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 19:38
Dissolved	Prep	1638			4158	D1C	EET SSM	12/27/24 17:34
Dissolved	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 15:23
Total Recoverable	Prep	1638			4157	D1C	EET SSM	12/27/24 17:34
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 14:31
Dissolved	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 17:06
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 16:36
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	SM 2340B		1	800101	DAJ	EET CHI	12/19/24 09:07
Total/NA	Analysis	300.0		1	798443	MM	EET CHI	12/07/24 10:46
Total/NA	Analysis	300.0		1	798444	MM	EET CHI	12/07/24 10:46
Total/NA	Analysis	300.0		10	800747	MB	EET CHI	12/27/24 14:37
Total/NA	Prep	Distill/CN			798568	AC	EET CHI	12/09/24 10:52 - 12/09/24 11:22 [1]
Total/NA	Analysis	335.4		1	798623	AC	EET CHI	12/09/24 13:10
Total/NA	Prep	Distill/Ammonia			800368	EB	EET CHI	12/20/24 13:32 - 12/20/24 14:32 [1]
Total/NA	Analysis	350.1		1	800414	EB	EET CHI	12/20/24 16:09
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 11:00
Total/NA	Analysis	SM 2320B		1	798893	SO	EET CHI	12/09/24 19:26
Total/NA	Analysis	SM 2520B		1	800476	TR	EET CHI	12/22/24 15:01
Total/NA	Analysis	SM 2540C		1	798854	CLB	EET CHI	12/11/24 00:45
Total/NA	Analysis	SM 2540D		1	798982	SO	EET CHI	12/11/24 15:22 - 12/11/24 15:27 [1]
Total/NA	Analysis	SM 4500 S2 F		1	798664	CLB	EET CHI	12/10/24 00:41 - 12/10/24 00:44 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798858	TR	EET CHI	12/09/24 21:18

Client Sample ID: SMW-3SB_20241204_FBLL

Lab Sample ID: 500-261092-18

Date Collected: 12/04/24 17:00

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 19:54

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: MW-44_20241204

Lab Sample ID: 500-261092-19

Date Collected: 12/04/24 10:20

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			4026	JS	EET SSM	12/20/24 11:36
Dissolved	Analysis	1630		1	4067	COW	EET SSM	12/20/24 21:38
Total/NA	Prep	1630			3963	AJD	EET SSM	12/18/24 10:41
Total/NA	Analysis	1630		1	4029	COW	EET SSM	12/19/24 21:24
Dissolved	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 20:03
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 19:59
Dissolved	Prep	1638			4158	D1C	EET SSM	12/27/24 17:34
Dissolved	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 15:30
Total Recoverable	Prep	1638			4158	D1C	EET SSM	12/27/24 17:34
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 15:26
Dissolved	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 17:09
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 16:38
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	SM 2340B		1	800101	DAJ	EET CHI	12/19/24 09:07
Total/NA	Analysis	300.0		1	798443	MM	EET CHI	12/07/24 11:02
Total/NA	Analysis	300.0		1	798444	MM	EET CHI	12/07/24 11:02
Total/NA	Analysis	300.0		10	800747	MB	EET CHI	12/27/24 14:53
Total/NA	Prep	Distill/CN			798568	AC	EET CHI	12/09/24 10:52 - 12/09/24 11:22 [1]
Total/NA	Analysis	335.4		1	798623	AC	EET CHI	12/09/24 13:11
Total/NA	Prep	Distill/Ammonia			800368	EB	EET CHI	12/20/24 13:32 - 12/20/24 14:32 [1]
Total/NA	Analysis	350.1		1	800414	EB	EET CHI	12/20/24 16:10
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 11:02
Total/NA	Analysis	SM 2320B		1	798893	SO	EET CHI	12/09/24 19:34
Total/NA	Analysis	SM 2520B		1	800476	TR	EET CHI	12/22/24 15:01
Total/NA	Analysis	SM 2540C		1	798854	CLB	EET CHI	12/11/24 00:52
Total/NA	Analysis	SM 2540D		1	798982	SO	EET CHI	12/11/24 15:27 - 12/11/24 15:31 [1]
Total/NA	Analysis	SM 4500 S2 F		1	798664	CLB	EET CHI	12/10/24 00:44 - 12/10/24 00:48 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798858	TR	EET CHI	12/09/24 21:46

Client Sample ID: MW-44_20241204_FBLL

Lab Sample ID: 500-261092-20

Date Collected: 12/04/24 10:20

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 20:07

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Client Sample ID: ARC-02_20241204

Lab Sample ID: 500-261092-21

Date Collected: 12/04/24 15:30

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	1630			4026	JS	EET SSM	12/20/24 11:36
Dissolved	Analysis	1630		1	4067	COW	EET SSM	12/20/24 21:58
Total/NA	Prep	1630			4026	JS	EET SSM	12/20/24 11:36
Total/NA	Analysis	1630		1	4067	COW	EET SSM	12/20/24 21:48
Dissolved	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 20:15
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 20:11
Dissolved	Prep	1638			4158	D1C	EET SSM	12/27/24 17:34
Dissolved	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 15:37
Total Recoverable	Prep	1638			4158	D1C	EET SSM	12/27/24 17:34
Total Recoverable	Analysis	1638		1	4216	V1R	EET SSM	12/30/24 15:33
Dissolved	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Dissolved	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 17:11
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	6020B		1	800085	RN	EET CHI	12/18/24 16:41
Total Recoverable	Prep	3005A			799690	BDE	EET CHI	12/17/24 08:19 - 12/17/24 14:19 [1]
Total Recoverable	Analysis	SM 2340B		1	800101	DAJ	EET CHI	12/19/24 09:07
Total/NA	Analysis	300.0		1	798443	MM	EET CHI	12/07/24 11:18
Total/NA	Analysis	300.0		1	798444	MM	EET CHI	12/07/24 11:18
Total/NA	Prep	Distill/CN			798568	AC	EET CHI	12/09/24 10:52 - 12/09/24 11:22 [1]
Total/NA	Analysis	335.4		1	798623	AC	EET CHI	12/09/24 13:17
Total/NA	Prep	Distill/Ammonia			800368	EB	EET CHI	12/20/24 13:32 - 12/20/24 14:32 [1]
Total/NA	Analysis	350.1		1	800414	EB	EET CHI	12/20/24 16:11
Total/NA	Prep	365.2/365.3/365			798546	ST	EET CHI	12/09/24 09:19 - 12/09/24 13:19 [1]
Total/NA	Analysis	365.1		1	799336	KF	EET CHI	12/13/24 11:02
Total/NA	Analysis	SM 2320B		1	799502	SO	EET CHI	12/13/24 16:32
Total/NA	Analysis	SM 2520B		1	800476	TR	EET CHI	12/22/24 15:01
Total/NA	Analysis	SM 2540C		1	798854	CLB	EET CHI	12/11/24 00:58
Total/NA	Analysis	SM 2540D		1	798982	SO	EET CHI	12/11/24 15:31 - 12/11/24 15:36 [1]
Total/NA	Analysis	SM 4500 S2 F		1	799026	TR	EET CHI	12/11/24 15:39 - 12/11/24 15:45 [1]
Dissolved	Analysis	SM 5310C		1	798878	TR	EET CHI	12/11/24 07:30
Total/NA	Analysis	SM 5310C		1	798858	TR	EET CHI	12/09/24 23:10

Client Sample ID: ARC-02_20241204_FBLL

Lab Sample ID: 500-261092-22

Date Collected: 12/04/24 15:30

Matrix: Water

Date Received: 12/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	3995	COW	EET SSM	12/18/24 20:19

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pines, MI

Job ID: 500-261092-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	100201	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-25
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24 *
South Carolina	State	77001003	05-31-25
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-25
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-25
ANAB	ISO/IEC 17025	L2236	01-19-25
California	State	2954	07-07-25
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
Maine	State	WA01273	05-02-26
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-25
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	07-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4221 9522 2237	COC No: 500-130281-50241 40
Client Contact: Amanda Zeidler	Phone: 906 ... 7454	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper LLC	PWSID:			Job #: 500-261092
Address: 35362 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu.com	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site: White Pine North Baseline Sampling	SSOW#:			

Analysis Requested

Preservation Codes
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A - HCL

Other: 500-261092 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) - tripli	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS)	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury	6020B - Dissolved Metals (ICP/MS) - 27 elements	1638 - Dissolved Uranium only (ICP/MS) (field f	1631E - Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME - Dissolved Methyl Mercury (field filtered)	5310C - TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A	S		
MW 1AR_20241205	12 5 24	945	6	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X	22	
MW 1BR_2024 1205	12 5 24	1130	6	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X	22	
MW 1AR_20241205_FBLL	12 5 24	945	6	Water										X							2	
MW 1BR_20241205_FBLL	12 5 24	~~945~~ 1130	6	Water										X							2	
				Water																		
				Water																		
				Water																		
				Water																		
				Water																		
				Water																		
				Water																		

1 2 3 4

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, [II], III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	12-05-24/ 1300	MSG	4221 9522 2237	12-05-24/1300	FedEx
2		Date/Time:	Company	Received by: Stephanie Hernandez	12/6/24 0935	EEN
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 4.3+4.2, 5.6+5.5, 4.8+4.7 5.7+5.6, 2.4+2.3, 4.0+3.9

12/31/2024

Ver: 05/06/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Cappernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 422195221642	COC No: 500-130281-50241 40
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper LLC	PWSID:			Job #: 500-261092
Address: 35362 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site: White Pine North Baseline Sampling	SSOW#:			

Analysis Requested

Preservation Codes:
S H2SO4
N - None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) - tripli	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS)	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury	6020B - Dissolved Metals (ICP/MS) - 27 elements	1638 - Dissolved Uranium only (ICP/MS) (field f	1631E - Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME - Dissolved Methyl Mercury (field filtered)	5310C - TOC	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A	S		
5	ARC-01_20241205	12-5-24	09:10	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X	22	
6	ARC-01_20241205_FBLL	12-5-24	09:10	G	Water										X							2	
7	DKC-01_20241205	12-5-24	10:40	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X	22	
8	DKC-01_20241205_FBLL	12-5-24	10:40	G	Water										X							2	
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		12-5-24 11:20	MSG		12-5-24 11:20	MSG
2		12-5-24 11:40	MSG	FedEx 422195221642	12-5-24	
3				Stephanie Hernandez	12/6/24 0935	EETA

Custody Seals Intact. Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4221 95221664	COC No: 500-130281-50241 40
Client Contact: Amanda Zeidler	Phone: 517-513 2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper LLC	PWSID:			Job #: 500-261092
Address: 35362 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site: White Pine North Baseline Sampling	SSOW#:			

Analysis Requested

Preservation Codes:
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A - HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) - tripli	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS)	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury	6020B - Dissolved Metals (ICP/MS) - 27 elements	1638 - Dissolved Uranium only (ICP/MS) (field f	1631E - Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME - Dissolved Methyl Mercury (field filtered)	5310C - TOC	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A	S		
9	MW-43_20241204	12-4-24	11:40	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X	22	
10	MW-43_20241204_FBLL	12-4-24	11:40	G	Water										X							2	
11	FB-01-SW_20241204	12-4-24	17:20	G	Water			X	X	X	X		X	X	X	X					X	14	
12	FB-01-SW-20241204_FBLL	12-4-24	17:20	G	Water										X							2	
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority Overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ellen	12-4-24 17:20	MSG		12-4-24 17:20	MSG
2		12-5-24 09:00	MSG	FedEx 4221 95221664	12-5-24 09:00	
3		Date/Time	Company	Received by: Stephanie Hernandez	12/6/24 0935	EETA

Custody Seals Intact Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 422195221631	COC No: 500-130281-50241 40
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper LLC	PWSID:	Analysis Requested		Job #: 500-261092
Address: 35362 Mall Circle Drive	Due Date Requested:			Preservation Codes: S H2SO4, N None, CB ZnAcetate/NaOH, B NaOH, D HNO3, A HCL
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site: White Pine North Baseline Sampling	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) - tripli	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS)	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury	6020B - Dissolved Metals (ICP/MS) - 27 elements	1638 - Dissolved Uranium only (ICP/MS) (field f	1631E - Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME - Dissolved Methyl Mercury (field filtered)	5310C - TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A	S		
13 PNC-01_20241205	12-05-24	1140	G	Water			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22	
14 PNC-01_20241205_FBLL	12-05-24	1140	G	Water										✓							2	
				Water																		
				Water																		
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				Water																		
				Water																		
				Water																		
				Water																		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Ellen	12-05-24 / 13:00	MSG	4221 9522 1631	12-05-24 / 13.00	Fedex
Relinquished by:	Date/Time:	Company	Received by: Stephanie Hemond	12/6/24 0935	EETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jacob Dean	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 4221 9522 1653	COC No: 500-130281-50241 36
Client Contact: Amanda Zeidler	Phone: 906-487-7454	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper LLC	PWSID:			Job #: 500-261092
Address: 35362 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site: White Pine North Baseline Sampling	SSOW#:			

Analysis Requested

Preservation Codes:
S H2SO4
N None
CB - ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365 1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) - tripli	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS)	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury	6020B - Dissolved Metals (ICP/MS) - 27 elements	1638 - Dissolved Uranium only (ICP/MS) (field f	1631E - Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME - Dissolved Methyl Mercury (field filtered)	5310C - TOC	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A	S		
15	SMW-3_20241204	12-4-24	11:00	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X		
16	SMW-3_20241204_FBLL	12-4-24	11:00	G	Water										X								
17	SMW-35B_20241204	12-4-24	17:00	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X		
18	SMW-35B_20241204_FBLL	12-4-24	17:00	G	Water										X								
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, ☒ II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment: FedEx Priority overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jacob Dean	12-4-24 18:45	MSG		12-4-24 18:45	MSG
2		12-5-24 08:30	MSG	FedEx 4221 9522 1653	12-5-24 0870	
3				Stephanie Hernandez	12/6/24 0935	EEA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ellen Coppernoll	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 422195221675	COC No: 500-130281-50241 28
Client Contact: Amanda Zeidler	Phone: 517-513-2249	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: Michigan	Page: Page 1 of 1
Company: White Pine Copper LLC	PWSID:			Job #: 600-241092
Address: 35362 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): 10 days			
State, Zip: MI, 49971	Compliance Project: Δ Yes Δ No			
Phone: 906-204-6500	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pines, MI	Project #: 50023455			
Site: White Pine North Baseline Sampling	SSOW#:			

Analysis Requested

Preservation Codes:
S H2SO4
N None
CB ZnAcetate/NaOH
B NaOH
D HNO3
A HCL
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 Ammonia, 365.1 Phos	2320B, 2540C, 2540D, 300.0_28D, 300_48HR, SM2520_B	SM4500_S2_F - Sulfide, Total	335.4 - Cyanide, Total	SM5310_DOC_C - Organic Carbon, Dissolved (DOC) - tripli	6020B, SM2340B Total Metals / Hardness	1638 - Uranium only (ICP/MS)	1631E - Mercury, Low Level (CVAFS)	1630_ME - Methyl Mercury	6020B - Dissolved Metals (ICP/MS) - 27 elements	1638 - Dissolved Uranium only (ICP/MS) (field f	1631E - Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME - Dissolved Methyl Mercury (field filtered)	5310C - TOC	Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	CB	B	S	D	D	N	A	D	D	N	A	S		
19	MW-44_20241204	12-4-24	10:20	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X	22	
20	MW-44_20241204_FBLL	12-4-24	10:20	G	Water										X							2	
21	ARC-02_20241204	12-4-24	15:30	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	X	22	
22	ARC-02_20241204_FBLL	12-4-24	15:30	G	Water										X							2	
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		
					Water																		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements MDLs must meet Michigan requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: FedEx Priority, overnight

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		12-4-24 17:15	MSG		12-4-24 17:15	MSG
2		12-5-24 09:15	MSG	FedEx 422195221675	12-5-24 09:15	
3		Date/Time:	Company	Stephanie Hernandez	12/6/24 0935	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks.

JEU CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3855

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF
DEPT

RMA

FedEx Express

J243024070401ux

TRK# 0221 4221 9522 1631

RETURNS MON-SAT
PRIORITY OVERNIGHT

FedEx
TRK# 0221 4221 9522 1631

FRI - 06 DEC 12:00P
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD

EXP 07/24

JEU CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3855

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF
DEPT

RMA

FedEx Express

J243024070401ux

TRK# 0221 4221 9522 2237

RETURNS MON-SAT
PRIORITY OVERNIGHT

60484
IL-US

500-261092 Waybi


JED CARESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3855
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
REF
INV:
PO:
DEPT:
RMA
FedEx
Express
RETURNS MON-SA
FRI - 06 DEC 12:00P
PRIORITY OVERNIGHT
TRK# 4221 9522 1642
0221
60484
IL-US
ORD
79 JOTA
EXP 07/24
#6083980 12/05 58CJ4/EB78/C6C4


JED CARESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3855
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
REF
INV:
PO:
DEPT
RMA
FedEx
Express
FedEx
TRK# 4221 9522 1653
0221
FRI - 06 DEC AA
PRIORITY OVERNIGHT
60484
IL-US
ORD
79 JOTA
6Dec2024 MKER 58IG4/EB78/5FE5


JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3855
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
REF
INV:
PO:
DEPT
RMA
FedEx Express
J243024070401uv
TRK# 4221 9522 1675
RETURNS MON-SAT
FRI - 06
PRIORITY
79 JOTA


JED CHRESTENSEN
THE MANNIK & SMITH GROUP
616 SHELDEN AVE
SUITE 210
HOUGHTON, MI 49931
UNITED STATES US
ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3855
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 534-5200
REF
INV:
PO:
DEPT
RMA
FedEx Express
J243024070401uv
FedEx
TRK# 4221 9522 1664
FRI - 06 DEC AA
PRIORITY OVERNIGHT
60484
IL-US
ORD
79 JOTA
5197874 05Dec2024 MKFR 5A1G4/ER78/5FE5

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

Therm. ID: SC0 22 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 3.9 / 2.4 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: R2 Packing: D

Therm. ID: SC0 12 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 14.9 / 13.5 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: L Packing: B

Therm. ID: SC0 3 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 10.0 / 9.9 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: N Packing: D

Therm. ID: SC0 4 Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.4 / 0.1 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / Wet / None
Label Ver.: ____ Packing: D

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fredrick, Sandie	Carrier Tracking No: N/A
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): N/A	
Address: 5755 8th Street East, ,	Due Date Requested: 12/30/2024		
City: Tacoma	TAT Requested (days): N/A		
State, Zip: WA, 98424			
Phone: 253-922-2310(Tel)	PO #: N/A		
Email: N/A	WO #: N/A		
Project Name: White Pines, MI	Project #: 50023455		
Site: N/A	SSOW#: N/A		

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Numb	Special
Preservation Code:														
MW-1AR_20241205 (500-261092-1)	12/5/24	09:45 Eastern	G	Water			X	X	X	X	X	X	8	
MW-1BR_20241205 (500-261092-2)	12/5/24	11:30 Eastern	G	Water			X	X	X	X	X	X	8	
MW-1AR_20241205_FBLL (500-261092-3)	12/5/24	09:45 Eastern	G	Water				X					2	
MW-1BR_20241205_FBLL (500-261092-4)	12/5/24	11:30 Eastern	G	Water				X					2	
ARC-01_20241205 (500-261092-5)	12/5/24	09:10 Eastern	G	Water			X	X	X	X	X	X	8	
ARC-01_20241205_FBLL (500-261092-6)	12/5/24	09:10 Eastern	G	Water				X					2	
DKC-01_20241205 (500-261092-7)	12/5/24	10:40 Eastern	G	Water			X	X	X	X	X	X	8	
DKC-01_20241205_FBLL (500-261092-8)	12/5/24	10:40 Eastern	G	Water				X					2	
MW-43_20241204 (500-261092-9)	12/4/24	11:40 Eastern	G	Water			X	X	X	X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Stephanie Hemandez	12/6/24 11:00			12-7-24 0920	EEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: IR11 13.9/14.9

Ver: 10/10/2024

12/31/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): N/A	COC No: 500-195956.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 3
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): N/A		Job #: 500-261092-1
Address: 5755 8th Street East, ,	Due Date Requested: 12/30/2024			Preservation Codes: -
City: Tacoma	TAT Requested (days): N/A			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: White Pines, MI	Project #: 50023455			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-43_20241204_FBLL (500-261092-10)	12/4/24	11:40 Eastern	G	Water				X					2	
FB-01-SW_20241204 (500-261092-11)	12/4/24	17:20 Eastern	G	Water			X	X	X				4	
FB-01-SW_20241204_FBLL (500-261092-12)	12/4/24	17:20 Eastern	G	Water				X					2	
PNC-01_20241205 (500-261092-13)	12/5/24	11:40 Eastern	G	Water			X	X	X	X	X	X	8	
PNC-01_20241205_FBLL (500-261092-14)	12/5/24	11:40 Eastern	G	Water				X					2	
SMW-3_20241204 (500-261092-15)	12/4/24	11:00 Eastern	G	Water			X	X	X	X	X	X	8	
SMW-3_20241204_FBLL (500-261092-16)	12/4/24	11:00 Eastern	G	Water				X					2	
SMW-35B_20241204 (500-261092-17)	12/4/24	17:00 Eastern	G	Water			X	X	X	X	X	X	8	
SMW-35B_20241204_FBLL (500-261092-18)	12/4/24	17:00 Eastern	G	Water				X					2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Stephanie Hernandez	12/6/24 1600			12-7-24 0920	EEtn
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: IR11 13.9/14.9

Ver: 10/10/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): N/A	COC No: 500-195956.3
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Michigan	Page: Page 3 of 3
Company: Eurofins Environment Testing Northwest,		Accreditations Required (See note): N/A		Job #: 500-261092-1
Address: 5755 8th Street East, ,	Due Date Requested: 12/30/2024			
City: Tacoma	TAT Requested (days): N/A			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: White Pines, MI	Project #: 50023455			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1638/1638_Prep_W Uranium only (ICP/MS)	1631E/ Mercury, Low Level (CVAFS)	1630_ME/1630_Dist_PFP Methyl Mercury	1638/FIELD_FLTRD Dissolved Uranium only (ICP/MS) (field f	1631E/FIELD_FLTRD Dissolved Mercury, Low Level (CVAFS) (fi	1630_ME/FIELD_FLTRD Dissolved Methyl Mercury (field filtered	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-44_20241204 (500-261092-19)	12/4/24	10:20 Eastern	G	Water			X	X	X	X	X	X	8	
MW-44_20241204_FBLL (500-261092-20)	12/4/24	10:20 Eastern	G	Water				X					2	
ARC-02_20241204 (500-261092-21)	12/4/24	15:30 Eastern	G	Water			X	X	X	X	X	X	8	
ARC-02_20241204_FBLL (500-261092-22)	12/4/24	15:30 Eastern	G	Water				X					2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Stephanie Hernandez	Date/Time: 12/16/24 1600	Company	Received by:	Date/Time: 12-17-24 0920	Company: EEtn
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: IR11 13.9/14.9

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-261092-1

Login Number: 261092
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2,5.5,4.7,5.6,2.3,3.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-261092-1

Login Number: 261092
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 12/09/24 01:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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500-261092 Field Sheet

Date:	12/9/2024
End Time:	13:30
KI Paper Lot:	na
Analyst:	IZ

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	42322
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-261092-A-1	A	Y	.8	2	
500-261092-B-1	A	Y	.8	2	
500-261092-C-1	A	Y	.8	2	
500-261092-D-1	A	Y	.8	2	
500-261092-A-2	A	Y	.8	2	
500-261092-B-2	A	Y	.8	2	
500-261092-C-2	A	Y	.8	2	
500-261092-D-2	A	Y	.8	2	
500-261092-A-3	A	Y	.8	2	
500-261092-B-3	A	Y	.8	2	
500-261092-A-4	A	Y	.8	2	
500-261092-B-4	A	Y	.8	2	
500-261092-A-5	A	Y	.8	2	
500-261092-B-5	A	Y	.8	2	
500-261092-C-5	A	Y	.8	2	
500-261092-D-5	A	Y	.8	2	
500-261092-A-6	A	Y	.8	2	
500-261092-B-6	A	Y	.8	2	
500-261092-A-7	A	Y	.8	2	
500-261092-B-7	A	Y	.8	2	
500-261092-C-7	A	Y	.8	2	
500-261092-D-7	A	Y	.8	2	
500-261092-A-8	A	Y	.8	2	
500-261092-B-8	A	Y	.8	2	
500-261092-A-9	A	Y	.8	2	
500-261092-B-9	A	Y	.8	2	
500-261092-C-9	A	Y	.8	2	
500-261092-D-9	A	Y	.8	2	
500-261092-A-10	A	Y	.8	2	
500-261092-B-10	A	Y	.8	2	
500-261092-A-11	A	Y	.8	2	
500-261092-B-11	A	Y	.8	2	
500-261092-A-12	A	Y	.8	2	
500-261092-B-12	A	Y	.8	2	
500-261092-A-13	A	Y	.8	2	

12/9/24

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Date:	12/9/2024
End Time:	1312
KI Paper Lot:	na
Analyst:	VO

Preservative ID	Preservative Type	Container ID
A	Bromine Monochloride (0.2N)	42322
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)		Comments
500-261092-B-12	A	Y	.6	2	
500-261092-A-13	A	Y	.7	2	
500-261092-B-13	A	Y	.8	2	
500-261092-C-13	A	Y	.6	2	
500-261092-D-13	A	Y	.7	2	
500-261092-A-14	A	Y	.6	2	
500-261092-B-14	A	Y	.6	2	
500-261092-A-15	A	Y	.8	2	
500-261092-B-15	A	Y	.8	2	
500-261092-C-15	A	Y	.8	2	
500-261092-D-15	A	Y	.7	2	
500-261092-A-16	A	Y	.6	2	
500-261092-B-16	A	Y	.8	2	
500-261092-B-17	A	Y	.7	2	
500-261092-A-17	A	Y	.8	2	12/9/24
500-261092-C-17	A	Y	.6	2	
500-261092-D-17	A	Y	.8	2	
500-261092-A-18	A	Y	.7	2	
500-261092-B-18	A	Y	.6	2	
500-261092-A-19	A	Y	.7	2	
500-261092-B-19	A	Y	.8	2	
500-261092-D-19	A	Y	.8	2	
500-261092-C-19	A	Y	.8	2	
500-261092-A-20	A	Y	.8	2	
500-261092-B-20	A	Y	.8	2	
500-261092-A-21	A	Y	.7	2	
500-261092-B-21	A	Y	.8	2	
500-261092-C-21	A	Y	.6	2	
500-261092-D-21	A	Y	.8	2	
500-261092-A-22	A	Y	.7	2	
500-261092-B-22	A	Y	.8	2	

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500-261092 Field Sheet

Date:	12/9/2024
End Time:	14:45
KI Paper Lot:	HC 441709
Analyst:	VL

Preservative ID	Preservative Type	Container ID
A	Nitric Acid	na
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ
ZZZZZZZZZZZZZZZZ	ZZZZZZZZZZZZZZZZZZZZZZZZ	ZZZZZZZZZZ

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
500-261092-M-17	CL			
500-261092-N-17	CL			
500-261092-N-2	CL			
500-261092-N-19	CL			
500-261092-M-9	CL			
500-261092-M-2	CL			
500-261092-N-1	CL			
500-261092-M-17	CL			
500-261092-N-13	CL			
500-261092-M-21	CL			
500-261092-N-15	CL			
500-261092-M-13	CL		12/15/24	
500-261092-M-19	CL			
500-261092-M-7	CL			
500-261092-N-9	CL			
500-261092-N-21	CL			
500-261092-N-7	CL			
500-261092-M-11	CL			
500-261092-M-15	CL			
500-261092-M-5	CL			
500-261092-N-5	CL			