### DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION ACTIVITY REPORT: Scheduled Inspection

FACILITY: ROCK RECYCLERS		SRN / ID: N6837		
LOCATION: 5699 READY RD, S	ROCKWOOD	DISTRICT: Jackson		
CITY: S ROCKWOOD	COUNTY: MONROE			
CONTACT: James Jackson, Load Operator		ACTIVITY DATE: 11/30/2012		
STAFF: Terseer Hemben COMPLIANCE STATUS: Pending		SOURCE CLASS: MINOR		
SUBJECT: Concrete Manufactur	ing: Fugitive dust			
RESOLVED COMPLAINTS:				

INSPECTED BY:PERSONNEL PRESENT:FACILITY PHONE NUMBER:FACILITY FAX:TOATES OF INSPECTION:SRN: N6837Address: 5699 Ready Rd, S. Rockwood MI

Terseer Hemben, MDEQ Thomas Downs 734-783-7400 734-379-0311 1/19/2013

FACILITY BACKGROUND: Great Lakes Aggregates Companies-Rock Recyclers.

The Rock Recyclers (RR) is a concrete and rock recycling facility that processes stripped concrete, aggregate rocks and associated road construction materials for reuse. The rock/concrete yard is located in Rockwood; however the facility has portable crushers that relocate to places of need. The company operates a portable non-metallic mineral processing plant that is used to crush and separate aggregate. A front-end loader deposits aggregate into a feeder. The feeder regulates flow into a crusher. The crushed material is conveyed to a screen. After separation, the sized aggregate is conveyed to stockpiles until loaded onto trucks for transport to the end user.

#### **INSPECTION NARATIVE**

I arrived at the site at 1300 hours. The purpose of the visit was to conduct a scheduled annual compliance inspection at the company operations. Temperature at the hour was 21 F, wind speed 15 mph coming from SSW, and humidity 68%. I met Mr. Kinney who introduced me to the facility. He informed that Mr. Thomas Downs who was responsible for conducting me around was away from site. He would not be able to provide records to me; however he would pass the request to Mr. Downs later. At the site, I observed the plant was shut down for the season. There were no workers on site. I did not observe the operations; however I relied on past records to AQD on February 25, 2013.

#### COMPLAINT/COMPLIANCE HISTORY:

There have not been records of citizen complaints or LOV's on this operation since in AQD files.

**OUTSTANDING CONSENT ORDERS:** 

None

OUTSTANDING LOV'S:

None

OPERATING SCHEDULE/PRODUCTION RATE RR operates seasonally as work demands.

#### PERMIT COMPLIANCE AND EVALUATION: Based on General Permit # 217-00 referencing NSPS-Subpart OOOO, and

http://intranet.deq.state.mi.us/maces/WebPages/ViewActivityReport.aspx?ActivityID=2445... 3/4/2013

NESHAP –RICE, Title 40 CFR, Part 63, Subpart ZZZZ (NESHAP ZZZZ) involving electric generators on site the inspection determined as follows:

- 1. In compliance-RR demonstrated there had not been any modification to any system, and/ or process at the above referenced facility since last 3 years (Rule 336.1216). Item#1 on the cover letter confirms the assessment.
- 2. In compliance –RR demonstrated the visible emissions from the crusher, screen, conveyors; transfer points, wheel loaders, truck traffic, material piles, and etc. were less than the applicable emission limits [SC 1.2]. The visible emission test attached confirmed the assessment.
- 3. In compliance- RR demonstrated the annual emissions at facility did not exceed 2,000,000 tpy [SC 1.3]. Records attached (attachment B) and MAERS 2011 report confirmed the assessment.
- 4. In compliance RR demonstrated the facility only crushed recycled asphalt, and not asbestos tailings or asbestos containing materials [SC 1.5]. Item# 4 on the cover sheet confirmed the assessment.
- In compliance-RR demonstrated the facility complied with the program for continuous fugitive emissions control specified in Appendix A of the General Permit [SC 1.6]. Attachment C confirmed the assessment.
- 6. In compliance-RR demonstrated the crusher and screen was equipped with water spray, maintained and working in satisfactory manner while the crusher was in operation [SC 1.7]. Attachment C confirms records of daily maintenance.
- 7. In compliance RR demonstrated the plant was tested and results were on file [SC 1.8]. Attachment A confirmed the assessment.
- 8. In compliance-RR demonstrated the facility kept and maintained daily and annual records of the amount of material processed for each site at which the Company operated [SC 1.9]. Attachment B confirmed the assessment.
- 9. In compliance RR demonstrated the company labeled all equipment [1.11]. Attachment D confirmed the assessment.
- 10. In compliance RR verified the distance from the crusher to the nearest residential or commercial establishment met the requirement in the general permit [1.13]. Item# 10 confirmed the distances were demonstrated on site maps submitted with the facility relocation.

Inspection Areas of Focus:

- 1. The entire plant equipment was inspected.
- 2. Operational practices of containing fugitive dust-At the time of inspection, the plant was shut down. Staff did not observe operational practices.
- 3. Other associated area of interest- the plant environment was clean. There were no pools of standing water on site, except the truck tire wetting pool.

#### FINAL COMPLIANCE DETERMINATION:

The inspection of RR facility indicated the source had been conducting rock aggregate recycling for a long period. The Company demonstrated good record keeping practice. AQD determines that RR operated in compliance with the general permit conditions.

NAME

DATE 3 4/13

WW SUPERVISOR

**Great Lakes Aggregates Companies** 



February 25, 2013

Mr. Terseer Hemben Environmental Engineer MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY Air Quality Division 3058 West Grand Blvd. Suite 2-300 Detroit, MI 48202

Subject: Great Lakes Aggregates, Rock Recyclers Facility Information Request Response State Registration No. N6837

Dear Mr, Hemben:

Great Lakes Aggregates, LLC (Great Lakes Aggregates) has prepared this correspondence in response to the Michigan Department of Environmental Quality (MDEQ) Air Quality Division (AQD) Pre-Inspection Conference information request that was received by Great Lakes Aggregates for its Rock Recyclers facility (N6837). The following numbered items are responses that correspond to the numbered information/records requested in the Pre-Inspection Conference document.

- 1. The Rock Recyclers facility has not been modified in the last three years.
- 2. As demonstrated in the visible emissions test report presented in Attachment A, the visible emissions from the Rock Recyclers facility are less than the applicable emission limits.
- 3. The material throughput for the Rock Recyclers facility is less than the permitted 2,000,000 TpY. Attachment B presents facility throughput records for 2012 and MAERS emission calculations for reporting year 2011 and 2012.
- 4. The Rock Recyclers facility only crushes concrete and asphalt.
- 5. The Rock Recyclers facility complies with the program for continuous fugitive emissions control in Appendix A of the general permit. Attachment C presents examples of facility daily operator records indicating water application, as well as photographs of the water spray devices installed on the equipment.
- 6. The crusher and screen are equipped with water spray devices. The water spray devices are maintained and are in good working order. Attachment C presents examples of facility daily operator records where any maintenance performed is recorded.
- 7. Attachment A presents the visible emissions test report for the Rock Recyclers facility. A copy of the test report is on file with Great Lakes Aggregates.
- 8. Attachment B presents facility throughput records for 2012, demonstrating the amount of material processed by the Rock Recyclers facility.

**Great Lakes Aggregates Companies** 

Terseer Hemben EQ Air Quality Division Page 2 February 25, 2013

- 9. The Rock Recyclers equipment is appropriately labeled. Attachment D contains photographs of equipment labels.
- 10. The Rock Recyclers facility is operated at least 500, respectively, from any residential or commercial establishment or place of public assembly as specified in the Permit to Install. These distances are demonstrated on site maps submitted with the facility relocation notifications.

Please contact us or Derenzo and Associates at (734) 464-3880 or cscamp@derenzo.com if you have any questions or require additional information.

Sincerely,

'akes

GREAT LAKES AGGREGATES, LLC

Tom Downs

**Operations Manager** 

Attachments

### ATTACHMENT A VE REPORT

Environmental Consultants

August 12, 2002

Mr. Michael E. Smith General Manager ROCK RECYCLERS 7500 Reaume Road Newport, MI 48166

### Subject: Results of visible emission compliance testing conducted on the portable nonmetallic mineral processing facility in operation at Rock Recyclers in Auburn Hills, Michigan

Dear Mr. Smith:

Derenzo and Associates, Inc. is pleased to provide Rock Recyclers with three copies of the results of visible emission compliance tests conducted on the portable non-metallic mineral processing facility in Auburn Hills, Michigan. One copy of the results is for Rock Recycler's records, two copies are required to be forwarded to the Michigan Department of Environmental Quality, Air Quality Division (MDEQ-AQD), Southeast Michigan District Office at the address specified on the enclosed sample cover letter.

The average results of the visible emission measurements for the tested processes were between 0% and <5% opacity.

Derenzo and Associates, Inc. appreciates the opportunity to be of service to Rock Recyclers.

Please contact me if you have any questions.

Sincerely,

DERENZO AND ASSOCIATES, INC.

wara loci

Rosana Foco Project Engineer

Enclosures

39395 Schoolcraft + Livonia, MI 48150-5036 + (734) 464-3880 + FAX (734) 464-4368

August 12, 2002

Air Quality Division SOUTHEAST MICHIGAN DISTRICT HEADQUARTERS 38980 Seven Mile Road Livonia, MI 48152-1006

### Subject: Results of visible emission compliance testing conducted on new equipment installed at the portable non-metallic mineral processing facility in operation at Rock Recyclers in Auburn Hills, Michigan

Rock Recyclers is pleased to provide the Michigan Department of Environmental Quality, Air Quality Division (MDEQ-AQD), Southeast Michigan District Office with two copies of the results of visible emission compliance tests conducted on new equipment installed at the portable non-metallic mineral processing facility in operation in Auburn Hills, Michigan.

The average results of the visible emission measurements for the tested processes were between 0% and <5% opacity.

Ms. Rosana Foco of Derenzo and Associates, Inc. performed the visible emission compliance testing on August 8, 2002.

If you require additional information please contact me at (734) 586-7385 or Ms. Foco at (734) 464-3880.

Please contact me if you have any questions.

Sincerely,

ROCK RECYCLERS

Michael E. Smith General Manager

Enclosures

Environmental Consultants

### RESULTS OF VISIBLE EMISSION COMPLIANCE TESTING CONDUCTED ON NEW EQUIPMENT INSTALLED AT ROCK RECYCLERS PORTABLE NON-METALLIC MINERAL PROCESSING FACILITY

Auburn Hills, Michigan

Project No. 0201012

August 12, 2002

39395 Schoolcraft • Livonia, MI 48150-5036 • (734) 464-3880 • FAX (734) 464-4368

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Environmental Consultants

### RESULTS

### OF VISIBLE EMISSION COMPLIANCE TESTING CONDUCTED ON NEW EQUIPMENT INSTALLED AT ROCK RECYCLERS PORTABLE NON-METALLIC MINERAL PROCESSING FACILITY

#### 1.0 INTRODUCTION

Rock Recyclers retained Derenzo and Associates, Inc. to conduct compliance testing on visible emissions (VE) from new equipment installed at their portable non-metallic mineral processing facility currently located in Auburn Hills, Michigan. This testing is a requirement of General Air Use Permit No. 217-00 which was issued to Rock Recyclers by the Michigan Department of Environmental Quality, Air Quality Division (MDEQ-AQD).

Ms. Rosana Foco of Derenzo and Associates, Inc conducted the VE testing on August 8, 2002. Mr. Michael E. Smith of Rock Recyclers coordinated the testing project.

Mr. Tom Maza of the Air Quality Division, Southeast District Office verbally approved a visible emission test plan dated May 2, 2002, which outlines the emission measurement protocol and procedures used for the compliance testing, before the field measurements were performed and was notified of the compliance testing dates.

#### 2.0 PROCESS DESCRIPTION

Rock Recyclers operates a portable non-metallic mineral processing plant that is used to crush and separate aggregate. A front-end loader deposits aggregate into a feeder. The feeder regulates flow into a crusher. The crushed material is conveyed to a screen. After separation, the sized aggregate is conveyed to stockpiles until loaded onto trucks for transport to the end user.

Figures 1 is a flow diagram of the Rock Recyclers non-metallic mineral processing operations, and identifies all of the tested processes.

### 3.0 TEST PROCEDURES

United States Environmental Protection Agency (USEPA) Method 9, Visible Determination of the Opacity of Emissions From Stationary Sources, was used to determine the opacity (VE) of the fugitive dust emissions generated by the processing operations. A qualified visible emission observer observed the VE test.

The VE measurement sampling times and procedures used for the testing are consistent with those specified in the visible emissions test plan and the requirements of 40 CFR Part 60, Subparts A (General Provisions) and OOO (Federal New Source Performance Standards for Nonmetallic Mineral Processing Plants) regulations.

Section 60.675(c)(3) specifies that Method 9 observations for fugitive emissions from sources affected under 60.672(b) may be reduced from 3 hours (30, 6 minute averages) to 1 hour (10, 6 minute averages), if no individual opacity readings exceed 10% and no more than 3 readings of 10% are observed for the first 1 hour measurement period.

Section 60.675(c)(4) specifies that Method 9 observations for fugitive emissions from crushers affected under 60.672(c) may be reduced from 3 hours to 1 hour, if no opacity readings exceed 15% and no more than 3 readings of 15% are observed for the first 1-hour measurement period.

Section 60.675(c)(1)(iii) specifies Method 9 observation procedures that were utilized and are applicable to affected facilities using wet dust suppression for particulate matter control (i.e., a visible mist is sometimes generated by the emissions and is not to be considered a visible emission and the observation of emissions is to be made at a point in the plume where the mist is no longer visible).

As specified in the visible emission test plan, process operations that were water suppressed and considered saturated, were not monitored for VE.

Appendix A provides a list of the emission points.

Appendix B provides a copy of USEPA Method 9.

Appendix C provides a copy of the certificate issued to the qualified observer.

#### 4.0 TEST RESULTS

The average VE test measurements performed on the identified portable crushing processes were between 0% and <5% opacity.

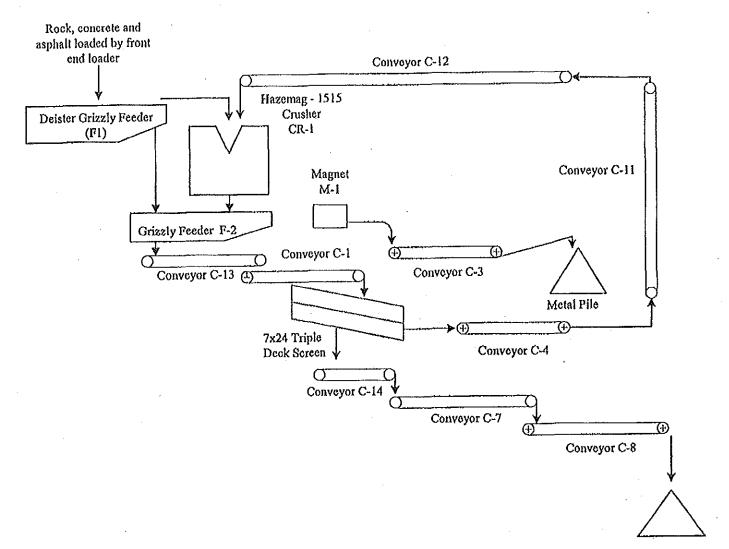
Rock Recyclers processed about 1400 tons of aggregate over the four (4) hour VE testing period, averaging a processing rate of 350 TpH.

Table 4.1 presents the results for the VE test measurements recorded for the portable nonmetallic mineral processing facility.

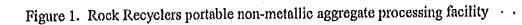
Appendix D provides a copy of field sampling data sheets.

Report Prepared By:

Kocana/loa) Rosana Foco Project Engineer



Storage Pile



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#### Table 4.1. Visible Emission Measurements

Emission Source Description	Test Date	Start Time	Stop Time	Maximum Opacity	Minimum Opacity	Maximum Average Opacity
Feeder (F2) to Conveyor (Cl3)	8/8/2002	9:30	10:30	0%	0%	<5%
Conveyor (C13)	8/8/2002	9:30	10:30	0%	0%	<5%
Conveyor (13) to Conveyor (C1)	8/8/2002	9:30	10:30	0%	0%	<5%
Screen (SCR1) to Conveyor (C14)	8/8/2002	10:32	11:32	0%	0%	<5%
Conveyar (C14)	8/8/2002	10:32	11:32	0%	0%	<5%
Conveyor (C14) to Conveyor (C7)	8/8/2002	10:32	11:32	0%	0%	<5%
Conveyor (C4) to Conveyor (C11)	8/8/2002	11:55	12:55	0%	0%	<5%
Conveyor (C11)	8/8/2002	11:55	12:55	0%	0%	<5%
Conveyor (11) to Conveyor (C12)	8/8/2002	11:55	12:55	0%	0%	<5%
), Conveyor (C12)	8/8/2002	1:00	2:00	0%	0%	<5%
. Conveyor (C12) to Crusher (CR1)	8/8/2002	1:00	2:00	0%	0%	<5%

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# APPENDIX A

### EMISSION POINTS

### EMISSION POINTS

### Rock Recyclers New Equipment Portable Non-Metallic Mineral Processing Facility Auburn Hills, Michigan

1. Feeder (F2) to Conveyor (C13)

2. Conveyor (C13)

3. Conveyor (C13) to Conveyor (C1)

4. Screen (SCR1) to Conveyor (C14)

5. Conveyor (C14)

6. Conveyor (C14) to Conveyor (C7)

7. Conveyor (C4) to Conveyor (C11)

8. Conveyor (C11)

9. Conveyor (C11) to Conveyor (C12)

10. Conveyor (C12)

11. Conveyor (C12) to Crusher (CR1)

# APPENDIX B

# USEPA METHOD 9

#### Method 9 – Visible Determination of the Opacity of Emissions from Stationary Sources

#### INTRODUCTION

- (a) Many stationary sources discharge visible emissions into the atmosphere; these emissions are usually in the shape of a plume. This method involves the determination of plume opacity by qualified observers. The method includes procedures for the training and certification of observers and procedures to be used in the field for determination of plume opacity.
- (b) The appearance of a plume as viewed by an observer depends upon a number of variables, some of which may be controllable in the field. Variables which can be controlled to an extent to which they no longer exert a significant influence upon plume appearance include: angle of the observer with respect to the plume; angle of the observer with respect to the sun; point of observation of attached and detached steam plume; and angle of the observer with respect to a plume emitted from a rectangular stack with a large length to width ratio. The method includes specific criteria applicable to these variables.
- (c) Other variables which may not be controlled in the field are luminescence and color contrast between the plume and the background against which the plume is viewed. These variables exert an influence upon the appearance of a plume as viewed by an observer and can affect the ability of the observer to assign accurately opacity values to the observed plume. Studies of the theory of plume opacity and field studies have demonstrated that a plume is most visible and presents the greatest apparent opacity when viewed against a contrasting background. Accordingly, the opacity of a plume viewed under conditions where a contrasting background is present can be assigned with the greatest degree of accuracy. However, the potential for a positive error is also the greatest when a plume is viewed under such contrasting conditions. Under conditions presenting a less contrasting background, the apparent opacity of a plume is less and approaches zero as the color and luminescence contrast decrease toward zero. As a result, significant negative bias decreases rather than increases the possibility that a plant operator will be incorrectly cited for a violation of opacity standards as a result of observer error.
- (d) Studies have been undertaken to determine the magnitude of positive errors made by qualified observers while reading plumes under contrasting conditions and using the procedures set forth in this method. The results of these studies (field trials) which involve a total of 769 sets of 25 readings each are as follows:
  - (1) For black plumes (133 sets at a smoke generator), 100 percent of the sets were read with a positive error of less than 7.5 percent opacity; 99 percent were read with a positive error of less than 5 percent opacity. (Note: For a set, positive error = average opacity determined by observers' 25 observations average opacity determined from transmissometer's 25 recordings.)
  - (2) For white plumes (170 sets at a smoke generator, 168 sets at a coal-fired plant, 298 sets at a sulfuric acid plant), 99 percent of the sets were read with a positive error of less than 7.5 percent opacity; 95 percent were read with a positive error of less than 5 percent opacity.

(e) The positive observational error associated with an average of twenty-five readings is therefore established. The accuracy of the method must be taken into account when determining possible violations of applicable opacity standards.

#### 1. PRINCIPLE AND APPLICABILITY

- 1.1 Principle. The opacity of emissions from stationary sources is determined by a qualified observer.
- 1.2 Applicability. This method is applicable for the determination of the opacity of emissions from stationary sources pursuant to § 60.11(b) and for visually determining opacity of emissions.

#### 2. PROCEDURES

The observer qualified in accordance with Section 3 of this method shall use the following procedures for visually determining the opacity of emissions.

- 2.1 Position. The qualified observer shall stand at a distance sufficient to provide a clear view of the emissions with the sun oriented in the 140° sector to his back. Consistent with maintaining the above requirement, the observer shall, as much as possible, make his observations from a position such that his line of vision is approximately perpendicular to the plume direction and, when observing opacity of emissions from reotangular outlets (e.g., roof monitor, open baghouses, noncircular stacks), approximately perpendicular to the longer axis of the outlet. The observer's line of sight should not include more than one plume at a time when multiple stacks are involved, and in any case the observer should make his observations with his line of sight perpendicular to the longer axis of such a set of multiple stacks (e.g., stub stacks on baghouses).
- 2.2 Field Records. The observer shall record the name of the plant, emission locations, facility type, observer's name and affiliation, and the date on a field data sheet (Figure 9-1). The time, estimated distance to the emission location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), and plume background are recorded on a data sheet at the time opacity readings are initiated and completed.
- 2.3 Observations. Opacity observations shall be made at the point of greatest opacity in that portion of the plume where condensed water vapor is not present. The observer shall not look continuously at the plume but instead shall observe the plume momentarily at 15-second intervals.
- 2.3.1 Attached Steam Plumes. When condensed water vapor is present within the plume as it emerges from the emission outlet, opacity observations shall be made beyond the point in the plume at which condensed water vapor is no longer visible. The observer shall record the approximate distance from the emission outlet to the point in the plume at which the observations were made.
- 2.3.2 Detached Steam Plume. When water vapor in the plume condenses and becomes visible at a distinct distance from the emission outlet, the opacity of emissions should be evaluated at the emission outlet prior to the condensation of water and the formation of the steam plume.

- 2.4 Recording Observations. Opacity observations shall be recorded to the nearest 5 percent at 15-second intervals on an observational record sheet. (See Figure 9-2 for an example.) A minimum of 24 observations shall be recorded. Each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period.
- 2.5 Data Reduction. Opacity shall be determined as an average of 24 consecutive observations recorded at 15-second intervals. Divide the observations recorded on the record sheet into sets of 24 consecutive observations. A set is composed of any 24 consecutive observations. Sets need not be consecutive in time and in no case shall two sets overlap. For each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24. If an applicable standard specifies an averaging time requiring more than 24 observations, calculate the average for all observation made during the specified time period. Record the average opacity on a record sheet. (See Figure 9-1 for an example.)

#### 3. QUALIFICATION AND TESTING

- 3.1 Certification Requirements. To receive certification as a qualified observer, a candidate must be tested and demonstrate the ability to assign opacity readings in 5 percent increments to 25 different black plumes and 25 different white plumes, with an error not to exceed 15 percent opacity on any one reading and average error not to exceed 7.5 percent opacity in each category. Candidates shall be tested according to the procedures described in Section 3.2. Smoke generators used pursuant to Section 3.2 shall be equipped with a smoke meter which meets the requirements of Section 3.3. The certification shall be valid for a period of 6 months, at which time the qualification procedure must be repeated by any observer in order to retain certification.
- 3.2 Certification Procedure. The certification test consists of showing the candidate a complete run of 50 plumes 25 black plumes and 25 white plumes generated by a smoke generator. Plumes within each set of 25 black and 25 white runs shall be presented in random order. The candidate assigns an opacity value to each plume and records his observation on a suitable form. At the completion of each run of 50 readings, the score of the candidate is determined. If a candidate fails to qualify, the complete run of 50 readings must be repeated in any retest. The smoke test may be administered as part of a smoke school or training program and may be preceded by training or familiarization runs of the smoke generator during which candidates are shown black and white plumes of known opacity.
- 3.3 Smoke Generator Specifications. Any smoke generator used for the purposes of Section 3.2 shall be equipped with a smoke meter installed to measure opacity across the diameter of the smoke generator stack. The smoke meter output shall display in-stack opacity based upon a path length equal to the stack exit diameter, on a full 0 to 100 percent chart recorder scale. The smoke meter optical design and performance shall meet the specifications shown in Table 9-1. The smoke meter shall be calibrated as prescribed in Section 3.3.1 prior to the conduct of each smoke reading test. At the completion of each test, the zero and span drift shall be checked and if the drift exceeds ±1 percent opacity, the condition shall be corrected prior to conducting any subsequent test runs. The smoke meter shall be demonstrated, at the time of installation, to meet the specifications listed in Table 9-1. This demonstration shall be repeated following any subsequent repair or replacement of the photocell or associated electronic circuitry including the chart recorder or output meter, or every 6 months, whichever occurs first.

Parameter	Specification
a. Light Source	Incandescent lamp operated at nominal rated voltage
b. Spectral response of photocell	Photopic (daylight spectral response of the human eye – Citation 3)
c. Angle of view	15° maximum total angle
d. Angle of projection	15° maximum total angle
e. Calibration error	±3% opacity, maximum
f. Zero and span drift	$\pm 1\%$ opacity, 30 minutes
g. Response time	5 seconds

#### TABLE 9-1 SMOKE METER DESIGN AND PERFORMANCE SPECIFICATIONS

- **3.3.1** Calibration. The smoke meter is calibrated after allowing a minimum of 30 minutes warmup by alternating producing simulated opacity of 0 percent and 100 percent. When stable response at 0 percent or 100 percent is noted, the smoke reader is adjusted to produce an output of 0 percent of 100 percent, as appropriate. This calibration shall be repeated until stable 0 percent and 100 percent opacity values may be produced by alternately switching the power to the light source on and off while the smoke generator is not producing smoke.
- 3.3.2 Smoke Meter Evaluation. The smoke meter design and performance are to be evaluated as follows:
- 3.3.2.1 Light Source. Verify from manufacturer's data and from voltage measurements made at the lamp, as installed, that the lamp is operated within  $\pm 5$  percent of the nominal rated voltage.
- 3.3.2.2 Spectral Response of Photocell. Verify from manufacturer's data that the photocell has a photopic response; i.e., the spectral sensitivity of the cell shall closely approximate the standard spectral-luminosity in (b) of Table 9-1.
- 3.3.2.3 Angle of View. Check construction geometry to ensure that the total angle of view of the smoke plume, as seen by the photocell, does not exceed 15°. The total angle of view may be calculated from  $Q = 2 \tan^{-1} (d/2L)$ , where Q = total angle of view, d = the sum of the photocell diameter + the diameter of the limiting aperture; and L = the distance from the photocell to the limiting aperture. The limiting aperture is the point in the path between the photocell and the smoke plume where the angle of view is most restricted. In smoke generator smoke meters this is normally an orifice plate.
- **3.3.2.4 Angle of Projection.** Check construction geometry to ensure that the total angle of projection of the lamp on the smoke plume does not exceed 15°. The total angle of projection may be calculated from:  $Q = 2 \tan^{-1} (d/2L)$ , where  $Q = \text{total angle of projection; } d = \text{the sum of the length of the lamp filament + the diameter of the limiting aperture; and <math>L = \text{the distance from the lamp to the limiting aperture.}$

- 3.3.2.5 Calibration Error. Using neutral-density filters of known opacity, check the error between the actual response and the theoretical linear response of the smoke meter. This check is accomplished by first calibrating the smoke meter according to Section 3.3.1 and then inserting a series of three neutral-density filters of nominal opacity of 20, 50, and 75 percent in the smoke meter pathlength. Filters calibrated within 2 percent shall be used. Care should be taken when inserting the filters to prevent stray light from affecting the meter. Make a total of five nonconsecutive readings for each filter. The maximum error on any one reading shall be 3 percent opacity.
- **3.3.2.6 Zero and Span Drift.** Determine the zero and span drift by calibrating and operating the smoke generator in a normal manner over a 1-hour period. The drift is measured by checking the zero and span at the end of this period.
- 3.3.2.7 Response Time. Determine the response time by producing a series of five simulated 0 percent and 100 percent opacity values and observing the time required to reach stable response. Opacity values of 0 percent and 100 percent may be simulated by alternately switching the power to the light source off and on while the smoke generator is not operating.

#### 4. **BIBLIOGRAPHY**

- 1. Air Pollution Control District Rules and Regulations, Los Angeles County Air Pollution Control District, Regulation IV, Prohibitions, Rule 50.
- Weisburd, Melvin I., Field Operations and Enforcement Manual for Air, U.S. Environmental Protection Agency, Research Triangle Park, NC, APTD-1100, August 1972, pp. 4.1-4.36.
- 3. Condon, B.U., and Odishaw, H., Handbook of Physics, McGraw-Hill Co., New York, NY, 1958, Table 3.1, p.6-52.

### APPENDIX C

# QUALIFIED OBSERVER CERTIFICATE

# EASTERN TECHNICAL ASSOCIATES

### **ROSANA FOCO**

mot the specifications of Fadoral Reference Method 9 and qualifies as a visible emissions avaluator. Maximum divideion on white and Mack smoke did not exceed 7.6% opacity and no single error exceeding 16% opacity was incurried during the contraction test conducted by Eastern Technical Associates of Refeigh, NC. This contractes is verif for ely months from date to bay and expires on the date below.

Michael N. Jeanford DIRECTOR OF TRUNING

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4/9/2002 DATE OF SCHOOL 10/9/2002

294990 BEARER CERTIFICATION NUMBER

EXPIRATION DATE

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# APPENDIX D

# FIELD SAMPLING DATA SHEETS

SOURCE NAME ROCK RECYCLERS	SOURCE NAME KOCK REC.YCLERS SOURCE ID NUMBER	SOURCE NAME ROCK RECYCLERS
SOURCE ID NUMBER SCK1 45 C14	C14	SOURCE ID NUMBER C14 HD C7
DBSERVATION DATE         START TIME         STOP TIME $JI - 32$ SK         0         15         30         45 $MS^{50}$ 0         15         30         45           1         0         0         0         31         0	OBSERVATION DATE         START TIME         STOP TIME $S/S/S/S$ 1         30         45         1         30         45           1         0         0         31         0	OBSERVATION DATE         START TIME         STOP TIME $\frac{7}{8}/9.2$ $\frac{8}{8}/9.3.32$ $11.3.3$ $\frac{10}{15}$ $30$ $45$ $\frac{10}{32}$ $0$ $15$ $30$ $45$ $1$ $0$ $15$ $30$ $45$ $\frac{11}{30}$ $0$ $0$ $2$ $0$ $15$ $30$ $45$ $\frac{11}{30}$ $0$ $0$ $2$ $0$ $0$ $31$ $0$
		29 0 0 0 59 0 0 0 0 30 0 0 0 0 0 0 0 0 0 0

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SOURCE NAME	SOURCENAME	SOURCE NAME
Rock Lecyclers	ROCK RECVILERS	Kock RECYCLERS
SOURCE ID NUMBER	SOURCE ID NUMBER	SOURCE ID NUMBER
C4 to C11	C1)	C/1 to C12,
OBSERVATION DATE START TIME STOP TIME	OBSERVATION DATE START TIME STOP TIME	OBSERVATION DATE START TIME STOP TIME
\$18/02 11:55 12:55	8/8/02 11:55 12:05	8/8/62 11:55 2:55
	20000320000	2000032000
	3000030000	
4000030000	400003400000	40003003
5 0 0 0 35 0 0 0 0	50000350000	500035000
6000360000	6000360000	600036000
7 0 0 0 0 37 0 0 0 0	70000370000	7000037000
30000380000	80000380000	
		9000030000
	▞ <u>▕</u> ▎ <u>────</u> ┤─┶ <u>╱</u> ┥┥┷ <u>╱</u> ┥┥ <u>───</u> ┤┙ <u>──</u> ┤┥ <u>───</u> ┤─ <del>─</del> ─┤┙ <u>─</u> ╱┤┥	
1000040000		
120000420000		
13 0 0 0 0 43 0 0 0 0		13000043000
14000040000	14 0 7 0 0 44 0 0 0 0	14 0 0 0 44 0 0 0
15 0 0 0 45 0 0 0 0		
16 0 0 0 46 0 0 0 0		
17 0 0 0 47 0 0 0 6	17 0 0 0 47 0 0 0 0	17000047000
		23000050000
24 0 0 0 54 0 0 0 0	240000540006	24 0 0 0 54 0 0 0
		25 0 0 0 0 55 0 0 0 1
27 0 0 0 57 6 0 0 0		
		30 0 0 0 0 0 0 0

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SOURCE NAME	SOURCE NAME	SOURCE NAME	
Rock Recreies	Rock Rerverbes		
SOURCE ID NUMBER	SOURCE ID NUMBER	SOURCE ID NUMBER	
CIZ	CI2 to CRI		
OBSERVATION DATE START TIME STOP TIME	OBSERVATION DATE START TIME STOP TIME	OBSERVATION DATE START TIME STOP TIME	
8/8/02 1:00 2:00	8/8/0Z /:00 2:00		
MIR 2EC 0 15 30 45 MIR 2EC 0 15 30 45	MARSEC 0 15 30 45 MARSEC 0 15 30 45	MIN SEC 0 15 30 45 MIN SEC 0 15 30	45
100001310060		1 31	i
20000 = 20000		2 32	!
3000030000	30000330000	3 33	
40000340000	40000 30000	4 34	
50000350000	50000350000	5 35	i
5000360000		6 36	
70000370000	70000370000	7 37	
8000030000	80000380000	8 38	
9000390000	90000390000	9 39	
100000400000	10 0 0 0 40 0 0 0 0	10 40	[
110000410000	110000410000	11 41	
120000420000	120000420000	12 42	
130000430000	130000430000	13 43	]
14000040000	14000040000	14 44	
15 0 0 0 0 45 0 0 0 0	15 0 0 0 45 0 0 0	15 45	1
	16 0 0 0 45 0 0 0 0	16 46	{
17 0000470000	170000470000	17 47	1
		18 48	1
19 0 0 0 49 0 0 0	190000490000	19 49	1
		20 50	1
21 0 0 0 51 0 0 0	210000510000	21 51 51	1
20000520000		22 52	1
		23 53	1
24000040000	24 0 0 0 54 0 0 0	24 54	1
		25 55	<u>†</u>
		26 56	1
		27 57	<u> </u>
		28 58	† –
		29 59	<u>†</u>
		30 60	1
			<u> </u>

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SOURCE NAME	SOURCENAME	SOURCE NAME			
Rock RECYCLIERS	Kock KECYCLERS	KOCK KECYCLERS			
SOURCE ID NUMBER	SOURCE ID NUMBER	SOURCE ID NUMBER			
#FZ to CB	CB	C13 to C1			
PROCESS EQUIPMENT OPERATING MODE	PROCESS EQUIPMENT OPERATING MODE	PROCESS EQUIPMENT OPERATING MODE			
Seeder to Conveyor 350 TPH	Conveyor 350TpH	Conveyor to Conveyor 3505 pt			
CONTROL EQUIPMENT () OPERATING MODE	CONTROL EQUIPMENT OPERATING MODE	CONTROL EQUIPMENT () OPERATING MODE			
DESCRIBE EMISSION POINT	DESCRIBE EMISSION POINT	DESCRIBE EMISSION POINT			
START JAAQLEN STOP					
HTASOVE GROUND LEVEL HT RELATIVE TO OBSERVER	START Point STOP	START PLONDLEVEL STOP			
	HT ABOVE GROUND LEVEL HT RELATIVE TO OBSERVER				
START /OFF STOP V START /OFF-STOP V	START / START / START / SF4 STOP	START 207-STOP START 2091 STOP 2			
DISTANCE FROM OBSERVER DIRECTION FROM OBSERVER	DISTANCE FROM OBSERVER DIRECTION FROM OBSERVER				
START 304 STOP V START NE STOP V	START 304 STOP - START NE STOP -	START 304STOP V STARTN E STOP 1			
DESCRIBE EMISSIONS	DESCRIBE EMISSIONS	DESCRIBE EMISSIONS			
START Fulitive STOP	START Bontiontue STOP	START TUGITIVE STOP			
EMISSION COLOR  PLUME TYPE: CONTINUOUS	EMISSION COLOR [PLUME TYPE: CONTINUOUS]	EMISSION COLOR  PLUME TYPE: CONTINUOUS			
STARE STOP - FUGITIVE INTERMITTENT	STARTBOOMSTOP - FUGITIVE INTERMITTENT	STARTBOOM STOP - FUGITIVE INTERMITTENT			
WATER DROPLETS PRESENT: IF WATER DROPLET PLUME:	WATER DROPLETS PRESENT: IF WATER DROPLET PLUME:	WATER DROPLETS PRESENT: IF WATER DROPLET PLUME:			
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED			
START NA STOP	START NA- STOP -	START NA STOP			
DESCRIBE BACKGROUND	DESCRIBE, EACKGROUND	DESCRIBE BACKGROUND			
START Varian STOP	START Machinery STOP	START Machinery STOP			
BACKGROUND COLOR SKY CONDITIONS	BACKGROUND COLOR ( SKY CONDITIONS	BACKGROUND COLOR / SKY CONDITIONS			
START BAR STOP					
WIND SPEED WIND DIRECTION	START (1/20 STOP / START (1/20 STOP /	STARTBEIGE STOP _ START Char STOP _			
		WIND SPEED WIND DIRECTION			
	START 5-10 STOP START STOP	START 5-0STOP START STOP			
AMBLENT TEMP WET BULB TEMP RH %	AMBIENT TEMP WET BULB TEMP RH %	AMBIENT TEMP WET BULB TEMP RH %			
START 67 STOP 69 NA -	START 67 STOP 69 NA -	START 67 STOP 69 NA-			
Source Layout Sketch Draw North Arrow	Source Layout Sketch Draw North Arrow	Source Layout Sketch Draw North Arrow			
Emission Point X	Emission Point X	Emission Point X			
Sur 🖓	Sun -	Sun			
Wind	Wind 140°	Wind 140°			
Plume =	Plume				
Stack Sun Locator Line	Stack Sun Locator Line	Stack Sun Locator Line			
		▝▝▌ ▝▋▌ ▌ <u>▋</u> ▆ <sup>▆</sup> ▋▌ <sup>▆</sup> ▋▌ <sup>▆</sup> ▋ <mark>▋</mark> ▋ <mark>▋</mark> ▋ <mark>▋</mark> ▋▋▌ <u>▋</u> ▋▋ <u>▋</u> ▋▋ <u>▋</u> ▋▋▋▋▋ <u></u> ▋▋▋ <u></u> ▋▋ ▋			
OBSERVER'S NAME (PRINT)	ORGANIZATION	ADDRESS			
Rosana For	Desano & Gassister elas.	Land Desver des			
	CERTIFIED BY	ROCK RECYCLERS			
OBBERVER'S SIGNATURE DATE KOOGMOLIOCU 8/8/02	CERTIFIED BY DATE	7500 Recurse Rd.			
Koranastan 8/8/02	Casten Technical apper. 1/09/02	Newport, MI 4 8166			
		•			

SOURCE NAME		SOURCE NAME		SOURCE NA	ME		
ROCK RECYCLERS		ROCK RECYCLERS		KOCL RECYCLERS			
SOURCE ID NUMBER		SOURCE ID NUMBER		SOURCE ID NUMBER			
C12		Ciz to	CRI	-			ł
PROCESS EQUIPMENT	OPERATING MODE	PROCESS EQUIPMENT	OPERATING MODE	PROCESS E	QUIPMENT	OPERATING MOD	DE
Conserver	300794	Conveyor to Crusher	350Tpt!			35	
CONTROL EQUIPMENT	OPERATING MODE	CONTROL EQUIPMENT	OPERATING MODE	CONTROL E	QUIPMENT	OPERATING MOL	DE
		Water Soran					
DESCRIBE EMISSION POINT		DESCRIBE-EMISSION POINT		DESCRIBE 6	EMISSION POINT	· · · · · · · · · · · · · · · · · · ·	
START POUR!	STOP /	START havefer	STOP	START		STOP	
HT ABOVE GROUND LEVEL	HT RELATIVE TO OBSERVER	HT ABOVE GROUND LEVEL	HT RELATIVE TO OBSERVER	HT ABOVE (	GROUND LEVEL	HT RELATIVE TO	OBSERVER
START 15 4-STOP	START /SAS STOP	START254-STOP	STARL 2573-STOP	START	STOP	START S	TOP
	DIRECTION FROM OBSERVER		DIRECTION FROM OBSERVER	DISTANCE F	ROM OBSERVER	DIRECTION FRO	M OBSERVER
START 259-STOP	START ALE STOP	START 357 STOP	START NE STOP	START	STOP	START S	
DESCRIBE EMISSIONS		DESCRIBE EMISSIONS		DESCRIBE	EMISSIONS		
START Ausitive	STOP	START troiting	STOP	START		STOP	
EMISSION COLOR	PLUME TYPE: CONTINUOUS	EMISSION COLOR	PLUME TYPE: CONTINUOUS	EMISSION C	OLOR	PLUME TYPE: CO	
START BOWNSTOP	FUGITIVE INTERMITTENT	STARTBOWN STOP	FUGITIVE INTERMITTENT	START	STOP	FUGITIVE IN	
WATER DROPLETS PRESENT:	IF WATER DROPLET PLUME:	WATER DROPLETS PRESENT:	IF WATER DROPLET PLUME:	WATER DRO	OPLETS PRESENT:	IF WATER DROP	LET PLUME:
NO S YES C		NO DO YES			YES 🖸	ATTACHED [] [	
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED		POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED POINT IN THE PLUME AT WHICH OPACITY WAS DET			DETERMINED		
START NA-	STOP	START NA-	STOP	START		STOP	
DESCRIBE BACKGROUND		DESCRIBE BACKGROUND		OESCRIBE	BACKGROUND		
START Machinery	STOP V	START Machinen	STOP -	START		STOP	
BACKGROUND COLOFU	SKY CONDITIONS	BACKGROUND COLOF	SKY CONDITIONS	BACKGROL		SKY CONDITION	
STARTBURG STOP	START (Loca STOP	START BERG STOP	START Clic STOP	START	STOP		TOP
WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEE		WIND DIRECTIO	
START 5-10STOP	START STOP	START 5-10 STOP	START STOP	START	STOP		TOP
AMBIENT TEMP	WET BULB TEMP RH %	AMBIENT TEMP	WET BULB TEMP RH %	AMBIENT T		WET BULB TEM	PRH %
START STOP	1	START STOP		START	STOP	<u> </u>	
Source Layout Sketch	Draw North Arrow	Source Layout Sketch	Draw North Arrow	Source Lay	out Sketch	Draw North	Arrow
Emission Point	· (1)	Emission Point	~ (f)		Emission Point	, <i>(</i> ]	) ·
Calssion Point					Emission Point		
· · ·							
Sun -p-		Sun -¢-	ė_	Sun 💠	_	de la companya de la	
Wind h	140°	Wind	140°	Wind	1	40°	
Stack Sun Loca	tor Line	Stack Sun Loca	ator Line	Stack	Sun Loca	utor Line	
			·····				
<u></u>				l <b>k</b>			·····
OBSERVER'S NAME (PRINT)	· · · · · · · · · · · · · · · · · · ·	ORGANIZATION		ADDRESS			
RODANA FOCD		Desenon & acost	ADDRESS BOCK RECTCLERS				
OBSERVER'S SGNATURE	DATE	CERTIFIED BY	DATE -	75004	Reame Road.	_	
	\$/8/62	Costern Jechnical	2 Gaser 4/09/02	Newpor	Reame Road. +, MI 481	166	
Kasana Joes	<u>} 30000</u>	I COONTAIN JOURNAUCO	uxue 4/17/02	] [	· · · · · ·		

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OURCE NAME	SOURCE NAME	SOURCE NAME				
ROCK PECYCLERS	ROCK RECYCLERS	Rock Recyclers				
OURCE ID NUMBER	SOURCE ID NUMBER	SOURCE ID NUMBER				
C4 to C11	Cit	<u>(11 +0 C1Z</u>				
PROCESS EQUIPMENT OPERATING MODE	PROCESS EQUIPMENT OPERATING MODE	PROCESS EQUIPMENT OPERATING MODE				
Conveyor & Conveyor 30 TPH	Conversor 350TPH					
CONTROL EQUIPMENT O OPERATING MODE	CONTROL EQUIPMENT OPERATING MODE	CONTROLLEQUIPMENT () OPERATING MODE				
CONTROLEQUIPMENT O OFERALING MODE	CONTROL BOUIPMENT OPERATING MODE	CONTROLLEGUIPMENT () OPERATING MODE				
DESCRIBE EMISSION POINT	DESCRIBE EMISSION POINT	DESCRIBE-EMISSION POINT				
START Granden STOP	START PSINT STOP	START Transfer STOP				
TABOVE GROUND LEVEL HT RELATIVE TO OBSERVER	HT ABOVE GROUND LEVEL HT RELATIVE TO OBSERVER	HT ABOVE GROUND LEVEL HT RELATIVE TO OBSERVE				
START 3 FT STOP V START 3 FL STOP V	START 34 STOP - START 34 STOP -	START 107- STOP - START 107- STOP				
DISTANCE FROM OBSERVER DIRECTION FROM OBSERVE						
START 30 A STOP V START NE STOP V	START 30FFSTOP START NE STOP	START 30FF STOP START NE STOP				
DESCRIBE EMISSIONS	DESCRIBE EMISSIONS	DESCRIBE/EMISSIONS				
START Jugitive STOP	START Jucitive STOP	START Jugitive STOP				
EMISSION COLOR PLUME TYPE: CONTINUOUS						
TARTBOWN STOP		<b>J J J J J J J J J J</b>				
VATER DROPLETS PRESENT: IF WATER DROPLET PLUME:	WATER DROPLETS PRESENT: IF WATER DROPLET PLUME:	WATER DROPLETS PRESENT: IF WATER DROPLET PLUM				
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINE		POINT IN THE PLUME AT WHICH OPACITY WAS DETERMIN				
START NA STOP -	START NA- STOP -	START NA STOP -				
DESCRIBE BACKGROUND	DESCRIBE BACKGROUND	DESCRIBE BACKGROUND				
START Marhineus STOP	START Mochinew STOP V	START Marhinen STOP				
BACKGROUND COLOR U SKY CONDITIONS	BACKGROUND COLOR SKY CONDITIONS	BACKGROUND COLORU SKY CONDITIONS				
START (bin STOP	START BOIN STOP START CLOON STOP	START BOJOS STOP START Chon STOP				
WIND SPEED WIND DIRECTION	WIND SPEED WIND DIRECTION	WIND SPEED WIND DIRECTION				
START 5-10 STOP START STOP	START 5-10 STOP / START STOP	START 570 STOP START STOP				
AMBIENT TEMP WET BULB TEMP RH %	AMBIENT TEMP WET BULB TEMP RH %	AMBIENT TEMP WET BULB TEMP RH %				
START 72 STOP	START 72 STOP	START-72 STOP				
Source Layout Sketch Draw North Arrow	Source Layout Sketch Draw North Arrow	Source Layout Sketch Draw North Arrow				
Emission Point X	Emission Point X	Emission Point X				
Sun to	Sun -¢-	Sun				
Wind 140°	Wind 140°	Wind				
Plume -		Plume				
Stack Sun Locator Line	Stack Sun Locator Line	Stack Sun Locator Line				
۰ ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰						
OBSERVER'S NAME (PRINT)	ORGANIZATION	ADDRESS				
Rosana Foco.	aningo & appointes, class	KOCK RECYCLERS				
OBSERVER'S SIGNATURE DATE	CERTIFIED BU	7500 Reaune Rd.				
Roanators 8/8/02	Eastern Echnical assoc	Newport, MI 48166				

SOURCE NAME						
	SOURCE NAME	SOURCE NAME				
ROCK RECYCLERS	ROCE RECYCLERS	Roce Recyclers				
SOURCE ID NUMBER	I SOORUE ID NOMBER	SOURCE ID NUMBER				
SCRI to CI4	. C14	C14 to C7				
PROCESS EQUIPMENT OPERATING MODE	PROCESS EQUIPMENT OPERATING MODE	PROCESS EQUIPMENT OPERATING MODE				
Screents Conveyor 350 TPH	Conveyor 350TpH	Concerno to Conner 3507 pt				
CONTROL EQUIPMENT U OPERATING MODE	CONTROL EQUIPMENT OPERATING MODE	CONTROL QUIPMENT O OPERATING MODE				
Water Lorous 1 "						
DESCRIBE EMISSION POINT	DESCRIBE EMISSION POINT	DESCRIBE EMISSION POINT				
START Anonoles STOP	START Point STOP V	START Joancher STOP -				
HT ABOVE GROUND LEVEL   HT RELATIVE TO OBSERVER	HT ASOVE GROUND LEVEL HT RELATIVE TO OBSERVER	HT ABOVE GROUND LEVEL HT RELATIVE TO OBSERVER				
START 44 STOP / START 24 STOP /	START OFF STOP V START OFF STOP V	START 1545TOP START 154-STOP2				
DISTANCE FROM OESERVER DIRECTION FROM OESERVER		DISTANCE FROM OBSERVER DIRECTION FROM OBSERVER				
START 30ASTOP START NE STOP	START 30 STOP 2 START NE STOP	START 30FTSTOP START NE STOP 4				
DESCRIBE EMISSIONS	DESCRIBE EMISSIONS	DESCRIBE EMISSIONS				
START Liqity & STOP	START Join PUP STOP	START Tugitive STOP				
EMISSION COLOR PLUME TYPE: CONTINUOUSE	EMISSION COLOR PLUME TYPE: CONTINUOUS	EMISSION COLOR PLUME TYPE: CONTINUOUS				
START BERLISTOP - FUGITIVE INTERMITTENT		START BOWN STOP / FUGITIVE INTERMITTENT				
WATER DROPLETS PRESENT: IF WATER DROPLET PLUME:	WATER DROPLETS PRESENT: IF WATER DROPLET PLUME:	WATER DROPLETS PRESENT: IF WATER DROPLET PLUME:				
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED		POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED				
START NA STOP -	START NA STOP	START NA STOP				
DESCRIBE BACKGROUND	DESCRIBE BACKGROUND	DESCRIBE BACKGROUND				
START Machinery. STOP	START Machinen STOP	START Machinen STOP				
BACKGROUND COLORI SKY CONDITIONS	BACKGROUND COLOR / SKY CONDITIONS	BACKGROUND COLOR / SKY CONDITIONS				
START BOLD STOP	START BEIGSTOP - START (Door STOP -	START & START CLOWSTOP				
MIND SPEED WIND DIRECTION	WIND SPEED WIND DIRECTION	WIND SPEED WIND DIRECTION				
START 5-10 STOP V START STOP	START 5 10 STOP START STOP	START 5-2 STOP - START STOP				
WEIENT TEMP WET BULB TEMP (RH %	AMBIENT TEMP WET BULB TEMP RH %	AMBIENT TEMP WET BULB TEMP RH %				
START 70 STOP	START 70 STOP	STARTTO STOP L				
		Source Layout Sketch Draw North Arrow				
	Entission Point X	Emission Point X				
1		- · · · · · · · · · · · · · · · · · · ·				
num de l'						
Sun +	Sun &	Sun 🔆				
Wind 140°	Plame = 140°	Plume _ 140°				
Stack Sun Locator Line	Stack Sun Locator Line	Stack Sun Locator Line				
•						
<u></u>		1				
DESERVER'S NAME (PRINT)	ORGANIZATION	ADDRESS				
Kosqua Foco.		ADDRESS Rock Recvoles, 7500 Recurs Ro.				
	Derenzo & Usascistes, elrc.	7500 Rearing Ro.				
DESERVER'S SIGNATURE DATE	CERTIFIED BY					
and the start						
DESERVERS SIGNATURE DATE Konnataci 8/8/02	Castern Technical Assoc. 2/09/02	Newport, MI 40166				

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### ATTACHMENT B

### THROUGHPUT RECORDS

				ROG	CK RECYC	LERS				
		3/8"	3/8"	3/8"			NT R3	TONS		
FEB		MINUS					PLANT HOURS	PER HOUR	HOURS	
2012	3/4" F	AP RAP	SRAP	RAP	1X3	21AA			WORKED	ТРМН
	No Or	eration in J	anuary 201	2						
1 W	ED				L				10	
2 77	u				,				10	
3 Fi	રા								11	İ
4 S/	α (								8	
		<b>_</b>		<b>_</b>			0	#DIV/0!	39.0	0
5 M		B ROAD - RE					<u> </u>	-Divi0:	39.0	<u> </u>
		TY MEETING							~~	
8 W						946	3.9	243	30.5	31
9 TI	IU AT TA	YLOR								
10 F						411	1.7	242		14
11 S.	AT .								6	0
70			-		-	1,357	6	242	96.5	14
13 M			,			1,784	7.2	248		44
14 TI						1,812	6.9	263		45
15 W	ED					1,743	6.7	260		43
16 TI	tU				168	1,067	4.5	274		33
<b>1</b> 7 F					97	766	4.4	196		21
18 S	AT -								19.0	0.00
70					265	7,172	30	250	221	34
20 M					157	1,351	5.4	279		37
21 T	μΞ				248	1,911	7.5	288		53
22 W	ED				195	1,466	6.6	252		35
23 TI					118	897	3.5	290		25
24 F					204	1,448	6.8	243		41
25 S	AT								6	
70	TAL		*		922	7,073	30	268	215	37
27 M					203	1568	6.9	257		44
28 T					175		6	243		33
29 W	ED rain	out								
70	TAL		-	*	378	2,851	13	250	84.5	38
	HEND									
TOTAL						18,453			655	

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	ROCK RECYCLERS											
	MAR	2/48 0 61	3/8" MINUS	euinci ee	3/8" MINUS	3/8" PLUS	()/0	~	PLANT HOURS	TONS PER HOUR	HOURS	
	2012	3/4" RAP		SHINGLES		RAP	1X3	21AA			WORKED	TPMH
				STOLED AGG	LEGATES						•	
	1 THU						103	816	5	204	40	23
	2 FRI									#DIV/0!	30	0
	3 SAT									#DIV/0!	6	0
	4 SUN											
· · · · ·	TOTAL		-	-	-	-	103	816	5	204	76.0	12
	5 MON		_ANT #5 R	OMULUS							30	
	6 TUE										33	
	7 WED		344		50				1.5		23	17
	8 THU		1134		147				5.2		24	53
	9 FRI 10 SAT		1839		173				7.2	279	25	80
	10 SAT 11 SUN										6	0
	TOTAL		3,317	-	370			_	14	265	141.0	26
	12 MON		1268		117				5	277	34.5	40
	13 TUE		1835		199				7	291	30	68
	14 WED		1952		200				6.8	316	31	69
	15 THU		2726		393				8.7	359	35	89
	16 FRI		2072		303				7.6	313	30	79
	17 SAT									•		
•	18 SUN	1						in the set				
	TOTAL	ц <del>-</del>	9,853	-	1,212	-	-	-	35		161	. 69
	19 MON		2101		267				6.9		40	59
	20 TUE		2045		263				7.3		30	77
	21 WEE		2317		348				8.1		39	68
	22 THU		2234		323				8.1			63
	23 FRI		1901		349				7.6	296		- 58
	24 SAT										10	
	25 SUN		10,598		1,550				38	320	198	C-4
	26 MON		1,730		255	-			<u> </u>		40	61 50
	20 MOR 27 TUE		1,100	91		1,947	317		6.1			59
	28 WED			114		2,284	355		7.5		40 40	69
	29 THU			143		2,498	393		8.8			67
	30 FRI			133		2,185	397		7.2		32	85
	31 SAT										6	
	TOTA		1,730	481	255	8,914	1,462		36	361	203.0	63
	MONTH	END	25,498	481	3,387	8,914	1,565	816	127	320		52

24       TUE       #DIV/0!       #DIV/0!       #DIV/0!         25       WED       #DIV/0!       #DIV/0!       #DIV/0!         26       THU       #DIV/0!       #DIV/0!       #DIV/0!         26       THU       #DIV/0!       #DIV/0!       #DIV/0!         27       FRI       1177       98       4       327       #DIV/0!         28       SAT       1205       106       4       328       #DIV/0!         29       SUN													
APRIL 2012         3/8" 3/8"         NINUS MINUS         3/8" 3/8"         P1US PLUS         FPUS SHINGLES         FPUS METRO         FPUS FUS FUS FUS FUS FUS FUS FUS FUS FUS F													
APRIL 2012         3/8" 3/8"         NINUS MINUS         3/8" 3/8"         P1US PLUS         FPUS SHINGLES         FPUS METRO         FPUS FUS FUS FUS FUS FUS FUS FUS FUS FUS F													
APRIL 2012         3/8" 3/8"         NINUS MINUS         3/8" 3/8"         P1US PLUS         FPUS SHINGLES         FPUS METRO         FPUS FUS FUS FUS FUS FUS FUS FUS FUS FUS F													Ī
APRIL 2012         3/8" 3/8"         NINUS MINUS         3/8" 3/8"         P1US PLUS         FPUS SHINGLES         FPUS METRO         FPUS FUS FUS FUS FUS FUS FUS FUS FUS FUS F													
APRIL 2012         3/8" (AJAX PLANT #S ROMULUS AJAX PLANT #S ROMULUS         3/8" SRAP PLUS         P219 SHINGLES         P219 METRO         2 4 4         00/07 5         10/07 7         3/64         #DIV/01 FDIV/01           1         1000         2410         551         122         8.7         3/64         #DIV/01           4         VED         MOVE PLANT IN YARD         4         258         #DIV/01           5         THU         1032         4         258         #DIV/01           6         FRI         1998         8         24         #DIV/01           3         TOTE         2300         -         3,920         848         215         -         27.1         292         0.0 #DIV/01           3         FRI         2046         8         295         #DIV/01           10         TUE         2331         6         267         #DIV/01           13         FRI         2046         7         284         #DIV/01           14         SAT         1,572         7         284         #DIV/01         #DIV/01           15         SUN         -         -         -         44         280         0.0 #DIV/01			<u>ROCK RI</u>	ECYCLEF	<u> 25</u>								
AJAX PLANT #5 ROMULUS         2410         551         122         8.7         354         #DIV/01           3 <tue< td="">         1510         297         93         6.7         284         #DIV/01           4         WED         MOVE PLANT IN YARD         4         258         #DIV/01           5<thu< td="">         1032         4         258         #DIV/01           6<fri< td="">         1898         8         246         #DIV/01           7<sat< td="">         30         -         3,920         848         215         -         27.1         292         0.0 #DIV/01           9         MCN         2303         8         284         #DIV/01         10         TUE         231         8         295         #DIV/01           10<tue< td="">         2331         8         284         #DIV/01         12         THU         2046         7         284         #DIV/01           13<fri< td="">         2046         7         284         #DIV/01         12         THU         14         SAT         1970         15         #DIV/01         14         284         #DIV/01         14         284         #DIV/01         14         284         #DIV/01         14         <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1 2 2 2 4</td><td>TONS DED</td><td></td><td></td></t<></fri<></tue<></sat<></fri<></thu<></tue<>										1 2 2 2 4	TONS DED		
AJAX PLANT #5 ROMULUS         2410         551         122         8.7         354         #DIV/01           3 <tue< td="">         1510         297         93         6.7         284         #DIV/01           4         WED         MOVE PLANT IN YARD         4         258         #DIV/01           5<thu< td="">         1032         4         258         #DIV/01           6<fri< td="">         1898         8         246         #DIV/01           7<sat< td="">         30         -         3,920         848         215         -         27.1         292         0.0 #DIV/01           9         MCN         2303         8         284         #DIV/01         10         TUE         231         8         295         #DIV/01           10<tue< td="">         2331         8         284         #DIV/01         12         THU         2046         7         284         #DIV/01           13<fri< td="">         2046         7         284         #DIV/01         12         THU         14         SAT         1970         15         #DIV/01         14         284         #DIV/01         14         284         #DIV/01         14         284         #DIV/01         14         <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>100</td><td>HOUR</td><td></td><td></td></t<></fri<></tue<></sat<></fri<></thu<></tue<>										100	HOUR		
2         MON         2410         551         122         3.7         354         #DIV/01           3         TUE         1510         297         93         6.7         284         #DIV/01           5         THU         1032         4         256         #DIV/01           5         THU         1032         4         256         #DIV/01           7         SAT         8         246         #DIV/01           9         MCM         2303         8         246         #DIV/01           10         TUE         2331         8         285         #DIV/01           10         TUE         2331         8         267         #DIV/01           11         WED         1233         8         267         #DIV/01           12         THU         2113         8         267         #DIV/01           14         SAT         1,972         7         282         #DIV/01           15         SUN         7         284         #DIV/01         #DIV/01           15         NON         4         280         0.0         #DIV/01           16         MON [MOVE AJAX PLANT #2 AUBURN	20					SRAP	PLUS	SHINGLES	METRO			WORKED	TPMH
3       TUE       1510       297       93       5.7       284       #DIV/01         4       WED       MOVE PLANT IN YARD       3       4       258       #DIV/01         5       TRU       1032       4       258       #DIV/01         6       FRI       1898       3       246       #DIV/01         7       SAT       8       248       #DIV/01         9       MON       2303       6       284       #DIV/01         9       MON       2303       6       267       #DIV/01         10       TUE       2331       8       265       #DIV/01         11       WED       1603       6       267       #DIV/01         13       FRI       2046       7       284       #DIV/01         14       SAT       1,972       7       282       #DIV/01         15       SUN        7       284       #DIV/01       #DIV/01         15       SUN        7       282       #DIV/01       #DIV/01       #DIV/01         16       MON MOVE ALAX PLANT #2 AUBURN HILLS       #DIV/01       #DIV/01       #DIV/01       #DIV/01	2		AJAX PLA		IULUS	2410	551	172		27	254		#D11/01
4       WED       MOVE PLANT IN YARD         5       THU       1032       4       258       #DIV/01         5       THU       1032       8       246       #DIV/01         7       SAT       8       246       #DIV/01         9       MON       2303       8       245       #DIV/01         9       MON       2303       8       245       #DIV/01         10       TUE       2331       8       295       #DIV/01         11       WED       1603       6       267       #DIV/01         13       FRI       213       8       245       #DIV/01         14       SAT       1,972       7       282       #DIV/01         15       SUN       7       284       #DIV/01       #DIV/01         15       SUN       7       282       #DIV/01       #DIV/01       #DIV/01         16       MON       MOVE AJAX PLANT #2 AUBURN HILLS       #DIV/01       #DIV/01       #DIV/01         16       WED       #DIV/01       #DIV/01       #DIV/01       #DIV/01       #DIV/01         23       MON       MON       20       PRI       #													1
5       THU       1032       4       258       #DIVIOI         6       FRI       1898       3       248       #DIVIOI         7       SAT       3       SUN       3       248       #DIVIOI         70742       2.930       -       3.920       848       215       -       27.1       292       0.0       #DIVIOI         9       MCN       2303       8       295       #DIVIOI       10       TUE       2331       8       295       #DIVIOI         10       TUE       2331       8       295       #DIVIOI       12       THU       2113       8       295       #DIVIOI         12       THU       2046       7       284       #DIVIOI       14       SAT       1,972       7       282       #DIVIOI         15       SUN       7       284       #DIVIOI						1010	64.4			0.7	204		
6       FRI       1898       8       246       #DIV/0!         7       SAT       3       SUN       7       2230       -       3,920       848       215       -       27.1       292       0.0       #DIV/0!         9       MON       2303       6       234       #DIV/0!       10       TUE       2331       8       246       #DIV/0!         10       TUE       2331       6       225       #DIV/0!       10       12       256       #DIV/0!       10       12       256       #DIV/0!       11       WED       13       FRI       2046       7       284       #DIV/0!       11       14       SAT       1,872       7       252       #DIV/0!       11       14       SAT       1,972       7       252       #DIV/0!       11       15       MON       10       10       10       10       10       11       11       10       #DIV/0!       #DIV/0! <t< td=""><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td><td>258</td><td></td><td># </td></t<>		•								4	258		# 
7       SAT         3       SUN         70724       2.930       -       3.920       848       215       -       27.1       292       0.0<#DN/01													
TOTAL         2,930         -         3,920         843         215         -         27.1         292         0,0         #DIV/01           9         MCN         2303         8         234         #DIV/01           10         TUE         2331         8         295         #DIV/01           11         WED         1603         6         267         #DIV/01           12         THU         2113         8         267         #DIV/01           13         FRI         2046         7         284         #DIV/01           15         SUN         7         282         #DIV/01         #DIV/01           15         SUN         7         282         #DIV/01         #DIV/01           15         SUN         7         282         #DIV/01         #DIV/01           16         MON  MOVE AJAX PLANT #2 AUBURN HILLS         #DIV/01         #DIV/01         #DIV/01           16         MON  MOVE AJAX PLANT #2 AUBURN HILLS         #DIV/01         #DIV/01         #DIV/01           16         MON  MOVE AJAX PLANT #2 AUBURN HILLS         #DIV/01         #DIV/01         #DIV/01           20         FRI         #DIV         #DIV/01	7	SAT											
9       MON       2303       \$       284       #DIV/01         10       TUE       2331       \$       295       #DIV/01         11       WED       1603       \$       295       #DIV/01         12       THU       2113       \$       295       #DIV/01         13       FRI       2046       7       284       #DIV/01         14       SAT       1,972       7       262       #DIV/01         15       SUN       7       284       #DIV/01       #DIV/01         15       SUN       7       282       #DIV/01       #DIV/01         16       MON [MOVE AJAX PLANT #2 AUBURN HILLS]       #VALUE!       ######         17       TUE       #DIV/01       #DIV/01       #DIV/01         18       WED       #DIV/01       #DIV/01       #DIV/01         20       FRI       #DIV/01       #DIV/01       #DIV/01         21       SAT       YALUE!       ######       #DIV/01       #DIV/01         22       SUN       YALUE!       #####       #DIV/01       #DIV/01       #DIV/01         23       MON       YALUE!       #DIV/01       #DIV/01	3	SUN										-	
10       TUE       2331       6       295       #DIV/01         11       WED       1603       6       267       #DIV/01         13       FRI       2046       7       284       #DIV/01         14       SAT       1,972       7       282       #DIV/01         15       SUN       7       284       #DIV/01       #DIV/01         16       MON       MOVE AJAX PLANT #2 AUBURN HILLS       #VALUE!       #######         17       TUE       #DIV/01       #DIV/01       #DIV/01         18       WED       #DIV/01       #DIV/01       #DIV/01         19       THU       #DIV/01       #DIV/01       #DIV/01         20       FRI       #DIV/01       #DIV/01       #DIV/01         21       SAT       -       -       -       0       #DIV/01       #DIV/01         23       MON       #DIV/01       <					-	3,920	848	215	-				
11       WED       1803       6       267       #DIV/01         12       THU       2113       8       267       #DIV/01         13       FRI       2046       7       284       #DIV/01         14       SAT       1,972       7       262       #DIV/01         15       SUN       7       284       #DIV/01       #DIV/01         15       SUN       7       282       #DIV/01       #DIV/01         16       MON [MOVE AJAX PLANT #2 AUBURN HILLS       -       -       44       280       0.0 #DIV/01         18       WED       #DIV/01       #DIV/01       #DIV/01       #DIV/01       #DIV/01         19       THU       #DIV/01       #DIV/01       #DIV/01       #DIV/01         20       FRI       #DIV/01       #DIV/01       #DIV/01       #DIV/01         21       SAT       -       -       -       0       #DIV/01       #DIV/01         22       SUN        #DIV/01       #DIV/01       #DIV/01       #DIV/01       #DIV/01         23       MON        #DIV/01       #DIV/01       #DIV/01       #DIV/01       #DIV/01       #DIV/01													
12       THU       2113       8       267       #DIV/01         13       FRI       2046       7       284       #DIV/01         14       SAT       1,972       7       262       #DIV/01         15       SUN       7       262       #DIV/01         16       MON [MOVE AJAX PLANT #2 AUBURN HILLS]       #VALUE!       ####################################													
13       FRI       2046       7       284       #DIV/01         14       SAT       1,972       7       282       #DIV/01         15       SUN       7       282       #DIV/01         16       MON MOVE AJAX PLANT #2 AUBURN HILLS       #ALUE!       ####################################													
14       SAT       1,972       7       282       #DIV/0!         15       SUN       77       282       #DIV/0!         7       77       282       #DIV/0!         15       SUN       12,358       -       -       -       44       280       0.0       #DIV/0!         16       MON       MOVE AJAX PLANT #2 AUBURN HILLS       #VALUE!       ####################################													
15         SUN           707x4         12,358         -         -         -         -         44         280         0.0 #DIV/0!           16         MON MOVE AJAX PLANT #2 AUBURN HILLS         #VALUE!         #######           17         TUE         #DIV/0!         #DIV/0!         #DIV/0!           18         WED         #DIV/0!         #DIV/0!         #DIV/0!           19         THU         #DIV/0!         #DIV/0!         #DIV/0!           20         FRI         #DIV/0!         #DIV/0!         #DIV/0!           21         SAT         #DIV/0!         #DIV/0!         #DIV/0!           22         SUN         #DIV/0!         #DIV/0!         #DIV/0!           23         MON         #DIV/0!         #DIV/0!         #DIV/0!           24         TUE         #DIV/0!         #DIV/0!         #DIV/0!           25         WED         #DIV/0!         #DIV/0!         #DIV/0!           26         THU         #DIV/0!         #DIV/0!         #DIV/0!           26         THU         #DIV/0!         #DIV/0!         #DIV/0!           28         SAT         1205         106         4         328													
16       MON       MOVE AJAX PLANT #2 AUBURN HILLS       #VALUE!       #######         17       TUE       #DIV/0!       #DIV/0!       #DIV/0!         18       WED       #DIV/0!       #DIV/0!       #DIV/0!         19       THU       #DIV/0!       #DIV/0!       #DIV/0!         20       FRI       #DIV/0!       #DIV/0!       #DIV/0!         21       SAT       #DIV/0!       #DIV/0!       #DIV/0!         22       SUN       #DIV/0!       #DIV/0!       #DIV/0!         23       MON       #DIV/0!       #DIV/0!       #DIV/0!         24       TUE       #DIV/0!       #DIV/0!       #DIV/0!         25       WED       #DIV/0!       #DIV/0!       #DIV/0!         25       WED       #DIV/0!       #DIV/0!       #DIV/0!         26       THU       #DIV/0!       #DIV/0!       #DIV/0!         28       SAT       1205       106       4       328       #DIV/0!         29       SUN       -       -       -       8       327       0.0       #DIV/0!         30       MON       2049       268       7       317       #DIV/0! <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>													
17       TUE       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         18       WED       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         19       THU       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         20       FRI       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         21       SAT       #DIV/0!       #DIV/0!       #DIV/0!         22       SUN       *DIV/0!       #DIV/0!       #DIV/0!         23       MON       #DIV/0!       #DIV/0!       #DIV/0!         24       TUE       #DIV/0!       #DIV/0!       #DIV/0!         25       WED       #DIV/0!       #DIV/0!       #DIV/0!         26       THU       #DIV/0!       #DIV/0!       #DIV/0!         26       THU       #DIV/0!       #DIV/0!       #DIV/0!         28       SAT       1205       106       4       328       #DIV/0!         29       SUN       7       317       #DIV/0!       #DIV/0!         30       MON       2049       268       7       317       #DIV/0!         100       MONTH END       -       -       -       7							-		-			0.0	#DIV/0!
18       WED       #DIV/0!       #DIV/0!       #DIV/0!         19       THU       #DIV/0!       #DIV/0!       #DIV/0!         20       FRI       #DIV/0!       #DIV/0!       #DIV/0!         21       SAT       #DIV/0!       #DIV/0!       #DIV/0!         22       SUN       #DIV/0!       #DIV/0!       #DIV/0!         23       MON       #DIV/0!       #DIV/0!       #DIV/0!         23       MON       #DIV/0!       #DIV/0!       #DIV/0!         24       TUE       #DIV/0!       #DIV/0!       #DIV/0!         25       WED       #DIV/0!       #DIV/0!       #DIV/0!         26       THU       #DIV/0!       #DIV/0!       #DIV/0!         27       FRI       1177       98       4       327       #DIV/0!         28       SAT       1205       106       4       328       #DIV/0!         29       SUN       Torat       -       2,382       204       -       -       -       8       327       0.0       #DIV/0!         30       MON       2049       268       7       317       #DIV/0!         MONTH END </td <td></td> <td></td> <td>MOVE AJAX</td> <td>PLANT #2 A</td> <td>UBURN</td> <td>HILLS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			MOVE AJAX	PLANT #2 A	UBURN	HILLS							
19       THU       #DIV/0!       #DIV/0!       #DIV/0!         20       FRI       #DIV/0!       #DIV/0!       #DIV/0!         21       SAT       #DIV/0!       #DIV/0!       #DIV/0!         22       SUN       70744       -       -       -       0       #DIV/0!       #DIV/0!         23       MON       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         23       MON       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         24       TUE       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         25       WED       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         25       WED       #DIV/0!       #DIV/0!       #DIV/0!         26       THU       #DIV/0!       #DIV/0!       #DIV/0!         28       SAT       1205       106       4       328       #DIV/0!         29       SUN       Torat       -       2,382       204       -       -       -       8       327       0.0       #DIV/0!         30       MON       2049       268       7       317       #DIV/0!       #DIV/0!      M													
20       FRI       #DIV/0!       #DIV/0!       #DIV/0!         21       SAT       #DIV/0!       #DIV/0!       #DIV/0!         22       SUN       -       -       -       0       #DIV/0!       #DIV/0!         23       MON       -       -       -       -       0       #DIV/0!       #DIV/0!         23       MON       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         24       TUE       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         25       WED       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         25       THU       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         26       THU       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         28       SAT       1205       106       4       323       #DIV/0!         29       SUN       -       -       -       8       327       0.0       #DIV/0!         30       MON       2049       268       7       317       #DIV/0!         100       -       -       -       -													
21       SAT       #DIV/0!       #DIV/0!       #DIV/0!         22       SUN       ************************************													
22 SUN         7072L       -       -       -       0       #DIV/0!       0.0       #DIV/0!         23 MON       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         24 TUE       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         25 WED       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         26 THU       #DIV/0!       #DIV/0!       #DIV/0!       #DIV/0!         26 THU       1177       98       4       327       #DIV/0!         28 SAT       1205       106       4       328       #DIV/0!         29 SUN       707AL       -       2,382       204       -       -       -       8       327       0.0       #DIV/0!         30 MON       2049       268       7       317       #DIV/0!         MONTH END													
TOTAL         -         -         -         -         0         #DIV/0!         0.0         #DIV/0!           23         MON         #DIV/0!         #DIV/0!         #DIV/0!         #DIV/0!         #DIV/0!           24         TUE         #DIV/0!         #DIV/0!         #DIV/0!         #DIV/0!           25         WED         #DIV/0!         #DIV/0!         #DIV/0!         #DIV/0!           26         THU         #DIV/0!         #DIV/0!         #DIV/0!         #DIV/0!           26         THU         #DIV/0!         #DIV/0!         #DIV/0!         #DIV/0!           27         FRI         1177         98         4         327         #DIV/0!           28         SAT         1205         106         4         328         #DIV/0!           29         SUN         -         -         -         8         327         0.0         #DIV/0!           30         MON         2049         268         7         317         #DIV/0!           10         -         4,431         472         -         -         -         7         672         0.0         #DIV/0!													
23 MON       #DIV/0!       #DIV/0!       #DIV/0!         24 TUE       #DIV/0!       #DIV/0!       #DIV/0!         25 WED       #DIV/0!       #DIV/0!       #DIV/0!         26 THU       #DIV/0!       #DIV/0!       #DIV/0!         27 FRI       1177       98       4       327       #DIV/0!         28 SAT       1205       106       4       328       #DIV/0!         29 SUN       707AL       -       2,382       204       -       -       -       8       327       0.0 #DIV/0!         30 MON       2049       268       7       317       #DIV/0!         MON         TOTAL       -       4.431       472       -       -       -       7       672       0.0 #DIV/0!         MONTH END		TOTAL	-		-					D			#D <b>IV</b> /0!
25       WED       #DIV/0!       #DIV/0!       #DIV/0!         26       THU       #DIV/0!       #DIV/0!       #DIV/0!         27       FRI       1177       98       4       327       #DIV/0!         28       SAT       1205       106       4       328       #DIV/0!         29       SUN       -       -       -       8       327       0.0 #DIV/0!         30       MON       2049       268       7       317       #DIV/0!         1074L       -       4,431       472       -       -       -       7       672       0.0 #DIV/0!         MONTH END       -       -       -       7       672       0.0 #DIV/0!       10!													#DIV/0!
26       THU       #DIV/0!       #DIV/0!       #DIV/0!         27       FRI       1177       98       4       327       #DIV/0!         28       SAT       1205       106       4       328       #DIV/0!         29       SUN       -       2,382       204       -       -       8       327       0.0       #DIV/0!         30       MON       2049       268       7       317       #DIV/0!         TOTAL       -       4,431       472       -       -       7       672       0.0       #DIV/0!													#DIV/0!
27       FRI       1177       98       4       327       #DIV/0!         28       SAT       1205       106       4       328       #DIV/0!         29       SUN       -       2,382       204       -       -       8       327       0.0 #DIV/0!         30       MON       2049       268       7       317       #DIV/0!													
28       SAT       1205       106       4       328       #DIV/01         29       SUN       -       2,382       204       -       -       8       327       0.0       #DIV/01         30       MON       2049       268       7       317       #DIV/01				44'77	00					,			
29       SUN         707AL       -       2,382       204       -       -       -       8       327       0.0 #DIV/0!         30       MON       2049       268       7       317       #DIV/0!													
TOTAL       -       2,382       204       -       -       -       8       327       0.0 #DIV/0!         30       MON       2049       268       7       317       #DIV/0!				1200	100					4	920		#DIA107
30 MON 2049 268 7 317 #DIV/0! 				2,382	204		<del>-</del>		<u> </u>	8	327	0.0	#DIV/0!
													#DIV/0!
MONTH END													
MONTH END													
MONTH END													
MONTH END													
MONTH END		TOTAL		4.431	472				-	7	672	0.0	#DIV/01
										•			
				6,813	676	3,920	848	215	-	86	321		#D <b>IV/0</b> !

MAY					OCK RE						
2012	3/4" RAP	3/8** MINUS	-	3/8" MINUS SRAP	3/8" PLUS	SHINGLES	P219 METRO	PLANT HOURS	TONS PER HOUR	HOURS	ТРМН
	AJAX PLAN			0.04	1 200	0	METRO	<u>t</u>			17 8881
I TUE		1,216	209						#DIV/0!	33.5	43
2. WED		1,650	282						#DIV/0!	33	59
; THŲ		2,057	270						#DIV/0!	33	71
FRI				1,212	203	67		5	296	33	45
SAT				276	38			1	327	26	13
TOTAL		4,923	761	1,488	241	80		6	1249	158.5	47
MON				2,379	394			8.6	338		
TUE				1, <del>5</del> 97	268			5.2	382		61
WED	I Contraction of the second			2,749	425			8.9	371	32.5	101
о тни				2,739	423			9	367	33	100
1 FRI				2,331	450	127		7.5	388		91
2 SAT	1724							6.1		18.5	
3 SUN		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·					
TOTAL	·	-	-	11,795	1,960	645	-	45	356	181.5	89
4 MON								10.2	311	33.5	95
5 TUE	2760							8.4	329		80
	AJAX PLA	NT#3 CRC	OKS RD							33	
7 THU										31	0
8 FRI				871	215	45		4	283	20	57
9 SAT											
0 SUN				~~~				~~~			
TOTAL		-	-	871	215	45		23		152.00	46
1 MON				2,205	416			9.2	297		78
2 TUE				2,506	385			9.5	317		86
3 WED				2,335 900	416			9.8	292		82
4 THU				900	239	40		3	393		34
5 FRI										10	
26 SAT 27 SUN											
			·····	7,946	1,456	383		32	311	150	65
TOTAL R MON	 MEMORIAL	- 	-	1,340	1,400			32		150	60
29 TUE				,2,010	445	87		8.7	292	35	73
9 102 80 WED				2,010	440 499			10.2	290		73 86
о wec 1 тни				2,340	499 426			8.2	302		63
			· .	1,300	420	31		0,2	302	22,3	60
TOTAL				6,300	1,370	299	-	27	294	109	73

												F
					r					-		
		······				ROCK REC	YULERS		<u> </u>			
			0.07		3/8"				PLANT HOURS	TONS PER		
1	JUNE	2/45 040	3/8"	3/8" PLUS	MINUS			P219	PLA PLA	HOUR	HOURS	
	2012	3/4" RAP	MINUS	RAP	SRAP	3/8" PLUS	SHINGLES	METRO			WORKED	TPMH
		AJAX PLANT	#3 CRUUI	KS RD	1							
	1 501				1701	464	95		7	342	06 E	95
					1701	404	30		1	342		85
	2 SAT 3 SUN										12	
<b>ب</b> ا	TOTAL				1,701	464	95		7	357	39	59
	4 MON				2277				9.6	309		85
	5 TUE				1955				7.7	314		66
ě					1000	402	•		8.8	346		95
-									8.4	356		92
	B FRI								1.5	291		13
	9 SAT									231	20.0	10
	0 SUN										. 20.0	
, Li	TOTAL			-	4,232	1,155			36	329	188.5	63
1		I AJAX PLANT	#6 BRIGH		T						33	
	2 TUE	· · · · · · · · · · · · · · · · · · ·			4						33	
1	3 WED	940							3.4	276		28
	4 THU								5.1	324		50
	5 FRI										29	
	6 SAT						· .				6.0	
1	7 SUN	ł										
Γ	TOTA	2,592	· ·						9	305	167.5	15
1	18 MON	1,952							6.1	320	32	61
1	19 TUE										31	
2	20 WED	DOWN									- 28	
2	21 THU								3.4	150		13
2	2 FRI	DOWN									25.5	
2	23 SAT	-									6.0	
_2	24 SUN											
l_	TOTA		-	-		-			10	259		
	25 MON								3.4			
	26 TUE		412					÷	9.2			
	27 WED		450	38					8.1	311		
	28 THL				1630				6			
	29 FRI				2084				7.2			
	30 SAT				1766				6.8			84.85
	TOTA		362	81	7,280	1,002	474		41	305	177.5	
	NONTH			~ ~	10.010	~~~-	500		404	~~~	707	10
T	OTALS	13,769	862	81	13,213	2,621	569		101	307	735	43

		<u>,                                     </u>		<del>ر</del>		RUCK	RECYCLE			,	
n	11 V		2/08		3/8"	0.001		PLANT HOURS	TONS		
	JLY )12	3/4" RAP	3/8" MINUS		MINUS SRAP	3/8" PLUS		PLA Hou	PER HOUR	HOURS	
		AJAX PLAI			SRAF	PLUS	SHINGLES			WORKED	TPMH
2	MON			<u></u> (	1458	218	123	5	375	30	60
3	TUE				2256	338	175	8	338	30	92
4	WED									8	
5	THU				1653	247	138	6	329	29	70
6	FRI				1791	268	129	7	304	30	73
7	SAT									24	
8	SUN										
	TOTAL	-	-	-	7,158	1,071	565	26	355	151	58
9	MON		NT #2 BA	<u>D MTN</u>				• •		38	
10	TUE	612						2.2		36	17
11 12	WED	2,533						8.2 10.5		34	75 93
12	thu Fri	3,265 3,317						10.5	311 319	35 33.5	99
14	SAT	1,866							300.97	26.5	70.42
15	SUN	1,000						0.2	500.51	20.0	10.42
	TOTAL	11,593			-	-		38	309	203.0	57
16	MON	AJAX PLA	NT #1 NE	W HAVE	N					33	
17	TUE	901						2.9	311	31	29
18	WED	2,269						7.9	287	35	65
19	THU	1,403						3.9	360	35	40
20	FRI	2,340						7.9	296		69
21	SAT				1344	188	67	5.1	314	30	- 53
_22	SUN										
	TOTAL	6,913			0444			28		And the second sec	35
23	MON	AJAX PLA	NET HE INIL	OTED ]	2111	353	139	7.5	347	33	79
24 25	TUE WED	AJAN PLA		SIER	705	105	37	2.4	353	33 31.5	27
25 26	THU				2533	379		2.4			98
20	FRI				2000 1945	291		6.5			78
28	SAT				1040	201		0.0		26.0	
29	SUN									20.0	
	TOTAL			-	7,294	1,128	443	25	372	185.0	48
30	MON				2484	298		7.5			93
31	TUE				2630	368		8.2		31.5	99
	TOTAL		-	-	5,114	666	260	16	401	63.0	96
	NTH E										
~~~	ALS	18,506	-	-	19,566	2,865	1,268	132	319	800	53

					ROCK	RECYCLI	ERS				
AUG 2012	3/4" RAP	3/8" MINUS		3/8" MINUS SRAP	3/8" PLUS	SHINGLE S	P219 METRO	PLANT HOURS	tons Per Hour	HOURS WORKED	ТРМН
	AJAX PLAN										
	<u></u>										
1 WED				2530	379	142		8	407	31.5	97
2 THU		N								31	
3 FRI	. 0-011 0011									23.5	
4 SAT										20.0	
5 SUN											
TOTAL		 +	_	2,530	379	142		8	426	86	35
6 MON				<u> </u>		<u></u>	·	8,2	342		267
								5.9	342		107
								5.9 7.9	344		136
8 WED		<b>1</b>						1.9	344		130
9 THU	PLANT DOW	iN								26	
10 FRI		•									
11 SAT											
12 SUN		/									
TOTAL		-		-				22	348		100
13 MON	•							4.9	350		50
14 TUE	-							3.2	378		40
15 WED								6.9	340		78
16 THU	2,401							7.7	312		80
17 FRI										9	
18 SAT										6.0	
<u>19 SUN</u>							<u> </u>				
TOTAL								23	338		55
20 MON								5.8	312		60
21 TUE								7.9	332		87
22 WED								6.9	326		- 66
23 THU	AJAX PLA	NT #3 CRO	DKS			<i>e</i>				35.5	
24 FRI										31.5	
25 SAT		749	112					2.9	297	· 24	36
26 SUN											
TOTAL	6,674	749	112	<b>1</b>	<u> </u>			24	321	185.0	41
27 MON		1551	170				·	5.2	331		57
28 TUE		2352	232					7.9	327		86
29 WED		2414	289					8.1	334		90
30 THU		2122	210					6.7	348		
31 FRI					•				- /0	8	
										Ŷ	
TOTAL		8,439	901			-		28	335	128.0	73
MONTH E								<u> </u>			
MONTE											
TOTALS		9,188	1,013	2,530	379	142		104	340	615	58

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	12	3/4" RAP AJAX PLAN AJAX PLAN - HOLIDAY 2,771 1,339 2,594 - 6,704 2,254 2,381 2,784 MAINTENA	2149	3/8" PLUS RAP DOKS 236	3/8" MINUS SRAP	3/8" PLUS	SHINGLES	P219 METRO	инута 1 али 1 1 али 1	TONS PER HOUR #DIV/0! #DIV/0! 322 342 335 328 328 327 327 322	HOURS WORKED 30 30 31 31 122.0 30 30 30	TPM #DIV #DIV/
20 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	SAT SUN TOTAL MON TUE WED THU FRI SUN TOTAL MON TUE DITAL MON TUE DITAL MON TUE DITAL MON TUE DITAU	AJAX PLAN 	MINUS VT #3 CRC - 2149 2,149	<b>RAP</b> DOKS	SRAP	PLUS		1 · · · ·	0 7.4 8.1 4 7.9 27 6.9	HOUR #DIV/0! #DIV/0! 322 342 335 328 332 327	WORKED - 30 31 31 31 122.0 30 30	#DIV/
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	SAT SUN TOTAL MON TUE THU FRI SAT SUN TUE MON TUE WED THU	AJAX PLAN 	<u>vT #3 CRC</u>  2149  2,149	<u>-</u> 236				METRO	0 7.4 8.1 4 7.9 27 6.9	#DIV/0! #DIV/0! 322 342 335 328 332 332	- 30 31 31 122.0 30 30	#DIV/
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	SAT SUN TOTAL MON TUE D THU FRI SAT SUN TUE MON TUE MON TUE MON TUE D THU	HOLIDAY 2,771 1,339 2,594 6,704 2,254 2,381 2,784	2149	236				· · · · · · · · · · · · · · · · · · ·	7.4 8.1 4 7.9 <u>27</u> 6.9	#DIV/0! 322 342 335 328 332 332	30 30 31 31 <u>122.0</u> 30 30	#DIV
2 3 4 5 6 7 8 9 9 10 11 12 13 14 15 16 17 18	TOTAL MON TUE WED THU FRI SAT SUN TOTAL MON TUE MON TUE MON THU THU	2,771 1,339 2,594 <u>6,704</u> 2,254 2,381 2,784	2149	236	·				7.4 8.1 4 7.9 <u>27</u> 6.9	#DIV/0! 322 342 335 328 332 332	30 30 31 31 <u>122.0</u> 30 30	#DIV
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	TOTAL MON TUE WED THU FRI SAT SUN TOTAL MON TUE MON TUE MON THU THU	2,771 1,339 2,594 <u>6,704</u> 2,254 2,381 2,784	2149	236	·			······································	7.4 8.1 4 7.9 <u>27</u> 6.9	#DIV/0! 322 342 335 328 332 332	30 30 31 31 <u>122.0</u> 30 30	#DIV
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	TOTAL MON TUE WED THU FRI SAT SUN TOTAL MON TUE MON TUE MON THU THU	2,771 1,339 2,594 <u>6,704</u> 2,254 2,381 2,784	2149	236	·			``````````````````````````````````````	7.4 8.1 4 7.9 <u>27</u> 6.9	#DIV/0! 322 342 335 328 332 332	30 30 31 31 <u>122.0</u> 30 30	#DIV
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	TOTAL MON TUE WED THU FRI SAT SUN TOTAL MON TUE MON TUE MON THU THU	2,771 1,339 2,594 <u>6,704</u> 2,254 2,381 2,784	2149	236	·			······································	7.4 8.1 4 7.9 <u>27</u> 6.9	#DIV/0! 322 342 335 328 332 332	30 30 31 31 <u>122.0</u> 30 30	#DIV/
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	TOTAL MON TUE WED THU FRI SAT SUN TOTAL MON TUE MON TUE MON THU THU	2,771 1,339 2,594 <u>6,704</u> 2,254 2,381 2,784	2149	236	·			······································	7.4 8.1 4 7.9 <u>27</u> 6.9	322 342 335 328 <u>332</u> 327	30 30 31 31 <u>122.0</u> 30 30	
3 4 5 6 7 8 9 9 10 11 12 13 14 15 16 17 18	MON TUE WED THU FRI SAT SUN 7074L MON TUE WED THU	2,771 1,339 2,594 <u>6,704</u> 2,254 2,381 2,784	2149	236				· · · · · · · · · · · · · · · · · · ·	7.4 8.1 4 7.9 <u>27</u> 6.9	322 342 335 328 <u>332</u> 327	30 30 31 31 <u>122.0</u> 30 30	
4 5 6 7 8 9 9 10 11 12 13 14 15 16 17 18	TUE WED THU FRI SAT SUN 707AL MON TUE WED THU	2,771 1,339 2,594 <u>6,704</u> 2,254 2,381 2,784	2,149				. <u>-</u>		8.1 4 7.9 <u>27</u> 6.9	342 335 328 <u>332</u> 327	30 31 31 <u>122.0</u> 30 30	75
5 6 7 8 9 9 10 11 12 13 14 15 16 17 18	WED THU FRI SAT SUN TOTAL MON TUE WED THU	1,339 2,594 <u>6,704</u> 2,254 2,381 2,784	2,149		<b>P</b>		<u> </u>	×	8.1 4 7.9 <u>27</u> 6.9	342 335 328 <u>332</u> 327	30 31 31 <u>122.0</u> 30 30	75
6 7 8 9 10 11 12 13 14 15 16 17 18	THU FRI SAT SUN TOTAL MON TUE WED THU	1,339 2,594 <u>6,704</u> 2,254 2,381 2,784		236			· · · · · · · · · · · · · · · · · · ·	×	4 7.9 <u>27</u> 6.9	335 328 <u>332</u> 327	31 31 <u>122.0</u> 30 30	75
7 8 9 10 11 12 13 14 15 16 17 18	FRI SAT SUN TOTAL MON TUE WED THU	2,594 6,704 2,254 2,381 2,784		236			. <b> </b>	, 	7.9 <u>27</u> 6.9	328 332 327	31 <u>122.0</u> 30 30	75
8 9 10 11 12 13 14 15 16 17 18	SAT SUN TOTAL MON TUE WED THU	6,704 2,254 2,381 2,784		236			<b></b>	۰ 	<u>27</u> 6.9	<u>332</u> 327	122.0 30 30	75
9 10 11 12 13 14 15 16 17 18	SUN TOTAL MON TUE WED THU	2,254 2,381 2,784		236		<b>_</b>	· · · · · · · · · · · · · · · · · · ·		6.9	327	30 30	75
10 11 12 13 14 15 16 17 18	TOTAL MON TUE WED THU	2,254 2,381 2,784		236	<b></b>		. <b> </b>	······································	6.9	327	30 30	75
10 11 12 13 14 15 16 17 18	MON TUE WED THU	2,254 2,381 2,784		236					6.9	327	30 30	75
11 12 13 14 15 16 17 18	TUE WED THU	2,381 2,784									30	
12 13 14 15 16 17 18	WED THU	2,784							7 /	322		
13 14 15 16 17 18	THU	•										
14 15 16 17 18		MAINTENA	NCE					•	8.4	331	30	
15 16 17 18	101										30	
16 17 18											12	
17 18	SAT											
17 18	SUN		···								400.0	
18	TOTAL	7,419							23	327	132.0	56
	MON	3,053							8.5	359		
79	TUE	2,148	4440						6.5	330 276	30	
	WED		1446	236	2514	35 <sup>.</sup>			6.1 8.7	329	30 30 5	
20	THU				2511	ురి	i -		0./	329	30.5	
21.	FRI										38.5	
22	SAT										5	
_23	SUN	5,201	1,446	236	2,511	351			30	327	120.5	81
24	TOTAL MON	AJAX PLA			<u>اا چيند</u>					311	30	01
	TUE		1646		J				5.8	326		
25 26	WED		2621						9.5	317		
20	THU		2640						10			
27 28	FRI		2640						9.4			
-			1774						5.4 6.8			
	TOTAL		11,294	1,656					42			70
MON					<u> </u>							

			3/8"	3/8" PLUS	3/8" MINUS	3/8"			PLANT HOURS	TONS PER	HOURS	
OCT	2012	3/4" RAP	MINUS	RAP	SRAP	PLUS	SHINGLES	4G	<u>₹₹</u>	HOUR	WORKED	ТРМН
		AJAX PLAI							-	004		
1	MON		2079	270					8	301	30	78
2	TUE				2074	248	.111		7	329	32	76
3	WED	DAN'S US	23							-	35	
4	THU								8	0		0
5	FRI						43	218	8	33		5
6	SAT						379	1898	8	285		59
7	SUN										38.0	
	TOTAL		2,079	270	2,074	248	533	2,116	39	146		20
8	MON						409	2045	8.4	292		64
9	TUE						312	1561	6.8 7 7	275		54
10	WED	0.50					338	1692	7.7 2	264		50
11	THU	250			ſ				2	125		
12	FRI	AJAX PLA		GRION	l				26	273	30	~
13	SAT	708						·	2.6	272	22	3:
14	SUN	050				· · · · · ·	4.050	5,298	28	112	195.5	10
15	TOTAL	<u>958</u> 3,043	-	-		-	1,059	5,296	<u>20</u> 9.5	320		9
15	MON	3,043							9.5 9.4	320		9. 9
10 17	TUE WED	1,908							9.4 5.8	329		5
18.		3,129							9.7	323		9
10. 19	THU FRI	5,125			1318	158	91		9.7 4.5	348		. 49
20	SAT				2421	266			4.5 8.5	336		9
20	SUN	•			2421	200	107		0.0	330		
2,1	TOTAL	11,091	<u>.                                    </u>	-	3,739	424	258		47	333	193.0	80
22	MON	. 1,001	997	149	1821	254		······································	10.3	326		
23	TUE		•••						9.3	0		
24	WED								9.4	Ő		1
25	THU	AJAX PLA	NT #5 INK	STER	l					-	35	
26	FRI	<u></u>	1322	171	2				4.8	311		4
27	SAT		-									
28	SUN											
	TOTAL		2,319	320	1,821	254	141	·····	34	148	170.0	29
29	MON		2220	288					8.3	302		8
30	TUE		1615	209					6.7	272		6
31	WED		1608	208					6,5	279		6
											·	
	TOTAL		5,443	705		=			22	286	i 90.0	68
MON TOT/	TH E	ND. 12,049	9,841	1,295	7,634	926	1,991		169	200	906	3

ROCK RECYCLERS

				_		ROCH	(RECYCL	ERS				
οv 2	2012	3/4" RAP	3/8" MINUS	3/8" PLUS RAP	3/8" MINUS SRAP	3/8" PLUS	SHINGLES	4G	PLANT HOURB	Tons Per Hour	HOURS	ТРМН
		AJAX PLAN			0.04		ronneo LLo I				HORACED	4 6 4940 1
	Ľ											
1 7	THU	2,237	290						9	294	30	84
2	FRI										32	
3 5	SAT											
<u>4 (</u>	SUN									<u>.</u>		
	TOTAL	2,237	290		-		~	-	9	294		41
	MON		1931	251					7.5	291	30	73
	TUE		1106	143	1009	131			7.8	315	30	82
	WED	· · · · · ·			2300	351	131		7.6	366	30	93
	тни	2,647							8.2	323		88
	FRI										8	
	SAT											
	SUN											
	TOTAL	2,647	3,037	394	3,309	482	201			330	128.0	. 79
	MON		1680	252					6.2	312		64
	TUE		2372	355	•				8.6	317		91
	WED		2338	351					. 8.4	320		100
	THU		2060	309	•				7.7	308	. 20	118
	FRI											
	SAT											
	SUN	······································	8,450	1,267					31	314	107.0	91
	MON	<u> </u>	2165	324					8.1	307		
	TUE		1692	253	349	52	2 21		8	296		79
	WED		1032	200	1906	285			7.8	296		77
	THU	Holiday			1300	<u>د ب</u>	. 120		1.0	200	50	
	FRI	ricaduy										
	SAT											
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### ATTACHMENT C

#### DAILY OPERATOR RECORDS DETAILING WATER APPLICATION AND MAINTENANCE

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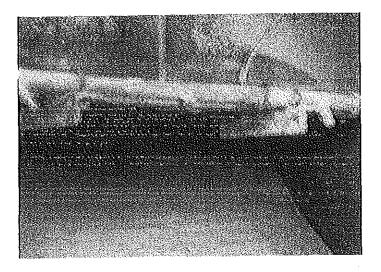
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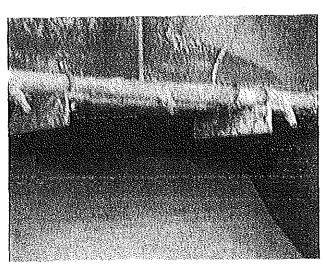
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TRAR DOM:	11%% <u>LIP</u>	TOTAL Tink	DRLAY QLASS	DELAY AREA		DALAY DEROR	PTTON		
• • • • • • • • • • • • • • • • • • •					STAP	RT UP 12:10			
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Shrwsles 91-Tows

3/8+ 15B Tons

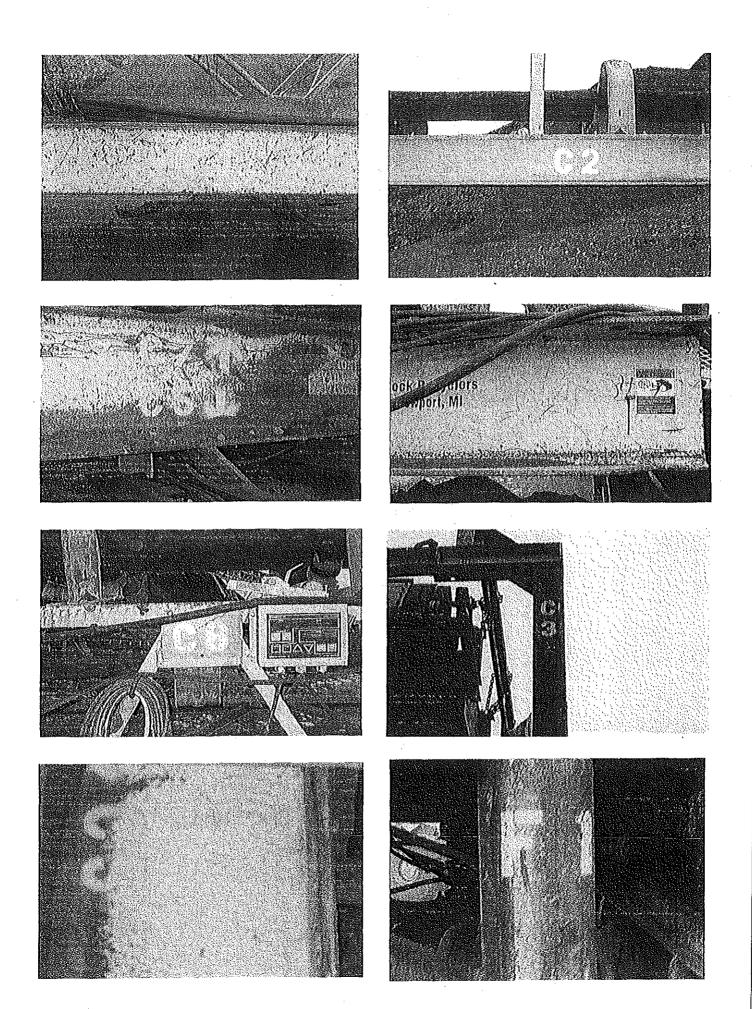


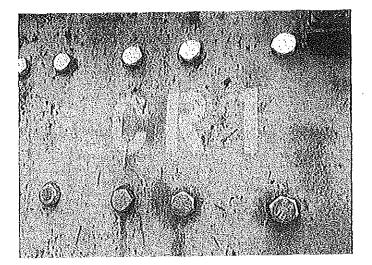


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### ATTACHMENT D

# EQUIPMENT LABEL PHOTOGRAPHS





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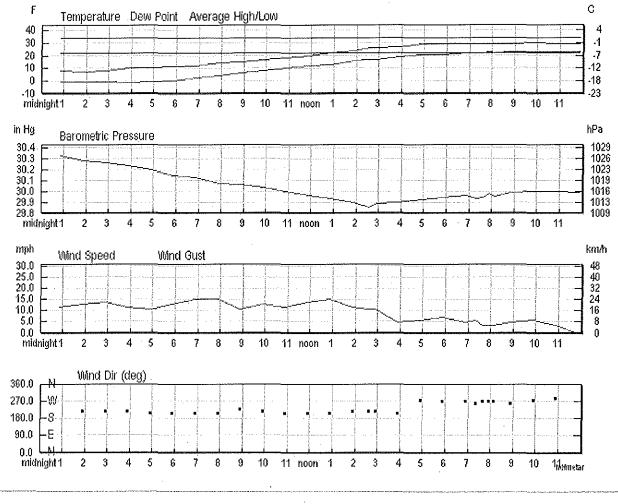
# History for Detroit, MI Monday, January 24, 2005

Monday, January 24, 2005

« Previous Day	January 24 200	5 View	Next Day »	
Daily Weekly Monthly	Custom			
	Actual	Average	Record	
Temperature				
Mean Temperature	<b>17</b> °F	-		
Max Temperature	<b>28</b> °F	33 °F	<b>57</b> °F (1950)	
Min Temperature	6 °F	21 °F	<b>-13</b> °F (1963)	
Degree Days				
Heating Degree Days	48			
Moisture				
Dew Point	12 °F			
Average Humidity	70			
Maximum Humidity	78			
Minimum Humidity	59			
Precipitation				
Precipitation	0.00 in		- ()	
Sea Level Pressure				
Sea Level Pressure	30.03 in			
Wind				
Wind Speed	10 mph (SW)			
Max Wind Speed	<b>15</b> mph			
Max Gust Speed	<b>21</b> mph			
Visibility	10 miles			
Events	Snow			
	es and records for this station ar	e not official NWS va		
T = Trace of Precipitation, MM = Miss	ing Value		Source: NWS Daily Summary	

Seasonal Weather Averages

### History | Weather Underground



Certify This Report

## **Hourly Observations**

Time (EST)	Temp.	Windchill	Dew Point	Humidity	Pressure	Visibility	Wind Dir	Wind Speed	Gust S
12:53 AM	7.0 °F	-8.3 °F	-2.0 °F	67%	30.32 in	10.0 mi	SW	11.5 mph	• • •
1:53 AM	6.1 °F	-10.2 °F	-2.0 °F	69%	30.28 in	10.0 mi	sw	12.7 mph	-
2:53 AM	7.0 °F	-9.8 °F	-2.0 °F	67%	30.26 in	<b>10.0</b> mi	SW	13.8 mph	
3:53 AM	9.0 °F	-5.9 °F	-2.9 °F	59%	30.23 in	<b>10.0</b> mi	SW	11.5 mph	-
4:53 AM	9.0 °F	-5.1 °F	-2.0 °F	61%	30.20 in	<b>10.0</b> mi	SSW	<b>10.4</b> mph	-
5:53 AM	10.0 °F	-5.2 °F	-0.9 °F	61%	30.14 in	<b>10.0</b> mi	SSW	12.7 mph	· . . –

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# History | Weather Underground

## Page 3 of 3

Time (EST)	Temp.	Windchill	Dew Point	Humidity	Pressure	Visibility	Wind Dir	Wind Speed	Gust
6:53 AM	10.9 °F	-5.4 °F	1.0 °F	64%	30.12 in	<b>10.0</b> mi	SSW	15.0 mph	-
7:53 AM	12.9 °F	-2.8 °F	3.0 °F	65%	30.07 in	10.0 mi	SSW	15.0 mph	20.7 n
8:53 AM	14.0 °F	1.2 °F	5.0 °F	67%	30.06 in	<b>10.0</b> mi	SW	10.4 mph	-
9:53 AM	<b>16.0</b> °F	2.3 °F	7.0 °F	68%	30.03 in	10.0 mi	sw	12.7 mph	-
10:53 AM	17.1 °F	4.3 °F	9.0 °F	71%	30.00 in	10.0 mi	SSW	11.5 mph	-
11:53 AM	19.0 °F	5.6 °F	10.9 °F	71%	29.96 in	7.0 mi	SSW	13.8 mph	. <b>.</b>
12:53 PM	21.0 °F	7.6 °F	12.0 °F	68%	29.93 in	<b>10.0</b> mi	SSW	15.0 mph	
1:53 PM	23.0 °F	11.7 °F	15.1 °F	72%	29.90 in	10.0 mi	sw	11.5 mph	-
2:35 PM	24.8 °F	14.6 °F	15.8 °F	69%	29.85 in	10.0 mi	sw	10.4 mph	. <u>-</u>
2:53 PM	25.0 °F	14.8 °F	16.0 °F	69%	29.89 in	<b>10.0</b> mi	sw	10.4 mph	- -
3:53 PM	26.1 °F	20.5 °F	18.0 °F	71%	29.90 in	10.0 mi	SSW	4.6 mph	-
4:53 PM	28.0 °F	<b>21.7</b> °F	19.9 °F	72%	29.92 in	<b>10.0</b> mì	West	5.8 mph	-
5:53 PM	28.0 °F	20.8 °F	19.9 °F	72%	29.94 in	10.0 mi	West	6.9 mph	-
6:53 PM	28.0 °F	22.8 °F	21.0 °F	75%	29.96 in	10.0 mi	West	4.6 mph	-
7:19 PM	28.4 °F	<b>22.2</b> °F	<b>21.2</b> °F	74%	29.93 in	10.0 mi	West	5.8 mph	
7:37 PM	<b>28.4</b> °F	24.6 °F	21.2 °F	74%	29.94 in	10.0 mi	West	3.5 mph	-
7:53 PM	28.0 °F	24.2 °F	21.9 °F	78%	29.98 in	<b>10.0</b> mi	West	3.5 mph	-
8:07 PM	28.4 °F	<b>24.6</b> °F	<b>21.2</b> °F	74%	29.95 in	<b>10.0</b> mi	West	<b>3.5</b> mph	······································
8:53 PM	28.0 °F	22.8 °F	21.9 °F	78%	29.99 in	10.0 mi	West	4.6 mph	-
9:53 PM	28.9 °F	<b>22.8</b> °F	21.9 °F	75%	30.00 in	10.0 mi	West	5.8 mph	-
10:53 PM	28.0 °F	24.2 °F	<b>21.</b> 9 °F	78%	30.00 in	<b>10.0</b> mì	WNW	<b>3.5</b> mph	: <b>-</b>
11:53 PM	28.0 °F	-	21.9 °F	78%	29.99 in	10.0 mi	Calm	Calm	-

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