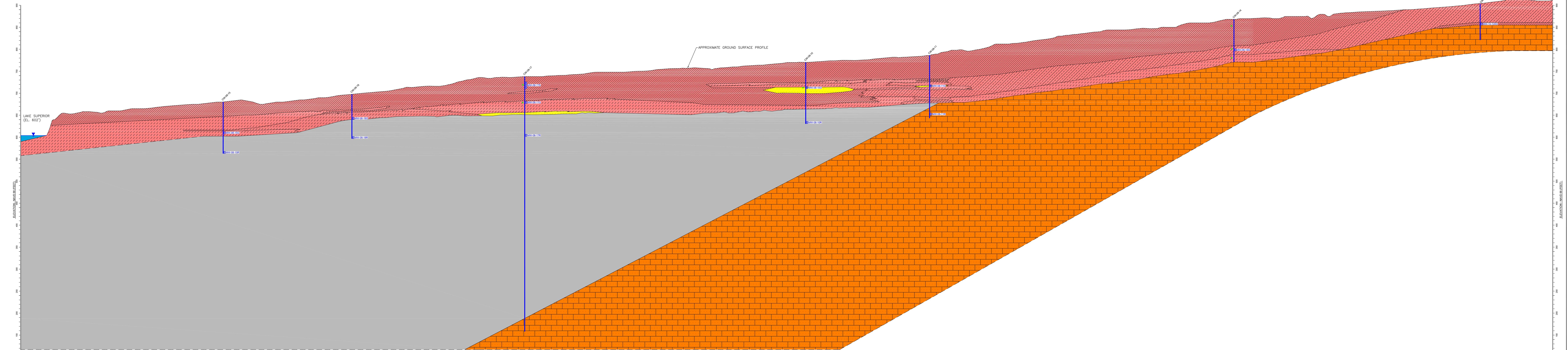


B
NORTHWEST

GEOLOGIC CROSS SECTION B-B'

B'
SOUTHEAST



Pleistocene

Massive Subglacial Diamiction (till)

Diamiction with minor variations in fine components, based on in-field descriptions and observations.

CL Red-brown (2.5 YR 4/4) silty clay with trace fine sand, trace to little fine gravel.

CLML Red-brown (2.5 YR 4/4) silty clay/silt with trace to little fine-coarse sand and trace to little fine-medium gravel.

ML Red-brown (2.5 YR 4/4) clayey to sandy silt with trace to little fine-coarse sand and trace to fine-coarse sand.

MLSM Red-brown (2.5 YR 4/4) silty fine sand to sandy silt with trace to little fine-medium gravel.

Subglacial Meltwater Deposits

SM Reddish-brown (2.5 YR 3.5/4) silty very fine sand with trace gravel and shale fragments.

SP/SM Fine-coarse poorly to well sorted sand with gravel and little silt.

LITHOLOGY

Middle Proterozoic

Ontario Group

NONESUCH SHALE Black, Gray, Green, and Brown bitic siltstone, shale and sandstone.

(Disconformity)

COPPER HARBOR CONGLOMERATE Red lithic conglomerate and sandstone; mafic to felsic volcanic pebbles/cobbles/boulders; generally becomes finer grained upward.

LEGEND

Water Surface Elevation

Well Screen (Monitoring Well)

Soil Sample-Grain Size Analysis

CW-08-XX Boring Designation

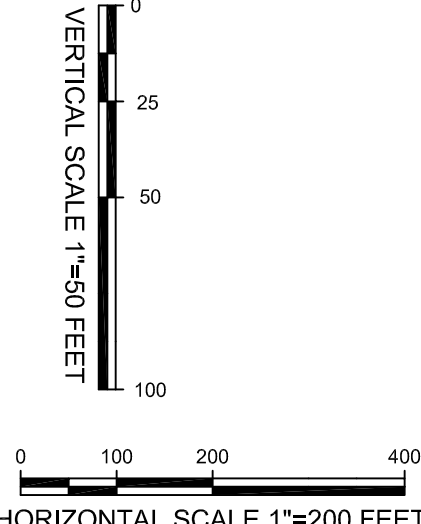
MW-08-XX Monitor Well Designation

G = Glacial

R = Rock

S = Shallow

- NOTES:
- DIAMICTON = POORLY SORTED DEPOSITS COMPOSED OF GRAVEL CLAST WITH A FINER GRAINED MATRIX.
 - SOIL SYMBOLOLOGY FROM AMERICAN SOCIETY FOR TESTING MATERIALS, 1985, D 2487-83, "CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES, ANNUAL BOOK OF ASTM STANDARDS," VOL. 4.06, PP. 35-408.
 - ROCK SYMBOLOLOGY FROM FEDERAL GEOGRAPHIC DATA COMMITTEE, 2006, FSDC STD-013-2006, "DIGITAL CARTOGRAPHIC STANDARD FOR GEOLOGIC MAP SYMBOLIZATION."
 - 2.5 YR 4/4 - MUNSELL SOIL COLOR CHARTS, YEAR 2000 REVISED WASHABLE EDITION.



AECOM

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DRAWN BY: C. DOYLE DATE: JULY 2011

CHECKED BY: A. BLASKE APPROVED BY: A. BLASKE

FIGURE 202.2.3-14b

GEOLOGIC CROSS SECTION B-B'

ORVANA RESOURCES U.S. CORP.
COPPERWOOD PROJECT
GOGEBIC COUNTY, MICHIGAN

PROJECT NUMBER 60179066 SCALE: AS SHOWN