File

# Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

In the Matter of an
Application for Permit

Mr. Richard A. Bazinet, Director of Florida Operations
Angelo's Recycled Materials, Inc.
Post Office Box 1493
Largo, Florida 33779

DEP File No. 7775092-002-AO

**NOTICE OF FINAL PERMIT**

Enclosed is Final Permit Number 7775092-002-AO for a diesel engine powered portable concrete and asphalt material crusher authorizing operation of this facility in various specified counties throughout Florida. This permit is issued pursuant to Chapter 403, Florida Statutes (F.S.).

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Legal Office; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 (thirty) days from the date this Notice is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

for C.H. Fancy, P.E., Chief
Bureau of Air Regulation

## CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF FINAL PERMIT (including the FINAL permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 7/14/00 to the person(s) listed:

Mr. Richard A. Bazinet, Director of Florida Operations, Angelo's Recycled Materials, Inc.*
Mr. Bernard A. Ball, Central Florida Testing Laboratories, Inc.
Bill Thomas, DEP, Southwest District
Jerry Campbell, Hillsborough County Environmental Protection Commission
Peter Hessling, Pinellas County Department of Environmental Management

Department Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED**, on this date, pursuant to §120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Barbara J. Boutwell (Clerk) 7/14/00 (Date)

# Department of Environmental Protection

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**PERMITTEE**

Angelo's Recycled Materials, Inc.
Post Office Box 1493
Largo, Florida 33779

**FID No.:** 7775092
**Permit No.:** 7775092-002-A0
**SIC No.:** 1795
**Expires: October 26, 2004**

**AUTHORIZED REPRESENTATIVE**

Mr. Richard Bazinet, Director of Florida Operations

**PROJECT**

This permit allows the applicant to operate a diesel engine powered portable concrete and asphalt material crushing plant, which will be designated as Aggregate Processing Plant No. 4.

**STATEMENT OF BASIS**

This air operation permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and the Florida Administrative Code (F.A.C.) Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297. The above named permittee is authorized to operate the facility in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

**APPENDICES**

The attached appendices are a part of this permit:

Appendix GC – General Permit Conditions
Appendix PC – Permitted Counties

Howard L. Rhodes, Director
Division of Air Resources
Management

## SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

### FACILITY DESCRIPTION

This facility consists of a 200 ton per hour (TPH) Cedarapids, Inc. Model 3054 portable jaw crusher, and a Cedarapids, Inc. Model RC5411 cone crusher. The facility also includes equipment associated with the crushers (feeders, screens, and conveyors) and a 910 KW Caterpillar Model 3512 generator driven by a 325 hp Caterpillar diesel motor. Fugitive particulate matter emissions throughout the crushing unit are controlled by a water suppression system.

### REGULATORY CLASSIFICATION

The crusher conveyors and screens associated with this facility are subject to regulation under 40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants. The generator portion of the facility is regulated under Rule 62-210.300, F.A.C., Permits Required: however, there are no unit specific regulatory requirements that apply.

### RELEVANT DOCUMENTS

The documents listed below are the basis of the permit. They are specifically related to this permitting action. These documents are on file with the Department.

- Application for construction permit received (Bureau of Air Regulation) September 2, 1999
- Draft Permit issued October 18, 1999
- Public Notice of Intent published October 26, 1999, in The Times, an edition of the St. Petersburg Times and in the Tampa Tribune
- Application for operating permit received (Bureau of Air Regulation) May 1, 2000 with initial compliance testing data attached

### PERMITTED COUNTIES

*(Please see Appendix PC – Permitted Counties for a list of counties in which the facility is currently permitted to operate)*

### OPERATING LOCATION

The facility will begin initial operation at 1201 East 148$^{th}$ Avenue, Tampa, Hillsborough County. The UTM coordinates of this location are Zone 17; 357.8 km E; 3107.2 km N.

The following specific conditions apply to all emissions units at this facility.

## ADMINISTRATIVE

1. Regulating Agencies: All documents relating to the initial application for a permit to operate and all initial compliance tests shall be submitted to the Department's Bureau of Air Regulation in Tallahassee. Subsequent applications for permit renewals, reports, tests, minor modifications, and notifications shall be submitted to the district office or local program that has permitting/compliance jurisdiction over the current or proposed operating location.

2. General Conditions: In addition to the specific conditions of this permit, the owner and operator are subject to and shall operate under the General Permit Conditions G.1 through G.15, contained in the attached Appendix GC – General Permit Conditions of this permit. General Permit Conditions are binding and enforceable pursuant to Chapter 403 of the Florida Statutes.
**[Rule 62-4.160, F.A.C.]**

3. Terminology: The terms used in this permit have specific meanings as defined in the corresponding chapters of the Florida Administrative Code.

4. Forms and Application Procedures: The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C., and follow the application procedures in Chapter 62-4, F.A.C.
**[Rule 62-210.900, F.A.C.]**

**5.** Expiration: This air operation permit shall expire on **October 26, 2004.**
**[Rule 62-4.070(4), F.A.C.]**

6. Relocation Notification: At least 7 days prior to relocating the plant to an approved county where public notice was published within the last 5 years, the permittee shall notify the air program administrator for the Department's district office and/or, if applicable, appropriate local program. The notification shall be submitted using DEP Form 62-210.900(3), F.A.C., along with the appropriate processing fee. All potential operation sites shall be shown on a USGS topographic map. A county license, a discretionary public notice, or additional restrictions for the operation at a specific site may be imposed by the district office or local program. If the public notice for a proposed county is more than 5 years old, or if the proposed county was never covered by a public notice, this form shall be submitted at least 30 days in advance of the move and a public notice shall be published prior to operating in the proposed county. Each time that the permittee submits a Notice to Relocate, the operation permit shall be revised to reflect the new location.

**[Rule 62-210.370(1), F.A.C.]**

7 Renewal Required: An application to renew the operating permit must be submitted to the Department's Bureau of Air Regulation in Tallahassee at least 60 days prior to the expiration date of this permit. To renew an operation permit, the applicant shall submit the appropriate application form, fee, a report on any physical change or major maintenance to the facility, and compliance test reports as required by this permit.
**[Rule 62-4.090, F.A.C.]**

8. Applicable Regulations: Unless otherwise indicated in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of Chapter 403, F.S. and Florida Administrative Code Chapters 62-4, 62-204, 62-210, 62-296, 62-297 and the Code of Federal Regulations Title 40, Part 60, adopted by reference in the Florida Administrative Code (F.A.C.)

regulations. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting or regulations.
**[Rules 62-204.800 and 62-210.300, F.A.C.]**

## EMISSION LIMITING STANDARDS

9. General Visible Emissions Standard: Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions elsewhere in this permit, no person shall cause, let, permit, suffer, or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20% opacity). If a special compliance test is required (see specific condition 21), the test method for visible emissions shall be EPA Method 9, incorporated and adopted by reference in Chapter 62-297, F.A.C.
**[Rule 62-296.320(4)(b)1, F.A.C.]**

10 Unconfined Emissions of Particulate Matter:

(a) No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions.

(b) Any permit issued to a facility with emissions of unconfined particulate matter shall specify the reasonable precautions to be taken by that facility to control the emissions of unconfined particulate matter.

(c) Reasonable precautions committed to by the permittee:

- Emissions that might be generated from various emission points throughout the crushing unit shall be controlled by a water suppression system with spray bars located at the various emissions points located throughout the plant.
- All stockpiles and roadways where this crushing unit is located shall be watered on a regular basis by water trucks equipped with spray bars, to control any fugitive emissions that may be generated by vehicular traffic or prevailing winds.

(d) In determining what constitutes reasonable precautions for a particular source, the Department shall consider the cost of the control technique or work practice, the environmental impacts of the technique or practice, and the degree of reduction of emissions expected from a particular technique or practice.

**[Rule 62-296.320(4)(c), F.A.C.; and, Permit Application received 9/2/99.]**

11. General Pollutant Emission Limiting Standards:

(a) No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.

(b) No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor.

[Note: An objectionable odor is defined in Rule 62-210.200(198), F.A.C., as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance.]

**[Rules: 62-296.320(1)(a) & (2), F.A.C.]**

## OPERATIONAL REQUIREMENTS

12. Modifications: No emissions unit or facility subject to this rule shall be constructed or modified without obtaining an air construction permit from the Department. Such permit must be obtained prior to the beginning of construction or modification.
**[Rule; 62-210.300(1), F.A.C.]**

13. Plant Operation - Problems: If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire, wind or by other cause, the permittee shall immediately notify the Department's district office and, if applicable, appropriate local program. The notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with Department rules.
**[Rule 62-4.130, F.A.C.]**

14. Circumvention: No person shall circumvent any air pollution control device or allow the emission of air pollutants without the applicable air pollution control device operating properly.
**[Rule 62-210.650, F.A.C.]**

## REPORTING AND RECORD KEEPING REQUIREMENTS

15. Annual Operating Report for Air Pollutant Emitting Facility: The Annual Operating Report for Air Pollutant Emitting Facility (DEP Form 62-210.900(5)) shall be completed each year for facilities with the potential to emit ten (10) tons per year or more of volatile organic compounds or twenty-five (25) tons per year or more of nitrogen oxides and located in an ozone nonattainment area or ozone air quality maintenance area. Therefore, the form Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be completed for each year that the facility exceeds 2,700 hours of operation in any one of the following counties: Broward, Dade, Duval, Hillsborough, Orange, Palm Beach, or Pinellas. The form shall be submitted to the Department's district office or local program which has permitting/compliance jurisdiction over the facility, by March 1 of the following year.
**[Rule 62-210.370(3)(a), F.A.C.]**

15. The following specific conditions apply to the following emissions units

| EMISSIONS UNIT NO. | EMISSIONS UNIT DESCRIPTION |
|---|---|
| 001 | This unit consists of a 200 ton per hour (TPH) Cedarapids, Inc. Model 3054 portable jaw crusher, Cedarapids, Inc. Model RC5411 cone crusher and associated equipment (feeder, screens, and conveyors) |
| 002 | This unit consists of a 910 KW Caterpillar Model 3512 generator, driven by a 325 hp Caterpillar diesel motor. |

[**NOTE:** Emissions unit 001 is subject to 40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants (40 CFR 60.670 - 60.676) and 40 CFR 60, Subpart A, revised as of July 1, 1997.]

## ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

1. Hours of Operation: These emissions units are allowed to operate up to 3,120 hours during any calendar year.
**[Rule 62-210.200, F.A.C., Definitions - potential to emit (PTE); and, applicant request]**

2. Permitted Capacity: The crusher may process up to 200 TPH and 624,000 TPY of material (total).
**[Rule 62-210.200, F.A.C., Definitions - PTE; and, applicant request]**

3. Fuel: The diesel engines may burn up to 30 GPH and 93,600 GPY of diesel fuel containing a maximum of 0.50 percent sulfur by weight
**[Rule 62-210.200, F.A.C., Definitions – PTE; and, applicant request]**

## EMISSION LIMITATIONS AND PERFORMANCE STANDARDS

4. Visible Emissions: The emission points described in unit 001 are subject to the visible emission limits of 40 CFR 60, Subpart OOO, as outlined below in Table 1.

***Table 1: Process Emission Points Visible Emission Limits***

| Emission Points | VE Limit (% Opacity) |
|---|---|
| Receiving Hopper/Grizzly Feeder | 10 |
| Crusher | 15* |
| Portable Belt Conveyor(s) | 10** |
| Screen(s) | 10 |
| Truck Loading/Unloading | <20 |

- * This limit applies since no capture system is used.
- ** This limit applies to transfer points onto conveyor belts only.

Note: When operating in Hillsborough County, the permittee shall not cause, permit, or allow any visible emissions (five percent opacity). This includes, but is not limited to, the receiving hopper, crushers, belt conveyors, screens, and truck loading/unloading.
**[40 CFR 60.672; and, Rule 1-3.61, Rules of the Environmental Protection Commission of Hillsborough County]**

5. No Visible Emissions - Saturated Materials: No owner or operator shall cause to be discharged into the atmosphere any visible emissions from:

(a) Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin.

(b) Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

**[40 CFR 60.672(h)(1) & (2)]**

6. Excess Emissions: The following excess emissions provisions can not be used to vary any NSPS requirements (from any subpart of 40 CFR 60).

(a) Excess emissions resulting from start-up, shutdown or malfunction of any emissions units shall be permitted providing (1) best operational practices to minimize emissions are adhered to and

(2) the duration of excess emissions shall be minimized, but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration.

**[Rule 62-210.700(1), F.A.C.]**

(b) Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during start-up, shutdown, or malfunction shall be prohibited.

**[Rule 62-210.700(4), F.A.C.]**

## COMPLIANCE MONITORING AND TESTING REQUIREMENTS

6. Test Frequency:

(a) Prior to obtaining an operation permit for this facility, the owner or operator shall conduct a visible emissions compliance test to demonstrate compliance with the standards of this permit, in accordance with the conditions listed below.

**[Rule 62-297.310(7)(a)1., F.A.C.]**

(b) The owner or operator of the facility shall conduct visible emissions tests annually, in accordance with the conditions listed below.

**[Rule 62-297.310(7)(a)4.a., F.A.C.]**

7. Operating Rate During Testing: Unless otherwise stated in the applicable emission limiting standard rule, testing of emissions shall be conducted with the emissions unit operating at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity (i.e., at less than 90 percent of the maximum operation rate allowed by the permit); in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted provided however, operations do not exceed 100 percent of the maximum operation rate allowed by the permit. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.

**[Rule 62-297.310(2), F.A.C.]**

8. Test Procedures shall meet all applicable requirements of Rule 62-297.310(4), F.A.C.

**[Rule 62-297.310(4), F.A.C.]**

9. Determination of Process Variables:

(a) Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

(b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

**[Rule 62-297.310(5), F.A.C.]**

10. Test Notification: The owner or operator shall notify the Department's district office and, if applicable, appropriate local program, at least 15 days prior to the date on which each formal

compliance test is to begin. Notification shall include the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

**[Rule 62-297.310(7)(a)9., F.A.C. ; and, 40 CFR 60.8]**

[Note: The federal requirements of 40 CFR 60.8 require 30 days notice of the initial test and any tests required under section 114 of the Clean Air Act, but the Department rules require 15 days notice for the annual compliance tests. Unless otherwise advised by the Department, provide 15 days notice prior to conducting annual tests, except for the initial test when 30 days notice is required.]

11. Visible Emissions Test Method: In determining compliance with the standards in 40 CFR 60.672 (b) and (c) (see specific condition 3), the owner or operator shall use Method 9 and the procedures in 40 CFR 60.11, with the following additions:

    (a) The minimum distance between the observer and the emissions source shall be 4.57 meters (15 feet).
    (b) The observer shall, when possible, select a position that minimizes interference from other fugitive emissions units (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
    (c) For affected emissions units using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

    **[40 CFR 60.675(c)(1)(i), (ii) & (iii)]**

12. Visible Emissions Test Duration - Initial

    (a) When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) (see specific condition 3), the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

    (i) There are no individual readings greater than 10 percent opacity; and
    (ii) There are no more than 3 readings of 10 percent for the 1-hour period.

    **[40 CFR 60.675(c)(3)(i) & (ii)]**

    (b) When determining compliance with the fugitive emissions standard for any crusher at which a capture system is not used as described under 40 CFR 60.672(c), the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

    (i) There are no individual readings greater than 15 percent opacity; and
    (ii) There are no more than 3 readings of 15 percent for the 1-hour period.

    **[40 CFR 60.675(c)(4)(i) & (ii)]**

13. Visible Emissions Test Duration – Annual

    When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity

test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.
**[Rule 62-297.310(4)(a)2 F.A.C.]**

14. Visible Emissions Test - Emissions Interference: For the method and procedure of 40 CFR 60.675(c) [specific condition 12 of Section III of this permit, above], if emissions from two or more emissions units continuously interfere so that the opacity of fugitive emissions from an individual affected emissions unit cannot be read, either of the following procedures may be used:

    (a) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected emissions units contributing to the emissions stream
    (b) Separate the emissions so that the opacity of emissions from each affected emissions unit can be read.

    **[40 CFR 60.675(e)(1)(i) & (ii)]**

15. No Tests Required - Saturated Materials: Method 9 performance tests under 40 CFR 60.11 and 40 CFR 60.675 are not required for:

    (a) Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill or storage bin.
    (b) Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, that process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

    **[40 CFR 60.675(h)(1)&(2)]**

16. Special Compliance Tests: When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the facility to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions units and to provide a report on the results of said tests to the Department.
    **[Rule 62-297.310(7)(b), F.A.C.]**

## REPORTING AND RECORD KEEPING REQUIREMENTS

17. Log: The permittee shall maintain a log showing the annual hours of operation per year and fuel consumption. Operators shall keep a log to include, at a minimum, the following information:

    (a) The daily location and production rate.
    (b) The daily hours of operation of the crusher system.
    (c) Maintenance and repair logs for any work performed on the permitted emissions units.
    (d) Daily logs regarding the use of wetting agents to control fugitive dust.

    This data shall be made available to the Department or county upon request.
    **[Rule 62-4.070(3), F.A.C. ]**

18. Operation and Maintenance (O&M): The permittee shall keep an O&M plan for the air pollution control equipment with the facility. The O&M log shall include the list of the parameters being monitored, the frequency of the check/maintenance, observations, and comments.
    **[Rule 62-4.070(3), F.A.C.]**

19. Test Reports: The owner or operator shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR 60.672, including

reports of opacity observations made using Method 9 to demonstrate compliance with 40 CFR 60.672(b) and 40 CFR 60.672(c).

(b) The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.

(c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA Method 9 test, shall provide the following information:

1. The type, location, and designation of the emissions unit tested.
2. The facility at which the emissions unit is located.
3. The owner or operator of the emissions unit.
4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
5. The method, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
6. The type of air pollution control devices installed on the emissions unit, its general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.

**[40 CFR 60.676(f): and, Rules 62-297.310(8)(b) & (c)1. - 6., F.A.C.]**

20. Change From Saturated to Unsaturated Material: The owner or operator of any screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to 40 CFR 60.672(h) and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit in 40 CFR 60.672(b) and the emission test requirements of 40 CFR 60.11 and subpart OOO. Likewise a screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit in 40 CFR 60.672(h).
**[40 CFR 60.676(g)]**

21. Records Retention: This facility shall maintain a central file containing all measurements, records, and other data that are required to be collected pursuant to the various specific conditions of this permit.
**[Rules 62-4.160(14)(a) & (b), F.A.C.]**

22. Duration of Record Keeping: Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These records shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
**[Rules 62-4.160(14)(a) & (b), F.A.C.]**

23. Excess Emissions Report: If excess emissions occur, the owner or operator shall notify the Department within one working day of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. In addition, the Department may request a written summary report of the incident. Pursuant to the Standards of Performance for New Stationary Sources, excess emissions shall also be reported in accordance with 40 CFR 60.7, Subpart A. **[Rule 62-4.130, F.A.C.]**

24. Excess Emissions Report - Malfunctions: In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department or the appropriate local program in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report if requested by the Department.
**[Rule 62-210.700(6), F.A.C.]**

## NSPS GENERAL PROVISIONS

[Note: The numbering of the original rules in the following conditions has been preserved for ease of reference. In cases where the state or local program requirements are more restrictive than the NSPS general requirements, the state or local program requirements shall prevail.]

25. Notification and Record Keeping:

(a) Any owner or operator subject to the provisions of 40 CFR 60 shall furnish the Administrator written notification as follows:

(4) A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.

(b) The owner or operator subject to the provisions of 40 CFR 60 shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

(f) The owner or operator subject to the provisions of 40 CFR 60 shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least three years following the date of such measurements, maintenance, reports, and records.

**[40 CFR 60.7]**

26. Performance Tests:

(a) Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Administrator under section 114 of the Act, the owner or

operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s).

(b) Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act.

(c) Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

(d) The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present.

**[40 CFR 60.8]**

27. Compliance with Standards and Maintenance Requirements:

(a) Compliance with standards in 40 CFR 60, other than opacity standards, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in the applicable standard.

(b) Compliance with opacity standards in 40 CFR 60.11 shall be determined by conducting observations in accordance with Reference Method 9 in appendix A of 40 CFR 60.11, any alternative method that is approved by the Administrator, or as provided in 40 CFR 60.11(e)(5). [Under certain conditions (40 CFR 60.675(c)(3)&(4)), Method 9 observation time may be reduced from 3 hours to 1 hour. Some affected facilities are exempted from Method 9 tests (40 CFR 60.675 (h)). See specific condition 12, Section III, above for test duration requirements.]

(c) The opacity standards set forth in 40 CFR 60.11 shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard.

(d) At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(g) For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any standard in this part, nothing in this part shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a

source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.

**[40 CFR 60.11]**

28. Circumvention:

No owner or operator subject to the provisions of 40 CFR 60.12 shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

**[40 CFR 60.12]**

29. General Notification and Reporting Requirements:

(a) For the purposes of this part, time periods specified in days shall be measured in calendar days, even if the word "calendar" is absent, unless otherwise specified in an applicable requirement.

(b) For the purposes of this part, if an explicit postmark deadline is not specified in an applicable requirement for the submittal of a notification, application, report, or other written communication to the Administrator, the owner or operator shall postmark the submittal on or before the number of days specified in the applicable requirement. For example, if a notification must be submitted 15 days before a particular event is scheduled to take place, the notification shall be postmarked on or before 15 days preceding the event; likewise, if a notification must be submitted 15 days after a particular event takes place, the notification shall be delivered or postmarked on or before 15 days following the end of the event. The use of reliable non-Government mail carriers that provide indications of verifiable delivery of information required to be submitted to the Administrator, similar to the postmark provided by the U.S. Postal Service, or alternative means of delivery agreed to by the permitting authority, is acceptable.

(c) Notwithstanding time periods or postmark deadlines specified in this part for the submittal of information to the Administrator by an owner or operator, or the review of such information by the Administrator, such time periods or deadlines may be changed by mutual agreement between the owner or operator and the Administrator. Procedures governing the implementation of this provision are specified in paragraph (f) of this section.

(d) If an owner or operator of an affected facility in a State with delegated authority is required to submit periodic reports under this part to the State, and if the State has an established timeline for the submission of periodic reports that is consistent with the reporting frequency(ies) specified for such facility under this part, the owner or operator may change the dates by which periodic reports under this part shall be submitted (without changing the frequency of reporting) to be consistent with the State's schedule by mutual agreement between the owner or operator and the State. The allowance in the previous sentence applies in each State beginning 1 year after the affected facility is required to be in compliance with the applicable subpart in this part. Procedures governing the implementation of this provision are specified in paragraph (f) of this section.

(f)(1)(i) Until an adjustment of a time period or postmark deadline has been approved by the Administrator under paragraphs (f)(2) and (f)(3) of this section, the owner or operator of an affected facility remains strictly subject to the requirements of this part.

(ii) An owner or operator shall request the adjustment provided for in paragraphs (f)(2) and (f)(3) of this section each time he or she wishes to change an applicable time period or postmark deadline specified in this part.

(2) Notwithstanding time periods or postmark deadlines specified in this part for the submittal of information to the Administrator by an owner or operator, or the review of such information by the Administrator, such time periods or deadlines may be changed by mutual agreement between the owner or operator and the Administrator. An owner or operator who wishes to request a change in a time period or postmark deadline for a particular requirement shall request the adjustment in writing as soon as practicable before the subject activity is required to take place. The owner or operator shall include in the request whatever information he or she considers useful to convince the Administrator that an adjustment is warranted.

(3) If, in the Administrator's judgment, an owner or operator's request for an adjustment to a particular time period or postmark deadline is warranted, the Administrator will approve the adjustment. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an adjustment within 15 calendar days of receiving sufficient information to evaluate the request.

(4) If the Administrator is unable to meet a specified deadline, he or she will notify the owner or operator of any significant delay and inform the owner or operator of the amended schedule.

**[40 CFR 60.19]**

30. Prohibited Operations: Asbestos Containing Materials

This facility shall **not** process Asbestos Containing Materials (ACM), whether regulated asbestos containing material (RACM), category I or category II, and whether friable or nonfriable when received at the facility.

(1) "Asbestos" means the asbestiform varieties of serpentinite (chrysotile), riebeckite (crocidolite), cummingtonite-grunerite, anthophyllite, and actinolite-tremolite and includes trade acronyms products such as amosite.

(2) "Asbestos-containing materials", ACM, means any materials which contain more than one percent asbestos as determined by Polarized Light Microscopy. Based on a representative composite sample.

(3) "Asbestos removal project" means renovation or demolition operation in a facility that involves the removal of a threshold amount of regulated asbestos-containing material.

(4) "Category I Nonfriable Asbestos-Containing Material (ACM)" means asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 percent asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy.

(5) "Category II Nonfriable ACM" means any material, excluding Category I Nonfriable ACM, containing more than 1 percent asbestos as determined using the methods specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy, that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

**[40 CFR 61, Subpart M; Chapter 62-257, F.A.C.; and, Rules 62-730.300 and 62-701.520, F.A.C.]**

## SECTION IV. APPENDIX GC – GENERAL PERMIT CONDITIONS

The following are general conditions common to all DEP permits pursuant to Rule 62-4.160, F.A.C.

G.1 The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

G.2 This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings or exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

G.3 As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

G.4 This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

G.5 This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

G.6 The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

G.7 The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

(a) Have access to and copy and records that must be kept under the conditions of the permit;
(b) Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
(c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

G.8 If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

(a) A description of and cause of non-compliance; and
(b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

G.9 In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extend it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

G.10 The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

G.11 This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

G.12 This permit or a copy thereof shall be kept at the work site of the permitted activity.

G.13 This permit also constitutes:

(a) Determination of Best Available Control Technology *( )*
(b) Determination of Prevention of Significant Deterioration *( )*; and
(c) Compliance with New Source Performance Standards *(X)*.

G.14 The permittee shall comply with the following:

(a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

(b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this

permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements;
2. The person responsible for performing the sampling or measurements;
3. The dates analyses were performed;
4. The person responsible for performing the analyses;
5. The analytical techniques or methods used; and
6. The results of such analyses.

G.15 When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

## SECTION V. APPENDIX PC - PERMITTED COUNTIES

The applicant has published the proper public notices and is authorized to operate in the following counties:

| Permitted Counties: | Public Notice Valid Until: | Permitted Counties: | Public Notice Valid Until: | Permitted Counties: | Public Notice Valid Until: |
|---|---|---|---|---|---|
| Alachua | | Hamilton | | Okeechobee | |
| Baker | | Hardee | | Orange | |
| Bay | | Hendry | | Osceola | |
| Bradford | | **Hernando** | **Oct. 26, 2004** | Palm Beach | |
| Brevard | | Highlands | | **Pasco** | **Oct. 26, 2004** |
| Broward | | **Hillsborough** | **Oct. 26, 2004** | **Pinellas** | **Oct. 26, 2004** |
| Calhoun | | Holmes | | Polk | |
| Charlotte | | Indian River | | Putnam | |
| **Citrus** | **Oct. 26, 2004** | Jackson | | St. Johns | |
| Clay | | Jefferson | | St. Lucie | |
| Collier | | Lafayette | | Santa Rosa | |
| Columbia | | Lake | | Sarasota | |
| Dade | | Lee | | Seminole | |
| DeSoto | | Leon | | Sumter | |
| Dixie | | Levy | | Suwannee | |
| Duval | | Libery | | Taylor | |
| Escambia | | Madison | | Union | |
| Flagler | | Manatee | | Volusia | |
| Franklin | | Marion | | Wakulla | |
| Gasden | | Martin | | Walton | |
| Gilchrist | | Monroe | | Washington | |
| Glades | | Nassau | | | |
| Gulf | | Okaloosa | | | |

**Memorandum**

Florida Department of
Environmental Protection

BAR

| | |
|---|---|
| TO: | Howard L. Rhodes |
| THRU: | Clair Fancy<br>Bruce Mitchell |
| FROM: | William Leffler PE (921-9522) |
| DATE: | July 7, 2000 |
| SUBJECT: | Angelo's Recycled Materials, Inc., Plant No. 4<br>Air Operation Permit for a Relocatable Concrete and Asphalt Crusher<br>Final Permit No. 7775092-002-AO |
| DAY 90 | ~~August 29, 2000~~ May 1 +90 = July 24 2000 mAc |

Attached is the Final air operation permit for a portable concrete and asphalt material crusher with a diesel powered generator to be used at industrial and construction sites in Florida.

The application for this minor source is being processed by BAR because it is a relocatable unit that may operate in different Districts. The unit is subject to new source performance standards 40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants. The crusher will use water as needed to control fugitive emissions.

I recommend your approval and signature of the Final Permit.

Enclosures

WAL

**Memorandum**

Florida Department of
Environmental Protection

TO: Howard L. Rhodes

THRU: Clair Fancy
Bruce Mitchell

FROM: Ross Pollock

DATE: November 12, 1999

SUBJECT: Angelo's Recycled Materials, Inc., Plant No. 4
Air Operation Permit for a Relocatable Concrete and Asphalt Crusher
Final Permit No. 7775092-002-AO
DAY 90 August 29, 2000

Attached is the Final air operation permit for a portable concrete and asphalt material crusher with a diesel powered generator to be used at industrial and construction sites in Florida.

The application for this minor source is being processed by BAR because it is a relocatable unit that may operate in different Districts. The unit is subject to new source performance standards 40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants. The crusher will use water as needed to control fugitive emissions.

I recommend your approval and signature of the Final Permit.

Enclosures

WAL

**SENDER: *COMPLETE THIS SECTION***

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Richard Bazinet
Angelo's Recycled Materials, Inc.
P.O. Box 1493
Largo, Florida 33779

***COMPLETE THIS SECTION ON DELIVERY***

A. Received by *(Please Print Clearly)* | B. Date of Delivery 7/25/00

C. Signature
X
☐ Agent
☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Copy from service label)*
P 265 657 300

PS Form 3811, July 1999 Domestic Return Receipt 102595-99-M-1789

RECEIVED
MAY 01 2000
BUREAU OF AIR REGULATION

# *ANGELO'S RECYCLED MATERIALS, INC.*

## Reclaimed Aggregate Crushing Plant No. 4 - Tampa

***FDEP Operation Permit Application***
***FDEP ConstructionPermit No. 7775092-001-AC***

**April - 2000**

# Department of Environmental Protection

## Division of Air Resources Management

## APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE

See Instructions for Form No. 62-210.900(3)

### I. APPLICATION INFORMATION

**Identification of Facility**

| | |
|---|---|
| 1. Facility Owner/Company Name: **ANGELO'S RECYCLED MATERIALS, INC.** | |
| 2. Site Name: **ANGELO'S RECYCLED MATERIALS, INC. - RECLAIMED CRUSHING UNIT NO. 4** | |
| 3. Facility Identification Number: [ ] Unknown | |
| 4. Facility Location: Street Address or Other Locator: **1201 E. –148th Avenue (3/4 mile south of Bearss Avenue)** City: **Tampa** County: **Hillsborough** Zip Code: **33613** | |
| 5. Relocatable Facility? [X] Yes [ ] No | 6. Existing Permitted Facility? [ ] Yes [X] No |

**Application Contact**

| |
|---|
| 1. Name and Title of Application Contact: **Mr. Bernard A. Ball, Jr., Environmental Engineer** |
| 2. Application Contact Mailing Address: Organization/Firm: **Central Florida Testing Laboratories, Inc.** Street Address: **12625 – 40th Street North** City: **Clearwater** State: **Florida** Zip Code: **33762** |
| 3. Application Contact Telephone Numbers: Telephone: **(727) 572-9797** Fax: **(727) 299-0023** |

**Application Processing Information (DEP Use)**

| | |
|---|---|
| 1. Date of Receipt of Application: | |
| 2. Permit Number: | |

**Purpose of Application**

**Air Operation Permit Application**

This Application for Air Permit is submitted to obtain: (Check one)

[ ] Initial non-Title V air operation permit for one or more existing, but previously unpermitted, emissions units.

[X ] Initial non-Title V air operation permit for one or more newly constructed or modified emissions units.

Current construction permit number: **7775092-001-AC**

[ ] Non-Title V air operation permit revision to address one or more newly constructed or modified emissions units.

Current construction permit number: _____

Operation permit number to be revised: _____

[ ] Initial non-Title V air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s):

_____

[ ] Non-Title V air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit number to be revised: _____

Reason for revision: _____

**Air Construction Permit Application**

This Application for Air Permit is submitted to obtain: (Check one)

[ ] Air construction permit to construct or modify one or more emissions units.

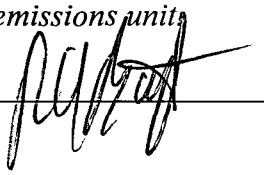
[ ] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

[ ] Air construction permit for one or more existing, but unpermitted, emissions units.

**Owner/Authorized Representative**

1. Name and Title of Owner/Authorized Representative:
   **Mr. Richard A. Bazinet, Director of Florida Operations**
2. Owner/Authorized Representative Mailing Address:
   Organization/Firm: **Angelo's Recycled Materials, Inc.**
   Street Address: **Post Office Box 1493**
   City: **Largo** State: **Florida** Zip Code: **33779**
3. Owner/Authorized Representative Telephone Numbers:
   Telephone: **(727) 581-1544** Fax: **(727) 586-5676**
4. Owner/Authorized Representative Statement:

   *I, the undersigned, am the owner or authorized representative* of the facility addressed in this application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.*

   Signature  Date 4-25-00

* Attach letter of authorization if not currently on file.

**Professional Engineer Certification**

1. Professional Engineer Name: **Mr. George C. Sinn, Jr., P.E.**
   Registration Number: **16911**
2. Professional Engineer Mailing Address:
   Organization/Firm: **Central Florida Testing Laboratories, Inc.**
   Street Address: **12625 – 40th Street North**
   City: **Clearwater** State: **Florida** Zip Code: **33762**
3. Professional Engineer Telephone Numbers:
   Telephone: **(727) 572-9797** Fax: **(727) 299-0023**

4. Professional Engineer Statement:

*I, the undersigned, hereby certify, except as particularly noted herein*, that:*

*(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and*

*(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.*

*If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [ ], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.*

*If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [X ], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.*

Signature

4-21-00
Date

(seal)

- Attach any exception to certification statement.
- *With the exception of manufacturers efficiency and production guarantees.*

Scope of Application

| Emissions Unit ID | Description of Emissions Unit | Permit Type | Processing Fee |
|---|---|---|---|
| 001 | Cedarapids Inc. – Raw Material Receiving Hopper / Vibrating Grizzly Feeder System – used to feed uncrushed material to crusher. | AO2B | $1000.00 |
| 002 | Cedarapids, Inc. Model #3054 Jaw Crusher and Discharge Pan – where crushed material exits crushing unit and falls onto conveyor belt | AO2B | |
| 003 | Cedarapids Cone Crusher Model RC5411 – used to crush oversize material which does not pass through vibrating screener. | AO2B | |
| 004 | Cedarapids Vibrating Screening Deck – used to separate crushed material into a desired size. | AO2B | |
| 005 | Magnet Transfer Drop Point – used to separate metal material from recrushed oversize material (drop point ~ 2 feet) | AO2B | |
| 006 | Radial Stacker Belt No.1 – drop point were material falls from belt to crushed material stockpile | AO2B | |
| 007 | Radial Stacker Belt No.2 – drop point were material falls from belt to crushed material stockpile | AO2B | |
| 008 | Emissions from 325 H.P. Caterpillar, Model # 3512 (910kW) Diesel Generator – fired on No.2 virgin diesel fuel – used to power all equipment employed by this crushing - aggregate processing unit. | AO2B | |
| 009 | Fugitive emissions from paved and unpaved roads. | | |
| 010 | Fugitives from on site storage piles | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Application Processing Fee**

Check one: [ **X** ] Attached - Amount: **$1000.00** [ ] Not Applicable

**** Generator Emissions Exempt from Permitting Fees per FDEP**

**Construction/Modification Information**

| |
|---|
| 1. Description of Proposed Project or Alterations:<br>**This project consists of a State Wide Operation Permit application for a portable Cedarapids, Inc. Aggregate Crushing & Processing Plant owned and operated by Angelo's Recycled Materials, Inc. This crushing will serve the sole purpose of crushing and processing and reclaimed asphalt concrete that is recycled from the road, buildings, etc. and will be reused in the building or construction industry. This crushing unit has the capability of being portable and will travel from site to site "statewide". The Crushing Unit is referred to as "Reclaimed Crushing Unit No.4" is now located and sitting stationary, south of Bearss Avenue at the intersection of 148th Avenue and 12th Street in Tampa, Hillsborough County, Florida. This unit is powered by a 325 H.P. Caterpillar Diesel Generator fired on Virgin No.2 fuel oil with a maximum sulfur limit of 0.5% by weight.**<br><br>**Stockpiles and Roadways at this facility are watered on a regular basis by a sprinkler system and a 5 mph speed limit is enforced as to control any fugitive emissions that may be generated by vehicular traffic or prevailing winds.**<br><br>**This facility is a natural non-Title V facility and will comply with all FDEP Rules and Regulations.** |
| 2. Projected or Actual Date of Commencement of Construction: **NA (existing source)** |
| 3. Projected Date of Completion of Construction: **NA (already constructed)** |

**Application Comment**

**This project consists of a State Wide Operation Permit application for a portable Cedarapids, Inc. Aggregate Crushing & Processing Plant owned and operated by Angelo's Recycled Materials, Inc. This crushing will serve the sole purpose of crushing and processing and reclaimed asphalt concrete that is recycled from the road, buildings, etc. and will be reused in the building or construction industry. This crushing unit has the capability of being portable and will travel from site to site "statewide". The Crushing Unit is referred to as "Reclaimed Crushing Unit No.4" is now located and sitting stationary, south of Bearss Avenue at the intersection of 148th Avenue and 12th Street in Tampa, Hillsborough County, Florida. This unit is powered by a 325 H.P. Caterpillar Diesel Generator fired on Virgin No.2 fuel oil with a maximum sulfur limit of 0.5% by weight.**

**Stockpiles and Roadways at this facility are watered on a regular basis by a sprinkler system and a 5 mph speed limit is enforced as to control any fugitive emissions that may be generated by vehicular traffic or prevailing winds.**

**This facility is a natural non-Title V facility and will comply with all FDEP Rules and Regulations.**

## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

**Facility Location and Type**

| | | | |
|---|---|---|---|
| 1. Facility UTM Coordinates: **(Portable Unit – Location at present time)**<br>Zone: **17** East (km): **357.8** North (km): **3107.2** | | | |
| 2. Facility Latitude/Longitude:<br>Latitude (DD/MM/SS): **28°05'40" N** Longitude (DD/MM/SS): **82°26'50" W** | | | |
| 3. Governmental Facility Code: **O** | 4. Facility Status Code: **ACTIVE** | 5. Facility Major Group SIC Code: **14** | 6. Facility SIC(s): **1422** |

7. Facility Comment (limit to 500 characters):

**This project consists of a State Wide Operation Permit application for a portable Cedarapids, Inc. Aggregate Crushing & Processing Plant owned and operated by Angelo's Recycled Materials, Inc. This crushing will serve the sole purpose of crushing and processing and reclaimed asphalt concrete that is recycled from the road, buildings, etc. and will be reused in the building or construction industry. This crushing unit has the capability of being portable and will travel from site to site "statewide". The Crushing Unit is referred to as "Reclaimed Crushing Unit No.4" is now located and sitting stationary, south of Bearss Avenue at the intersection of 148th Avenue and 12th Street in Tampa, Hillsborough County, Florida. This unit is powered by a 325 H.P. Caterpillar Diesel Generator fired on Virgin No.2 fuel oil with a maximum sulfur limit of 0.5% by weight.**

**Stockpiles and Roadways at this facility are watered on a regular basis by a sprinkler system and a 5 mph speed limit is enforced as to control any fugitive emissions that may be generated by vehicular traffic or prevailing winds.**

**This facility is a natural non-Title V facility and will comply with all FDEP Rules and Regulations.**

**Facility Contact**

| |
|---|
| 1. Name and Title of Facility Contact:<br>**Mr. Richard A. Bazinet, Director of Florida Operations** |
| 2. Facility Contact Mailing Address:<br>Organization/Firm: **Angelo's Recycled Products, Inc.**<br>Street Address: **Post Office Box 1493**<br>City: **Largo** State: **Florida** Zip Code: **33779** |
| 3. Facility Contact Telephone Numbers:<br>Telephone: **(904) 527-9671** Fax: **(727) 586-5676** |

**Facility Regulatory Classifications**

**Check all that apply:**

| | |
|---|---|
| 1. [ ] Small Business Stationary Source? | [X ] Unknown |
| 2. [X ] Synthetic Non-Title V Source? | |
| 3. [X ] Synthetic Minor Source of Pollutants Other than HAPs? | |
| 4. [X ] Synthetic Minor Source of HAPs? | |
| 5. [X ] One or More Emissions Units Subject to NSPS? | |
| 6. [ ] One or More Emission Units Subject to NESHAP Recordkeeping or Reporting? | |
| 7. Facility Regulatory Classifications Comment (limit to 200 characters): **Natural Non-Title V Source** | |

**Rule Applicability Analysis**

**This facility is subject to the rules and provisions of 40 CFR 60, subpart 000.**

## B. FACILITY POLLUTANTS

**List of Pollutants Emitted**

| 1. Pollutant Emitted | 2. Pollutant Classif. | 3. Requested Emissions Cap lb/hour | tons/year | 4. Basis for Emissions Cap | 5. Pollutant Comment |
|---|---|---|---|---|---|
| **PM10** | **SM** | **NA** | **NA** | **RULE** | **<10% opacity from drop points, storage** |
| **PM** | **SM** | **NA** | **NA** | **RULE** | **Piles, <15% from crusher** |
| **SO2** | **SM** | **NA** | **NA** | **RULE** | **Emissions from diesel generator** |
| **NOx** | **SM** | **NA** | **NA** | **RULE** | **Subject to opacity limitations only** |
| **CO** | **SM** | **NA** | **NA** | **RULE** | **FAC 62-296.310** |
| **TOC** | **SM** | **NA** | **NA** | **RULE** | " |
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## C. FACILITY SUPPLEMENTAL INFORMATION

**Supplemental Requirements**

| |
|---|
| 1. Area Map Showing Facility Location:<br>[**X** ] Attached, Document ID:___**I**____ [ ] Not Applicable [ ] Waiver Requested |
| 2. Facility Plot Plan:<br>[**X** ] Attached, Document ID:__**II**_____[ ] Not Applicable [ ] Waiver Requested |
| 3. Process Flow Diagram(s):<br>[**X** ] Attached, Document ID:__**III**_ [ ] Not Applicable [ ] Waiver Requested |
| 4. Precautions to Prevent Emissions of Unconfined Particulate Matter:<br>[ ] Attached, Document ID:_____ [***X**] Not Applicable [ ] Waiver Requested<br>***On file at FDEP's Office*** |
| 5. Supplemental Information for Construction Permit Application:<br>[ ] Attached, Document ID:_____ [**X** ] Not Applicable<br>***On file at FDEP's Office*** |
| 6. Supplemental Requirements Comment: |

# EMISSIONS ID. NO. 001

## 200 TPH Cedarapids – Grizzly Feeder

## III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

### A. GENERAL EMISSIONS UNIT INFORMATION

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
**Cedarapids Inc. – Raw Material Recieving Hopper / Vibrating Grizzly Feeder System – used to feed uncrushed material to crusher.**

3. Emissions Unit Identification Number:
ID: **001**
[ ] No ID
[ ] ID Unknown

| 3. Emissions Unit Status Code: | 4. Initial Startup Date: | 5. Emissions Unit Major Group SIC Code: |
|---|---|---|
| **ACTIVE** | **UNKNOWN** | **14** |

6. Emissions Unit Comment: (Limit to 500 Characters):

**THIS AGGREGATE PROCESSING UNIT WILL CRUSH AND SCREEN ASPHALT ONLY, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY OCCUR THE MATERIAL WILL BE SPRAYED AS TO CONTROL ANY EMISSIONS GENERATED.**

**Emissions Unit Information Section __1___ of __10___**
**Receiving Hopper – Vibrating Grizzly Feeder**
**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (limit to 200 characters per device or method):

**ANY EMISSIONS THAT MAY BE GENERATED BY DUMPING OF UNCRUSHED MATERIAL INTO RECEIVING HOPPER AND VIBRATION OF MATERIAL BY GRIZZLY FEEDER INTO CRUSHER ARE CONTROLLED AT THIS FACILITY BY DAMPENING MATERIAL AS NEEDED AS TO CONTROL GENERATION OF FUGITIVES**

2. Control Device or Method Code(s): **061,099**

**Emissions Unit Details**

1. Package Unit: **RAW MATERIAL RECEIVING HOPPER / VIBRATING GRIZZLY FEEDER SYSTEM**
   Manufacturer: **CEDARAPIDS** Model Number: **NA**
2. Generator Nameplate Rating: MW
3. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate: **200 TPH AS RAW (UNCRUSHED) RECLAIMED ASPHALT OR CONCRETE**
4. Maximum Production Rate: **200 TPH AS RECLAIMED CRUSHED AND SCREENED ASPHALT (RAP) OR CONCRETE**
5. Requested Maximum Operating Schedule:
   **10** hours/day **6** days/week
   **52** weeks/year **3120** hours/year
7. Operating Capacity/Schedule Comment (limit to 200 characters):

**Dampened, uncrushed reclaimed asphalt material is fed into the material receiving hopper and grizzly feeder of the plant where any fugitive emissions generated are controlled by water spray heads mounted in the receiving hopper which sprays the material before it enters the grizzly feeder and crusher.**

**Emissions Unit Information Section __1___ of __10___**
**Receiving Hopper – Vibrating Grizzly Feeder**

## B. EMISSION POINT (STACK/VENT) INFORMATION

**Emission Point Description and Type**

| | |
|---|---|
| 1. Identification of Point on Plot Plan or Flow Diagram? **001 (Grizzly Feeder)** | 2. Emission Point Type Code: **4** |

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):
**NONE**

3. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
**NONE**

| | | |
|---|---|---|
| 4. Discharge Type Code: **F** | 6. Stack Height: feet | 7. Exit Diameter: feet |
| 8. Exit Temperature: °F | 9. Actual Volumetric Flow Rate: acfm | 10. Water Vapor: % |

| | |
|---|---|
| 11. Maximum Dry Standard Flow Rate: dscfm | 12. Nonstack Emission Point Height: **~15** FEET |

13. Emission Point UTM Coordinates: **(Relocatable source figures below are location now)**
Zone: **17** East (km): **357.8** North (km): **3107.2**

14. Emission Point Comment (limit to 200 characters):

**EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL**

**Emissions Unit Information Section __1___ of __10___**
**Receiving Hopper – Vibrating Grizzly Feeder**

## C. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type) (limit to 500 characters): | | |
|---|---|---|
| **Cedarapids Inc. – Raw Material Recieving Hopper / Vibrating Grizzly Feeder System – used to feed uncrushed material to crusher.** | | |
| 2. Source Classification Code (SCC): **30502511** | 3. SCC Units: **TONS OF PRODUCT PROCESSED** | |
| 4. Maximum Hourly Rate: **200 tph** | 5. Maximum Annual Rate: **624,000 ton** | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: **NA** | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type ) (limit to 500 characters): | | |
|---|---|---|
| 2. Source Classification Code (SCC): | 3. SCC Units: | |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

## D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

**Potential Emissions**

| | | |
|---|---|---|
| 1. Pollutant Emitted: **PM, PM10** | 2. Pollutant Regulatory Code: **WP** | |
| 3. Primary Control Device Code: **061** | 4. Secondary Control Device Code: **099** | 5. Total Percent Efficiency of Control: **80%** |
| 6. Potential Emissions: **PM10 = 0.42 lb/hr & 0.65 ton/hr**<br>**PM = 0.88 lb/hr & 1.36 ton/hr** | | 7. Synthetically Limited? [ X ] |
| 8. Emission Factor: **0.0021 lb/ton**<br>Reference: **AP-42** | | 8. Emissions Method Code: **3** |

10. Calculation of Emissions (limit to 600 characters):

**PM10 = (200 lb/ton)(0.0021 lb/ton) = 0.42 lb/hr**
**$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0021 lb/ton)] / 2000 lb/ton = 0.65 ton/yr**

**PM = [(200 lb/ton)(0.0021 lb/ton)] (2.1) = 0.88 lb/hr**

**$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0021 lb/ton)] / 2000 lb/ton (2.1) = 1.36 ton/yr**

11. Pollutant Potential Emissions Comment (limit to 200 characters):
**Raw Material Receiving Hopper / Grizzly Feeder – subject to 40 CFR 60, subpart 000 rules and regulations.**

**Allowable Emissions** Allowable Emissions _____ of _____

| | |
|---|---|
| 1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000** | 2. Future Effective Date of Allowable Emissions: **Initial Compliance Test** |
| 3. Requested Allowable Emissions and Units: **< 10 % Opacity** | 4. Equivalent Allowable Emissions:<br>lb/hour tons/year |

5. Method of Compliance (limit to 60 characters):
**Initial and Annual EPA Method 9 Compliance Testing**

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

## E. VISIBLE EMISSIONS INFORMATION
## (Only Emissions Units Subject to a VE Limitation)

**Visible Emissions Limitation:** Visible Emissions Limitation _____ of _____

| | |
|---|---|
| 1. Visible Emissions Subtype: **VE** | 2. Basis for Allowable Opacity:<br>[**X**] Rule [ ] Other |
| 3. Requested Allowable Opacity:<br>Normal Conditions: **<10%** Exceptional Conditions: **<10%**<br>Maximum Period of Excess Opacity Allowed: **0** min/hour | |
| 4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.** | |
| 5. Visible Emissions Comment (limit to 200 characters): | |

## F. CONTINUOUS MONITOR INFORMATION
## (Only Emissions Units Subject to Continuous Monitoring)

**Continuous Monitoring System:** Continuous Monitor _____ of _____

| | |
|---|---|
| 1. Parameter Code:<br>**NONE** | 2. Pollutant(s): |
| 3. CMS Requirement: | [ ] Rule [ ] Other |
| 4. Monitor Information:<br>Manufacturer:<br>Model Number: Serial Number: | |
| 5. Installation Date: | 6. Performance Specification Test Date: |
| 7. Continuous Monitor Comment (limit to 200 characters): | |

## G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

**Supplemental Requirements**

| |
|---|
| 1. Process Flow Diagram<br>[X ] Attached, Document ID:__**III**____ [ ] Not Applicable [ ] Waiver Requested |
| 2. Fuel Analysis or Specification<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 3. Detailed Description of Control Equipment<br>[ ] Attached, Document ID:_____ [ ] Not Applicable [ ] Waiver Requested<br>***On file at FDEP's Office*** |
| 4. Description of Stack Sampling Facilities<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 5. Compliance Test Report<br>[X ] Attached, Document ID:_____<br>[X ] Previously submitted, Date:__**3/2000**_____<br>[ ] Not Applicable |
| 6. Procedures for Startup and Shutdown<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 7. Operation and Maintenance Plan<br>[ ] Attached, Document ID:__ ____ [X ] Not Applicable [ ] Waiver Requested<br>***On file @ FDEP's Office*** |
| 8. Supplemental Information for Construction Permit Application<br>[ ] Attached, Document ID:____ [X ] Not Applicable<br>***On file at FDEP's Office*** |
| 9. Other Information Required by Rule or Statute<br>[ ] Attached, Document ID:_____ [X ] Not Applicable |
| 10. Supplemental Requirements Comment: |

# EMISSIONS ID. NO. 002

## Cedarapids Model 3054 Jaw Crusher

## III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

## A. GENERAL EMISSIONS UNIT INFORMATION

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

9. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
**Cedarapids, Inc. Model #3054 Jaw Crusher and Discharge Pan – where crushed material exits crushing unit and falls onto conveyor belt.**

3. Emissions Unit Identification Number:
ID: **002**

[ ] No ID
[ ] ID Unknown

| 10. Emissions Unit Status Code: | 11. Initial Startup Date: | 12. Emissions Unit Major Group SIC Code: |
|---|---|---|
| **ACTIVE** | **UNKNOWN** | **14** |

13. Emissions Unit Comment: (Limit to 500 Characters):

**THIS AGGREGATE PROCESSING UNIT WILL CRUSH AND CONVEY RECLAIMED ASPHALT ONLY, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY OCCUR THE MATERIAL WILL BE SPRAYED AS TO CONTROL ANY EMISSIONS GENERATED.**

**Emissions Unit Control Equipment**

6. Control Equipment/Method Description (limit to 200 characters per device or method):

**ANY EMISSIONS THAT MAY BE GENERATED BY CRUSHING AND DISCHARGING OF UNCRUSHED MATERIAL ONTO DISCHARGE PAN AND CONVEYOR BELT INTO CRUSHER ARE CONTROLLED AT THIS FACILITY BY DAMPENING MATERIAL AS NEEDED AS TO CONTROL GENERATION OF FUGITIVES**

2. Control Device or Method Code(s): **061,099**

**Emissions Unit Details**

1. Package Unit: **CRUSHER / DISCHARGE PAN**
   Manufacturer: **CEDARAPIDS** Model Number: **3054**
2. Generator Nameplate Rating: MW
3. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate: **200 TPH AS RAW (UNCRUSHED) RECLAIMED ASPHALT OR CONCRETE**
4. Maximum Production Rate: **200 TPH AS RECLAIMED CRUSHED AND SCREENED ASPHALT (RAP) OR CONCRETE**
5. Requested Maximum Operating Schedule:
   **10** hours/day **6** days/week
   **52** weeks/year **3120** hours/year

14. Operating Capacity/Schedule Comment (limit to 200 characters):

**Dampened, uncrushed reclaimed asphalt material is fed into the crusher from the receiving hopper and grizzly feeder of the plant where it is crushed and discharged to the discharge pan where it fall onto a conveyor belt. Any fugitive emissions generated are controlled by dampening of the material before it enters the grizzly feeder and crusher as needed.**

**Emissions Unit Information Section __2___ of __10___**
**Cedarapids Model 3054 Jaw Crusher**

## B. EMISSION POINT (STACK/VENT) INFORMATION

**Emission Point Description and Type**

| | |
|---|---|
| 1. Identification of Point on Plot Plan or Flow Diagram? **002 (Cone Crusher)** | 7. Emission Point Type Code: **4** |

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):
**NONE**

8. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
**NONE**

| | | |
|---|---|---|
| 9. Discharge Type Code: **F** | 6. Stack Height: feet | 7. Exit Diameter: feet |
| 8. Exit Temperature: °F | 9. Actual Volumetric Flow Rate: acfm | 10. Water Vapor: % |

| | |
|---|---|
| 11. Maximum Dry Standard Flow Rate: dscfm | 12. Nonstack Emission Point Height: ~7 FEET |

13. Emission Point UTM Coordinates: **(Relocatable unit figures below are location now)**
Zone: **17** East (km): **357.8** North (km): **3107.2**

14. Emission Point Comment (limit to 200 characters):

**EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL**

**Emissions Unit Information Section __2___ of __10___**
**Cedarapids Model 3054 Jaw Crusher**

## C. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type) (limit to 500 characters): | | |
|---|---|---|
| **Cedarapids, Inc. – Portable Impact Crushing Unit Model 3054 – Crusher Discharge Pan/Belt. (Material Handling - Emissions related to dropping material out of crusher onto belt.)** | | |
| 3. Source Classification Code (SCC): **30502511** | 3. SCC Units: **TONS OF PRODUCT PROCESSED** | |
| 4. Maximum Hourly Rate: **200 tph** | 10. Maximum Annual Rate: **624,000 ton** | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: **NA** | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type ) (limit to 500 characters): | | |
|---|---|---|
| 2. Source Classification Code (SCC): | 3. SCC Units: | |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

## D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

**Potential Emissions**

| | | |
|---|---|---|
| 1. Pollutant Emitted: **PM, PM10** | 2. Pollutant Regulatory Code: **WP** | |
| 3. Primary Control Device Code: **061** | 4. Secondary Control Device Code: **099** | 5. Total Percent Efficiency of Control: **80%** |
| 6. Potential Emissions: **PM10 = 0.42 lb/hr & 0.66 ton/hr**<br>**PM = 0.88 lb/hr & 1.39 ton/hr** | | 7. Synthetically Limited? [ **X** ] |
| 8. Emission Factor: **0.0021 lb/ton**<br>Reference: **AP-42 (Table 11.19.2-2 controlled) and footnote © for PM Emissions** | | 15. Emissions Method Code: **3** |

10. Calculation of Emissions (limit to 600 characters):

**PM10 = (200 lb/ton)(0.0021 lb/ton) = 0.42 lb/hr**
**$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0021 lb/ton)] / 2000 lb/ton = 0.66 ton/yr**

**PM = [(200 lb/ton)(0.0021 lb/ton)] (2.1) = 0.88 lb/hr**

**$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0021 lb/ton)] / 2000 lb/ton (2.1) = 1.39 ton/yr**

11. Pollutant Potential Emissions Comment (limit to 200 characters):
**Crusher and Discharge Pan – subject to 40 CFR 60, subpart 000 rules and regulations.**

**Allowable Emissions** Allowable Emissions _____ of _____

| | |
|---|---|
| 1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000** | 2. Future Effective Date of Allowable Emissions: **Initial Compliance Test** |
| 3. Requested Allowable Emissions and Units: **< 15 % Opacity** | 4. Equivalent Allowable Emissions: lb/hour tons/year |

5. Method of Compliance (limit to 60 characters):
**Initial and Annual EPA Method 9 Compliance Testing**

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

## E. VISIBLE EMISSIONS INFORMATION
**(Only Emissions Units Subject to a VE Limitation)**

**Visible Emissions Limitation:** Visible Emissions Limitation _____ of _____

| | |
|---|---|
| 1. Visible Emissions Subtype: **VE** | 2. Basis for Allowable Opacity:<br>[X] Rule [ ] Other |
| 3. Requested Allowable Opacity:<br>Normal Conditions: **<15%** Exceptional Conditions: **<15%**<br>Maximum Period of Excess Opacity Allowed: **0** min/hour | |
| 4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.** | |
| 5. Visible Emissions Comment (limit to 200 characters): | |

## F. CONTINUOUS MONITOR INFORMATION
**(Only Emissions Units Subject to Continuous Monitoring)**

**Continuous Monitoring System:** Continuous Monitor _____ of _____

| | |
|---|---|
| 1. Parameter Code:<br>**NONE** | 2. Pollutant(s): |
| 3. CMS Requirement: | [ ] Rule [ ] Other |
| 4. Monitor Information:<br>Manufacturer:<br>Model Number: Serial Number: | |
| 5. Installation Date: | 6. Performance Specification Test Date: |
| 7. Continuous Monitor Comment (limit to 200 characters): | |

## G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

**Supplemental Requirements**

1. Process Flow Diagram
   [**X** ] Attached, Document ID:__**III**____[ ] Not Applicable [ ] Waiver Requested

2. Fuel Analysis or Specification
   [ ] Attached, Document ID:_____ [**X** ] Not Applicable [ ] Waiver Requested

3. Detailed Description of Control Equipment
   [ ] Attached, Document ID:_____ [**X** ] Not Applicable [ ] Waiver Requested
   ***On file at FDEP's Office***

4. Description of Stack Sampling Facilities
   [ ] Attached, Document ID:_____ [**X** ] Not Applicable [ ] Waiver Requested

5. Compliance Test Report
   [**X** ] Attached, Document ID:__**IV**_____
   [**X** ] Previously submitted, Date:___*03/2000*_____
   [ ] Not Applicable

6. Procedures for Startup and Shutdown
   [ ] Attached, Document ID:_____ [**X** ] Not Applicable [ ] Waiver Requested

7. Operation and Maintenance Plan
   [] Attached, Document ID:_____ [**X** ] Not Applicable [ ] Waiver Requested
   ***On file at FDEP's Office***

8. Supplemental Information for Construction Permit Application
   [ ] Attached, Document ID:____ [ ] Not Applicable
   ***On file at FDEP's Office***

9. Other Information Required by Rule or Statute
   [ ] Attached, Document ID:_____ [**X** ] Not Applicable

10. Supplemental Requirements Comment:

# EMISSIONS ID. NO. 003

## Cedarapids Cone Crusher Model RC5411

## III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

### A. GENERAL EMISSIONS UNIT INFORMATION

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

16. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
**Cedarapids, Inc. Model #RC5411 Cone Crusher and Discharge Pan – where oversize material is crushed and crushed material exits crushing unit and falls onto conveyor belt.**

3. Emissions Unit Identification Number:
ID: **003**
[ ] No ID
[ ] ID Unknown

| 17. Emissions Unit Status Code: | 18. Initial Startup Date: | 19. Emissions Unit Major Group SIC Code: |
|---|---|---|
| **ACTIVE** | **UNKNOWN** | **14** |

20. Emissions Unit Comment: (Limit to 500 Characters):

**THIS AGGREGATE PROCESSING UNIT WILL CRUSH AND CONVEY RECLAIMED ASPHALT ONLY, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY OCCUR THE MATERIAL WILL BE SPRAYED AS TO CONTROL ANY EMISSIONS GENERATED.**

**Emissions Unit Information Section __3___ of __10___**
**Cedarapids Model RC5411 Cone Crusher**
**Emissions Unit Control Equipment**

| |
|---|
| 11. Control Equipment/Method Description (limit to 200 characters per device or method):<br><br>**ANY EMISSIONS THAT MAY BE GENERATED BY CRUSHING AND DISCHARGING OF UNCRUSHED MATERIAL ONTO DISCHARGE PAN OF CONE CRUSHING SYSTEM AND CONVEYOR BELT INTO CRUSHER ARE CONTROLLED AT THIS FACILITY BY DAMPENING MATERIAL AS NEEDED AS TO CONTROL GENERATION OF FUGITIVES** |
| 2. Control Device or Method Code(s): **061,099** |

**Emissions Unit Details**

| | | |
|---|---|---|
| 1. Package Unit: **CONE CRUSHER / DISCHARGE PAN**<br>Manufacturer: **CEDARAPIDS** | Model Number: **RC5411** | |
| 2. Generator Nameplate Rating: | MW | |
| 3. Incinerator Information:<br>Dwell Temperature:<br>Dwell Time:<br>Incinerator Afterburner Temperature: | | °F<br>seconds<br>°F |

**Emissions Unit Operating Capacity and Schedule**

| | | |
|---|---|---|
| 1. Maximum Heat Input Rate: | | mmBtu/hr |
| 2. Maximum Incineration Rate: | lb/hr | tons/day |
| 3. Maximum Process or Throughput Rate: **200 TPH AS RAW (UNCRUSHED) RECLAIMED ASPHALT OR CONCRETE** | | |
| 4. Maximum Production Rate: **200 TPH AS RECLAIMED CRUSHED AND SCREENED ASPHALT (RAP) OR CONCRETE** | | |
| 5. Requested Maximum Operating Schedule: | | |
| **10** hours/day | | **6** days/week |
| **52** weeks/year | | **3120** hours/year |

21. Operating Capacity/Schedule Comment (limit to 200 characters):

**Dampened oversized material that bypasses the vibrating screener is fed into the cone crusher from the vibrating screener of the plant where it is crushed and discharged to the discharge pan where it fall onto a conveyor belt. Any fugitive emissions generated are controlled by dampening of the material before it enters the grizzly feeder and crusher as needed.**

**Emissions Unit Information Section __3___ of __10___**
**Cedarapids Model RC5411 Cone Crusher**

## B. EMISSION POINT (STACK/VENT) INFORMATION

**Emission Point Description and Type**

| | |
|---|---|
| 1. Identification of Point on Plot Plan or Flow Diagram? **003 (cone crusher)** | 12. Emission Point Type Code: **4** |
| 3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **NONE** | |
| 13. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NONE** | |

| | | |
|---|---|---|
| 14. Discharge Type Code: **F** | 6. Stack Height: feet | 7. Exit Diameter: feet |
| 8. Exit Temperature: °F | 9. Actual Volumetric Flow Rate: acfm | 10. Water Vapor: % |

| | |
|---|---|
| 11. Maximum Dry Standard Flow Rate: dscfm | 12. Nonstack Emission Point Height: ~7 FEET |

13. Emission Point UTM Coordinates: **(Relocatable unit figures below are location now)**

Zone: **17** East (km): **357.8** North (km): **3107.2**

14. Emission Point Comment (limit to 200 characters):

**EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL**

## C. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type) (limit to 500 characters): | | |
|---|---|---|
| **Cedarapids, Inc. – Portable Cone Crushing Unit Model RC5411 – Crusher Discharge Pan/Belt. (Material Handling – Emissions related to dropping material out of crusher onto belt.)** | | |
| 4. Source Classification Code (SCC): **30502511** | 3. SCC Units: **TONS OF PRODUCT PROCESSED** | |
| 4. Maximum Hourly Rate: **200 tph** | 15. Maximum Annual Rate: **624,000 ton** | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: **NA** | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type ) (limit to 500 characters): | | |
|---|---|---|
| 2. Source Classification Code (SCC): | 3. SCC Units: | |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

**Emissions Unit Information Section ___3___ of __10____**

**Pollutant Detail Information Page ___1___ of __1____**

## D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

**Potential Emissions**

| | | |
|---|---|---|
| 1. Pollutant Emitted: **PM, PM10** | 2. Pollutant Regulatory Code: **WP** | |
| 3. Primary Control Device Code: **061** | 4. Secondary Control Device Code: **099** | 5. Total Percent Efficiency of Control: **80%** |
| 6. Potential Emissions: **PM10 = 0.42 lb/hr & 0.66 ton/hr**<br>**PM = 0.88 lb/hr & 1.39 ton/hr** | | 7. Synthetically Limited? [ X ] |
| 8. Emission Factor: **0.0021 lb/ton**<br>Reference: **AP-42 (Table 11.19.2-2 controlled) and footnote © for PM Emissions** | | 22. Emissions Method Code: **3** |

10. Calculation of Emissions (limit to 600 characters):

**PM10 = (200 lb/hr)(0.0021 lb/ton) = 0.42 lb/hr**
**$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0021 lb/ton)] / 2000 lb/ton = 0.66 ton/yr**

**PM = [(200 lb/ton)(0.0021 lb/ton)] (2.1) = 0.88 lb/hr**

**$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0021 lb/ton)] / 2000 lb/ton (2.1) = 1.39 ton/yr**

11. Pollutant Potential Emissions Comment (limit to 200 characters):
**Cone Crusher and Discharge Pan – subject to 40 CFR 60, subpart 000 rules and regulations.**

**Allowable Emissions** Allowable Emissions _____ of _____

| | |
|---|---|
| 1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000** | 2. Future Effective Date of Allowable Emissions: **Initial Compliance Test** |
| 3. Requested Allowable Emissions and Units: **< 15 % Opacity** | 4. Equivalent Allowable Emissions: lb/hour tons/year |
| 5. Method of Compliance (limit to 60 characters): **Initial and Annual EPA Method 9 Compliance Testing** | |
| 6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): | |

## E. VISIBLE EMISSIONS INFORMATION
## (Only Emissions Units Subject to a VE Limitation)

**Visible Emissions Limitation:** Visible Emissions Limitation _____ of _____

| | |
|---|---|
| 1. Visible Emissions Subtype: **VE** | 2. Basis for Allowable Opacity:<br>[X] Rule [ ] Other |
| 3. Requested Allowable Opacity:<br>Normal Conditions: **<15%** Exceptional Conditions: **<15%**<br>Maximum Period of Excess Opacity Allowed: **0** min/hour | |
| 4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.** | |
| 5. Visible Emissions Comment (limit to 200 characters): | |

## F. CONTINUOUS MONITOR INFORMATION
## (Only Emissions Units Subject to Continuous Monitoring)

**Continuous Monitoring System:** Continuous Monitor _____ of _____

| | |
|---|---|
| 1. Parameter Code:<br>**NONE** | 2. Pollutant(s): |
| 3. CMS Requirement: | [ ] Rule [ ] Other |
| 4. Monitor Information:<br>Manufacturer:<br>Model Number: Serial Number: | |
| 5. Installation Date: | 6. Performance Specification Test Date: |
| 7. Continuous Monitor Comment (limit to 200 characters): | |

## G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

**Supplemental Requirements**

1. Process Flow Diagram
   [X ] Attached, Document ID:__III____[ ] Not Applicable [ ] Waiver Requested

2. Fuel Analysis or Specification
   [ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested

3. Detailed Description of Control Equipment
   [ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested
   ***On file at FDEP's Office***

4. Description of Stack Sampling Facilities
   [ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested

5. Compliance Test Report
   [X ] Attached, Document ID:___IV_____
   [X ] Previously submitted, Date:__*03/2000*_____
   [ ] Not Applicable

6. Procedures for Startup and Shutdown
   [ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested

7. Operation and Maintenance Plan
   [ ] Attached, Document ID:_____[X ] Not Applicable [ ] Waiver Requested
   ***On file at FDEP's Office***

8. Supplemental Information for Construction Permit Application
   [ ] Attached, Document ID:_____ [ ] Not Applicable
   ***On file at FDEP's Office***

9. Other Information Required by Rule or Statute
   [ ] Attached, Document ID:_____ [X ] Not Applicable

10. Supplemental Requirements Comment:

# EMISSIONS ID. NO. 004

## Cedarapids Vibrating Screener

## III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

## A. GENERAL EMISSIONS UNIT INFORMATION

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

23. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
**Cedarapids, Inc. Vibrating Screener – Vibrating Screener to Screener Discharge Conveying System (drop point from Vibrating Screener to Screener Discharge Conveying System)**

3. Emissions Unit Identification Number:
ID: **004**
[ ] No ID
] ID Unknown

| 24. Emissions Unit Status Code: | 25. Initial Startup Date: | 26. Emissions Unit Major Group SIC Code: |
|---|---|---|
| **ACTIVE** | **UNKNOWN** | **14** |

27. Emissions Unit Comment: (Limit to 500 Characters):

**The fugitive emissions generated from this drop point where crushed material leaves the vibrating screener and is dropped onto the screened material discharge belt are controlled by the water spray bar system on a as needed basis, mounted in the area of the discharge pan / conveying system. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from previous spray systems and is also dampened before it leaves the belt and drops to it's stockpile.**

**Emissions Unit Information Section __4___ of __10___**
**Cedarapids Vibrating Screener**
**Emissions Unit Control Equipment**

| 1. Control Equipment/Method Description (limit to 200 characters per device or method): |
|---|
| **The fugitive emissions generated from this drop point where crushed material leaves the vibrating screener and is dropped onto the screened material discharge belt are controlled by the water spray bar system on a as needed basis, mounted in the area of the discharge pan / conveying system. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from previous spray systems and is also dampened before it leaves the belt and drops to it's stockpile.** |
| 2. Control Device or Method Code(s): **061,099** |

**Emissions Unit Details**

| | | |
|---|---|---|
| 1. Package Unit: **VIBRATING SCREENER** Manufacturer: **CEDARAPIDS** | Model Number: **RC5411** | |
| 2. Generator Nameplate Rating: | MW | |
| 3. Incinerator Information: | | |
| Dwell Temperature: | | °F |
| Dwell Time: | | seconds |
| Incinerator Afterburner Temperature: | | °F |

**Emissions Unit Operating Capacity and Schedule**

| | | |
|---|---|---|
| 1. Maximum Heat Input Rate: | | mmBtu/hr |
| 2. Maximum Incineration Rate: | lb/hr | tons/day |
| 3. Maximum Process or Throughput Rate: **200 TPH AS RAW (UNCRUSHED) RECLAIMED ASPHALT OR CONCRETE** | | |
| 4. Maximum Production Rate: **200 TPH AS RECLAIMED CRUSHED AND SCREENED ASPHALT (RAP) OR CONCRETE** | | |
| 5. Requested Maximum Operating Schedule: | | |
| **10** hours/day | | **6** days/week |
| **52** weeks/year | | **3120** hours/year |

| 28. Operating Capacity/Schedule Comment (limit to 200 characters): |
|---|
| **The fugitive emissions generated from this drop point where crushed material leaves the vibrating screener and is dropped onto the screened material discharge belt are controlled by the water spray bar system on a as needed basis, mounted in the area of the discharge pan / conveying system. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from previous spray systems and is also dampened before it leaves the belt and drops to it's stockpile.** |

**Emissions Unit Information Section __4___ of __10___**
**Cedarapids Vibrating Screener**

## B. EMISSION POINT (STACK/VENT) INFORMATION

**Emission Point Description and Type**

| | |
|---|---|
| 1. Identification of Point on Plot Plan or Flow Diagram? **004 (Vibrating Screener)** | 16. Emission Point Type Code: **4** |
| 3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **NONE** | |
| 17. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NONE** | |

| | | |
|---|---|---|
| 18. Discharge Type Code: **F** | 6. Stack Height: feet | 7. Exit Diameter: feet |
| 8. Exit Temperature: °F | 9. Actual Volumetric Flow Rate: acfm | 10. Water Vapor: % |

| | |
|---|---|
| 11. Maximum Dry Standard Flow Rate: dscfm | 12. Nonstack Emission Point Height: **~10** FEET |

13. Emission Point UTM Coordinates: **(Relocatable unit figures below are location now)**

Zone: **17** East (km): **357.8** North (km): **3107.2**

14. Emission Point Comment (limit to 200 characters):

**EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL**

**Emissions Unit Information Section __4___ of __10___**
**Cedarapids Vibrating Screener**

## C. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type) (limit to 500 characters): | | |
|---|---|---|
| **Cedarapids, Inc. – Portable Crushing Unit – Vibrating Screener to Screened Material Discharge Belt. (Material Handling - Emissions related to conveying of reclaimed crushed material).Portable Cone (Material Handling - Emissions related to dropping material out of screener onto belt.)** | | |
| 5. Source Classification Code (SCC): **30502503** | 3. SCC Units: **TONS OF PRODUCT PROCESSED** | |
| 4. Maximum Hourly Rate: **200 tph** | 19. Maximum Annual Rate: **624,000 ton** | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: **NA** | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type ) (limit to 500 characters): | | |
|---|---|---|
| 2. Source Classification Code (SCC): | 3. SCC Units: | |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

## D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

**Potential Emissions**

| | | |
|---|---|---|
| 1. Pollutant Emitted: **PM, PM10** | 2. Pollutant Regulatory Code: **WP** | |
| 3. Primary Control Device Code: **061** | 4. Secondary Control Device Code: **099** | 5. Total Percent Efficiency of Control: **80%** |
| 6. Potential Emissions: **PM10 = 0.96 lb/hr, 1.50 ton/yr**<br>**PM = 2.02 lb/hr, 3.14 ton/yr** | | 7. Synthetically Limited? [ **X** ] |
| 8. Emission Factor: **0.0048 lb/ton**<br>Reference: **AP-42 (Table 11.19.2-2 controlled) and footnote © for PM Emissions** | | 29. Emissions Method Code: **3** |

10. Calculation of Emissions (limit to 600 characters):

**$PM10_{yearly}$ = [(200 ton/hr)(3120 hr/yr)(0.0048 lb/ton)] / (2000 lb/ton) = 1.50 ton/yr**
**$PM10_{hour}$ = [(200 ton/hr)(0.0048 lb/ton)] = 0.96 lb/hr**

**$TSP_{yearly}$ = [(200 ton/hr)(3120 hr/yr)(0.0048 lb/ton)] (2.1) / (2000 lb/ton) = 3.14 ton/yr**
**$TSP_{hour}$ = [(200 ton/hr)(0.0048 lb/ton)] (2.1) = 2.02 lb/hr**

11. Pollutant Potential Emissions Comment (limit to 200 characters):
**Vibrating Screener – subject to 40 CFR 60, subpart 000 rules and regulations.**

**Allowable Emissions** Allowable Emissions _____ of _____

| | |
|---|---|
| 1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000** | 2. Future Effective Date of Allowable Emissions: **Initial Compliance Test** |
| 3. Requested Allowable Emissions and Units: **< 10 % Opacity** | 4. Equivalent Allowable Emissions:<br>lb/hour tons/year |
| 5. Method of Compliance (limit to 60 characters):<br>**Initial and Annual EPA Method 9 Compliance Testing** | |
| 6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): | |

## E. VISIBLE EMISSIONS INFORMATION
## (Only Emissions Units Subject to a VE Limitation)

**Visible Emissions Limitation:** Visible Emissions Limitation _____ of _____

| | |
|---|---|
| 1. Visible Emissions Subtype: **VE** | 2. Basis for Allowable Opacity:<br>[X] Rule [ ] Other |
| 3. Requested Allowable Opacity:<br>Normal Conditions: **<10%** Exceptional Conditions: **<10%**<br>Maximum Period of Excess Opacity Allowed: **0** min/hour | |
| 4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.** | |
| 5. Visible Emissions Comment (limit to 200 characters): | |

## F. CONTINUOUS MONITOR INFORMATION
## (Only Emissions Units Subject to Continuous Monitoring)

**Continuous Monitoring System:** Continuous Monitor _____ of _____

| | |
|---|---|
| 1. Parameter Code:<br>**NONE** | 2. Pollutant(s): |
| 3. CMS Requirement: | [ ] Rule [ ] Other |
| 4. Monitor Information:<br>Manufacturer:<br>Model Number: Serial Number: | |
| 5. Installation Date: | 6. Performance Specification Test Date: |
| 7. Continuous Monitor Comment (limit to 200 characters): | |

## G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

**Supplemental Requirements**

| |
|---|
| 1. Process Flow Diagram<br>[X ] Attached, Document ID: **III** [ ] Not Applicable [ ] Waiver Requested |
| 2. Fuel Analysis or Specification<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 3. Detailed Description of Control Equipment<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested<br>***On file at FDEP's Office*** |
| 4. Description of Stack Sampling Facilities<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 5. Compliance Test Report<br>[X ] Attached, Document ID: **IV**<br>[X ] Previously submitted, Date: ***03/2000***<br>[ ] Not Applicable |
| 6. Procedures for Startup and Shutdown<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 7. Operation and Maintenance Plan<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested<br>***On file at FDEP's Office*** |
| 8. Supplemental Information for Construction Permit Application<br>[ ] Attached, Document ID:_____ [ ] Not Applicable<br>***On file at FDEP's Office*** |
| 9. Other Information Required by Rule or Statute<br>[ ] Attached, Document ID:_____ [X ] Not Applicable |
| 10. Supplemental Requirements Comment: |

# EMISSIONS ID. NO. 005

## Emissions From Magnet Transfer Drop

## III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

## A. GENERAL EMISSIONS UNIT INFORMATION

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

30. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
**Cedarapids, Inc. Magnet Transfer Point – Transfer Point where metal is extracted from oversized crushed material drops to a transfer belt to be run back through screener (drop point from magnet belt to transfer belt)**

| 3. Emissions Unit Identification Number: ID: **005** | | [ ] No ID ] ID Unknown |
|---|---|---|
| 31. Emissions Unit Status Code: **ACTIVE** | 32. Initial Startup Date: **UNKNOWN** | 33. Emissions Unit Major Group SIC Code: **14** |

34. Emissions Unit Comment: (Limit to 500 Characters):

**The fugitive emissions generated from this drop point where crushed material leaves the magnet belt and is dropped onto a transfer belt to be rescreened. This material will be controlled by the water spray bar system on a as needed basis, mounted in the area of the discharge pan / conveying system. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from previous spray systems and is also dampened before it leaves the belt and drops to it's stockpile.**

**Emissions Unit Information Section __5___ of __10___**
**Cedarapids Magnet Transfer Point**
**Emissions Unit Control Equipment**

| 1. Control Equipment/Method Description (limit to 200 characters per device or method): |
|---|
| **The fugitive emissions generated from this drop point where crushed material leaves the magnet belt and is dropped onto the transfer belt is controlled by the water spray bar system on a as needed basis, mounted in the area of the discharge pan / conveying system. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from previous spray systems and is also dampened before it leaves the belt and drops to it's stockpile.** |
| 2. Control Device or Method Code(s): **061,099** |

**Emissions Unit Details**

| | | |
|---|---|---|
| 1. Package Unit: **Magnet Transfer Point** | | |
| Manufacturer: **CEDARAPIDS** | Model Number: **RC5411** | |
| 2. Generator Nameplate Rating: | MW | |
| 3. Incinerator Information: | | |
| Dwell Temperature: | | °F |
| Dwell Time: | | seconds |
| Incinerator Afterburner Temperature: | | °F |

**Emissions Unit Operating Capacity and Schedule**

| | | |
|---|---|---|
| 1. Maximum Heat Input Rate: | | mmBtu/hr |
| 2. Maximum Incineration Rate: | lb/hr | tons/day |
| 3. Maximum Process or Throughput Rate: **200 TPH AS RAW (UNCRUSHED) RECLAIMED ASPHALT OR CONCRETE** | | |
| 4. Maximum Production Rate: **200 TPH AS RECLAIMED CRUSHED AND SCREENED ASPHALT (RAP) OR CONCRETE** | | |
| 5. Requested Maximum Operating Schedule: | | |
| **10** hours/day | | **6** days/week |
| **52** weeks/year | | **3120** hours/year |
| 35. Operating Capacity/Schedule Comment (limit to 200 characters): | | |
| **The fugitive emissions generated from this drop point where crushed material leaves the magnet belt is dropped onto the transfer material discharge belt are controlled by the water spray bar system on a as needed basis, mounted in the area of the discharge pan / conveying system. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from previous spray systems and is also dampened before it leaves the belt and drops to it's stockpile.** | | |

**Emissions Unit Information Section __5___ of __10___**
**Cedarapids Magnet Transfer Point**

## B. EMISSION POINT (STACK/VENT) INFORMATION

**Emission Point Description and Type**

| | | |
|---|---|---|
| 1. Identification of Point on Plot Plan or Flow Diagram? **005 (Magnet Trans. Pt.)** | | 20. Emission Point Type Code: **4** |
| 3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **NONE** | | |
| 21. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NONE** | | |
| 22. Discharge Type Code: **F** | 6. Stack Height: feet | 7. Exit Diameter: feet |
| 8. Exit Temperature: °F | 9. Actual Volumetric Flow Rate: acfm | 10. Water Vapor: % |
| 11. Maximum Dry Standard Flow Rate: dscfm | | 12. Nonstack Emission Point Height: **~4** FEET |
| 13. Emission Point UTM Coordinates: **(Relocatable unit figures below are location now)** Zone: **17** East (km): **357.8** North (km): **3107.2** | | |
| 14. Emission Point Comment (limit to 200 characters): **EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL** | | |

## C. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type) (limit to 500 characters): | | |
|---|---|---|
| **Cedarapids, Inc. – Portable Crushing Unit – Magnet Transfer Point. (Material Handling - Emissions related to conveying of reclaimed crushed material from one belt to another)** | | |
| 6. Source Classification Code (SCC): **30502505** | 3. SCC Units: **TONS OF PRODUCT PROCESSED** | |
| 4. Maximum Hourly Rate: **200 tph** | 23. Maximum Annual Rate: **624,000 ton** | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: **NA** | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type ) (limit to 500 characters): | | |
|---|---|---|
| 2. Source Classification Code (SCC): | 3. SCC Units: | |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

**Emissions Unit Information Section** ___5___ **of** __10____

**Pollutant Detail Information Page** ___1___ **of** __1____

## D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

**Potential Emissions**

| | | |
|---|---|---|
| 1. Pollutant Emitted: **PM, PM10** | 2. Pollutant Regulatory Code: **WP** | |
| 3. Primary Control Device Code: **061** | 4. Secondary Control Device Code: **099** | 5. Total Percent Efficiency of Control: **80%** |
| 6. Potential Emissions: **PM10 = 0.96 lb/hr, 1.50 ton/yr**<br>**PM = 2.02 lb/hr, 3.14 ton/yr** | | 7. Synthetically Limited? [ X ] |
| 8. Emission Factor: **0.0021 lb/ton**<br>Reference: **AP-42 (Table 11.19.2-2 controlled) and footnote © for PM Emissions** | | 36. Emissions Method Code: **3** |

10. Calculation of Emissions (limit to 600 characters):

**$PM10_{yearly}$ = [(200 ton/hr)(3120 hr/yr)(0.0048 lb/ton)] / (2000 lb/ton) = 1.50 ton/yr**
**$PM10_{hour}$ = [(200 ton/hr)(0.0048 lb/ton)] = 0.96 lb/hr**

**$TSP_{yearly}$ = [(200 ton/hr)(3120 hr/yr)(0.0048 lb/ton)] (2.1) / (2000 lb/ton) = 3.14 ton/yr**
**$TSP_{hour}$ = [(200 ton/hr)(0.0048 lb/ton)] (2.1) = 2.02 lb/hr**

11. Pollutant Potential Emissions Comment (limit to 200 characters):
**Magnet Transfer Point – subject to 40 CFR 60, subpart 000 rules and regulations.**

**Allowable Emissions** Allowable Emissions _____ of _____

| | |
|---|---|
| 1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000** | 2. Future Effective Date of Allowable Emissions: **Initial Compliance Test** |
| 3. Requested Allowable Emissions and Units: **< 10 % Opacity** | 4. Equivalent Allowable Emissions:<br>lb/hour tons/year |
| 5. Method of Compliance (limit to 60 characters):<br>**Initial and Annual EPA Method 9 Compliance Testing** | |
| 6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): | |

## E. VISIBLE EMISSIONS INFORMATION
**(Only Emissions Units Subject to a VE Limitation)**

**Visible Emissions Limitation:** Visible Emissions Limitation _____ of _____

| | |
|---|---|
| 1. Visible Emissions Subtype: **VE** | 2. Basis for Allowable Opacity:<br>[X] Rule [ ] Other |
| 3. Requested Allowable Opacity:<br>Normal Conditions: **<10%** Exceptional Conditions: **<10%**<br>Maximum Period of Excess Opacity Allowed: **0** min/hour | |
| 4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.** | |
| 5. Visible Emissions Comment (limit to 200 characters): | |

## F. CONTINUOUS MONITOR INFORMATION
**(Only Emissions Units Subject to Continuous Monitoring)**

**Continuous Monitoring System:** Continuous Monitor _____ of _____

| | |
|---|---|
| 1. Parameter Code:<br>**NONE** | 2. Pollutant(s): |
| 3. CMS Requirement: | [ ] Rule [ ] Other |
| 4. Monitor Information:<br>Manufacturer:<br>Model Number: Serial Number: | |
| 5. Installation Date: | 6. Performance Specification Test Date: |
| 7. Continuous Monitor Comment (limit to 200 characters): | |

## G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

**Supplemental Requirements**

1. Process Flow Diagram
   [X ] Attached, Document ID:__**III**____[ ] Not Applicable [ ] Waiver Requested

2. Fuel Analysis or Specification
   [ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested

3. Detailed Description of Control Equipment
   [ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested
   ***On file at FDEP's Office***

4. Description of Stack Sampling Facilities
   [ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested

5. Compliance Test Report
   [X ] Attached, Document ID:__**IV**_____
   [X ] Previously submitted, Date:____***03/2000***_____
   [ ] Not Applicable

6. Procedures for Startup and Shutdown
   [ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested

7. Operation and Maintenance Plan
   [ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested
   ***On file at FDEP's Office***

8. Supplemental Information for Construction Permit Application
   [ ] Attached, Document ID:____ [ ] Not Applicable
   ***On file at FDEP's Office***

9. Other Information Required by Rule or Statute
   [ ] Attached, Document ID:_____ [X ] Not Applicable

10. Supplemental Requirements Comment:

# EMISSIONS ID. NO. 006

## Emissions From Radial Stacker Belt

## III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

## A. GENERAL EMISSIONS UNIT INFORMATION

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

**Drop Point from Radial Stacker No.1 to Stockpile – where crushed material leaves radial stacker belt to stockpile**

3. Emissions Unit Identification Number: [ ] No ID
ID: **006**

| 37. Emissions Unit Status Code: | 38. Initial Startup Date: | 39. Emissions Unit Major Group SIC Code: |
|---|---|---|
| **ACTIVE** | **UNKNOWN** | **14** |

40. Emissions Unit Comment: (Limit to 500 Characters):

**CRUSHED RECLAIMED ASPHALT & CONCRETE WILL TRAVEL ALONG THE RADIAL STACKER BELT TO BE STOCKPILED FOR FUTURE USE AT CONSTRUCTION SITES. THE ENTIRE AGGREGATE PROCESSING UNIT WILL CRUSH AND AND CONVEY RECLAIMED ASPHALT & CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY OCCUR THE MATERIAL WILL BE SPRAYED AS TO CONTROL ANY EMISSIONS GENERATED.**

**Emissions Unit Control Equipment**

| |
|---|
| 24. Control Equipment/Method Description (limit to 200 characters per device or method):<br><br>**ANY EMISSIONS THAT MAY BE GENERATED UNIT ARE CONTROLLED AT THIS FACILITY BY DAMPENING MATERIAL BEFORE IT ENTERS THE RECEIVING HOPPER AS NEEDED TO CONTROL GENERATION OF FUGITIVES** |
| 2. Control Device or Method Code(s): **061,099** |

**Emissions Unit Details**

| | | |
|---|---|---|
| 1. Package Unit: **RADIAL STACKER BELT**<br>Manufacturer: **SELF FABRICATED** | Model Number: **NA** | |
| 2. Generator Nameplate Rating: | MW | |
| 3. Incinerator Information:<br>Dwell Temperature:<br>Dwell Time:<br>Incinerator Afterburner Temperature: | | °F<br>seconds<br>°F |

**Emissions Unit Operating Capacity and Schedule**

| | | |
|---|---|---|
| 1. Maximum Heat Input Rate: | | mmBtu/hr |
| 2. Maximum Incineration Rate: | lb/hr | tons/day |
| 3. Maximum Process or Throughput Rate: **200 TPH AS RAW (UNCRUSHED) RECLAIMED ASPHALT OR CONCRETE** | | |
| 4. Maximum Production Rate: **200 TPH AS RECLAIMED CRUSHED AND SCREENED ASPHALT (RAP) OR CONCRETE** | | |
| 5. Requested Maximum Operating Schedule: | | |
| **10** hours/day | | **6** days/week |
| **52** weeks/year | | **3120** hours/year |

41. Operating Capacity/Schedule Comment (limit to 200 characters):

**Dampened, uncrushed reclaimed asphalt material is fed into the crusher from the receiving hopper and grizzly feeder of the plant where it is crushed and discharged to the discharge pan where it fall onto a conveyor belt from there it is conveyed to a stockpile for future use at one of the asphalt plants. Any fugitive emissions generated are controlled by dampening of the material before it enters the grizzly feeder and crusher as needed.**

**Emissions Unit Information Section __6___ of __10___**
**Radial Stacker Belt No.1 – Drop Point**

## B. EMISSION POINT (STACK/VENT) INFORMATION

**Emission Point Description and Type**

| | |
|---|---|
| 1. Identification of Point on Plot Plan or Flow Diagram? **006 (Radial Stacker)** | 25. Emission Point Type Code: **4** |

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):
**NONE**

26. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
**NONE**

| | | |
|---|---|---|
| 27. Discharge Type Code: **F** | 6. Stack Height: feet | 7. Exit Diameter: feet |
| 8. Exit Temperature: °F | 9. Actual Volumetric Flow Rate: acfm | 10. Water Vapor: % |

| | |
|---|---|
| 11. Maximum Dry Standard Flow Rate: dscfm | 12. Nonstack Emission Point Height: **~2-15** FEET |

13. Emission Point UTM Coordinates: **(portable facility – figure below at location now)**
Zone: **17** East (km): **357.8** North (km): **3107.2**

14. Emission Point Comment (limit to 200 characters):

**EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL**

**Emissions Unit Information Section __6___ of __10___**
**Radial Stacker Belt No.1 – Drop Point**

## C. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type) (limit to 500 characters): | | |
|---|---|---|
| **Cedarapids – Radial Stacker Belt to Stockpile (Material Handling – Emissions related to conveying and dropping of material.)** | | |
| 7. Source Classification Code (SCC): **30502511** | 3. SCC Units: **TONS OF PRODUCT PROCESSED** | |
| 4. Maximum Hourly Rate: **200 tph** | 28. Maximum Annual Rate: **624,000 ton** | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: **NA** | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type ) (limit to 500 characters): | | |
|---|---|---|
| | | |
| 2. Source Classification Code (SCC): | 3. SCC Units: | |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

**EMISSIONS UNIT NO. 6 of 10**
**RADIAL STACKER BELT No.1 – Drop Point**

## D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

**Potential Emissions**

| | | |
|---|---|---|
| 1. Pollutant Emitted: **PM, PM10** | 2. Pollutant Regulatory Code: **WP** | |
| 3. Primary Control Device Code: **061** | 4. Secondary Control Device Code: **099** | 5. Total Percent Efficiency of Control: **80%** |
| 6. Potential Emissions: **PM10 = 0.96 lb/hr & 1.50 ton/hr**<br>**PM = 2.02 lb/hr & 3.14 ton/hr** | | 7. Synthetically Limited? [ X ] |
| 8. Emission Factor: **0.0048 lb/ton**<br>Reference: **AP-42 (Table 11.19.2-2 controlled) and footnote © for PM Emissions** | | 42. Emissions Method Code: **3** |

10. Calculation of Emissions (limit to 600 characters):

**PM10 = (200 lb/ton)(0.0048 lb/ton) = 0.96 lb/hr**
**$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0048 lb/ton)] / 2000 lb/ton = 1.50 ton/yr**

**PM = [(200 lb/ton)(0.0048 lb/ton)] (2.1) = 2.02 lb/hr**

**$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0048 lb/ton)] / 2000 lb/ton (2.1) = 3.14 ton/yr**

11. Pollutant Potential Emissions Comment (limit to 200 characters):
**Radial Stacker Belt – subject to 40 CFR 60, subpart 000 rules and regulations.**

**Allowable Emissions** Allowable Emissions _____ of _____

| | |
|---|---|
| 1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000** | 2. Future Effective Date of Allowable Emissions: **Initial Compliance Test** |
| 3. Requested Allowable Emissions and Units: **< 10 % Opacity** | 4. Equivalent Allowable Emissions:<br>lb/hour tons/year |

5. Method of Compliance (limit to 60 characters):
**Initial and Annual EPA Method 9 Compliance Testing**

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

**EMISSIONS UNIT NO. 6 of 10**
**RADIAL STACKER BELT No.1 – Drop Point**

## E. VISIBLE EMISSIONS INFORMATION
**(Only Emissions Units Subject to a VE Limitation)**

**Visible Emissions Limitation:** Visible Emissions Limitation _____ of _____

| | |
|---|---|
| 1. Visible Emissions Subtype: **VE** | 2. Basis for Allowable Opacity:<br>[X] Rule [ ] Other |
| 3. Requested Allowable Opacity:<br>Normal Conditions: **<10%** Exceptional Conditions: **<10%**<br>Maximum Period of Excess Opacity Allowed: **0** min/hour | |
| 4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.** | |
| 5. Visible Emissions Comment (limit to 200 characters): | |

## F. CONTINUOUS MONITOR INFORMATION
**(Only Emissions Units Subject to Continuous Monitoring)**

**Continuous Monitoring System:** Continuous Monitor _____ of _____

| | |
|---|---|
| 1. Parameter Code:<br>**NONE** | 2. Pollutant(s): |
| 3. CMS Requirement: | [ ] Rule [ ] Other |
| 4. Monitor Information:<br>Manufacturer:<br>Model Number: Serial Number: | |
| 5. Installation Date: | 6. Performance Specification Test Date: |
| 7. Continuous Monitor Comment (limit to 200 characters): | |

**EMISSIONS UNIT NO. 6 of 10**
**RADIAL STACKER BELT No.1 – Drop Point**

## G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

**Supplemental Requirements**

| |
|---|
| 1. Process Flow Diagram<br>[X ] Attached, Document ID: **III** [ ] Not Applicable [ ] Waiver Requested |
| 2. Fuel Analysis or Specification<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 3. Detailed Description of Control Equipment<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested<br>***On file at FDEP's Office*** |
| 4. Description of Stack Sampling Facilities<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 5. Compliance Test Report<br>[X ] Attached, Document ID: **IV**<br>[X ] Previously submitted, Date: ***03/2000***<br>[ ] Not Applicable |
| 6. Procedures for Startup and Shutdown<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 7. Operation and Maintenance Plan<br>[] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested<br>*On file at FDEP's Office* |
| 8. Supplemental Information for Construction Permit Application<br>[ ] Attached, Document ID:_____ [ ] Not Applicable<br>***On file at FDEP's Office*** |
| 9. Other Information Required by Rule or Statute<br>[ ] Attached, Document ID:_____ [X ] Not Applicable |
| 10. Supplemental Requirements Comment: |

# EMISSIONS ID. NO. 007

# Emissions From Radial Stacker Belt No.2

## III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

## A. GENERAL EMISSIONS UNIT INFORMATION

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

**Drop Point from Radial Stacker No.2 to Stockpile – where crushed material leaves radial stacker belt to stockpile**

3. Emissions Unit Identification Number: [ ] No ID
ID: **007**

| 43. Emissions Unit Status Code: | 44. Initial Startup Date: | 45. Emissions Unit Major Group SIC Code: |
|---|---|---|
| **ACTIVE** | **UNKNOWN** | **14** |

46. Emissions Unit Comment: (Limit to 500 Characters):

**CRUSHED RECLAIMED ASPHALT & CONCRETE WILL TRAVEL ALONG THE RADIAL STACKER BELT TO BE STOCKPILED FOR FUTURE USE AT CONSTRUCTION SITES. THE ENTIRE AGGREGATE PROCESSING UNIT WILL CRUSH AND AND CONVEY RECLAIMED ASPHALT & CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY OCCUR THE MATERIAL WILL BE SPRAYED AS TO CONTROL ANY EMISSIONS GENERATED.**

**Emissions Unit Control Equipment**

| |
|---|
| 29. Control Equipment/Method Description (limit to 200 characters per device or method):<br><br>**ANY EMISSIONS THAT MAY BE GENERATED UNIT ARE CONTROLLED AT THIS FACILITY BY DAMPENING MATERIAL BEFORE IT ENTERS THE RECEIVING HOPPER AS NEEDED TO CONTROL GENERATION OF FUGITIVES** |
| 2. Control Device or Method Code(s): **061,099** |

**Emissions Unit Details**

| | | |
|---|---|---|
| 1. Package Unit: **RADIAL STACKER BELT**<br>Manufacturer: **SELF FABRICATED** | Model Number: **NA** | |
| 2. Generator Nameplate Rating: | MW | |
| 3. Incinerator Information:<br>Dwell Temperature:<br>Dwell Time:<br>Incinerator Afterburner Temperature: | | °F<br>seconds<br>°F |

**Emissions Unit Operating Capacity and Schedule**

| | | |
|---|---|---|
| 1. Maximum Heat Input Rate: | | mmBtu/hr |
| 2. Maximum Incineration Rate: | lb/hr | tons/day |
| 3. Maximum Process or Throughput Rate: **200 TPH AS RAW (UNCRUSHED) RECLAIMED ASPHALT OR CONCRETE** | | |
| 4. Maximum Production Rate: **200 TPH AS RECLAIMED CRUSHED AND SCREENED ASPHALT (RAP) OR CONCRETE** | | |
| 5. Requested Maximum Operating Schedule: | | |
| **10** hours/day | | **6** days/week |
| **52** weeks/year | | **3120** hours/year |

47. Operating Capacity/Schedule Comment (limit to 200 characters):

**Dampened, uncrushed reclaimed asphalt material is fed into the crusher from the receiving hopper and grizzly feeder of the plant where it is crushed and discharged to the discharge pan where it fall onto a conveyor belt from there it is conveyed to a stockpile for future use at one of the asphalt plants. Any fugitive emissions generated are controlled by dampening of the material before it enters the grizzly feeder and crusher as needed.**

**Emissions Unit Information Section __7___ of __10___**
**Radial Stacker Belt No.2 – Drop Point**

## B. EMISSION POINT (STACK/VENT) INFORMATION

**Emission Point Description and Type**

| | |
|---|---|
| 1. Identification of Point on Plot Plan or Flow Diagram? **007 (Radial Stacker)** | 30. Emission Point Type Code: **4** |

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):
**NONE**

31. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
**NONE**

| | | |
|---|---|---|
| 32. Discharge Type Code: **F** | 6. Stack Height: feet | 7. Exit Diameter: feet |
| 8. Exit Temperature: °F | 9. Actual Volumetric Flow Rate: acfm | 10. Water Vapor: % |

| | |
|---|---|
| 11. Maximum Dry Standard Flow Rate: dscfm | 12. Nonstack Emission Point Height: **~2-15** FEET |

13. Emission Point UTM Coordinates: **(portable facility – figure below at location now)**
Zone: **17** East (km): **357.8** North (km): **3107.2**

14. Emission Point Comment (limit to 200 characters):
**EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL**

## C. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type) (limit to 500 characters): | | |
|---|---|---|
| **Cedarapids – Radial Stacker Belt to Stockpile (Material Handling – Emissions related to conveying and dropping of material.)** | | |
| 8. Source Classification Code (SCC): **30502511** | 3. SCC Units: **TONS OF PRODUCT PROCESSED** | |
| 4. Maximum Hourly Rate: **200 tph** | 33. Maximum Annual Rate: **624,000 ton** | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: **NA** | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type ) (limit to 500 characters): | | |
|---|---|---|
| | | |
| 2. Source Classification Code (SCC): | 3. SCC Units: | |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

**EMISSIONS UNIT NO. 7 of 10**
**RADIAL STACKER BELT No.2 – Drop Point**

## D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

**Potential Emissions**

| | | |
|---|---|---|
| 1. Pollutant Emitted: **PM, PM10** | 2. Pollutant Regulatory Code: **WP** | |
| 3. Primary Control Device Code: **061** | 4. Secondary Control Device Code: **099** | 5. Total Percent Efficiency of Control: **80%** |
| 6. Potential Emissions: **PM10 = 0.96 lb/hr & 1.50 ton/hr**<br>**PM = 2.02 lb/hr & 3.14 ton/hr** | | 7. Synthetically Limited? [ X ] |
| 8. Emission Factor: **0.0048 lb/ton**<br>Reference: **AP-42 (Table 11.19.2-2 controlled) and footnote © for PM Emissions** | | 48. Emissions Method Code: **3** |

10. Calculation of Emissions (limit to 600 characters):

**PM10 = (200 lb/ton)(0.0048 lb/ton) = 0.96 lb/hr**
**$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0048 lb/ton)] / 2000 lb/ton = 1.50 ton/yr**

**PM = [(200 lb/ton)(0.0048 lb/ton)] (2.1) = 2.02 lb/hr**

**$PM10_{yearly}$ [(200 lb/hr)(3120 hr/yr)(0.0048 lb/ton)] / 2000 lb/ton (2.1) = 3.14 ton/yr**

11. Pollutant Potential Emissions Comment (limit to 200 characters):
**Radial Stacker Belt – subject to 40 CFR 60, subpart 000 rules and regulations.**

**Allowable Emissions** Allowable Emissions _____ of _____

| | |
|---|---|
| 1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000** | 2. Future Effective Date of Allowable Emissions: **Initial Compliance Test** |
| 3. Requested Allowable Emissions and Units: **< 10 % Opacity** | 4. Equivalent Allowable Emissions:<br>lb/hour tons/year |
| 5. Method of Compliance (limit to 60 characters):<br>**Initial and Annual EPA Method 9 Compliance Testing** | |
| 6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): | |

**EMISSIONS UNIT NO. 7 of 10**
**RADIAL STACKER BELT No.2 – Drop Point**

## E. VISIBLE EMISSIONS INFORMATION
**(Only Emissions Units Subject to a VE Limitation)**

**Visible Emissions Limitation:** Visible Emissions Limitation _____ of _____

| | |
|---|---|
| 1. Visible Emissions Subtype: **VE** | 2. Basis for Allowable Opacity:<br>[X] Rule [ ] Other |
| 3. Requested Allowable Opacity:<br>Normal Conditions: **<10%** Exceptional Conditions: **<10%**<br>Maximum Period of Excess Opacity Allowed: **0** min/hour | |
| 4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.** | |
| 5. Visible Emissions Comment (limit to 200 characters): | |

## F. CONTINUOUS MONITOR INFORMATION
**(Only Emissions Units Subject to Continuous Monitoring)**

**Continuous Monitoring System:** Continuous Monitor _____ of _____

| | |
|---|---|
| 1. Parameter Code:<br>**NONE** | 2. Pollutant(s): |
| 3. CMS Requirement: | [ ] Rule [ ] Other |
| 4. Monitor Information:<br>Manufacturer:<br>Model Number: Serial Number: | |
| 5. Installation Date: | 6. Performance Specification Test Date: |
| 7. Continuous Monitor Comment (limit to 200 characters): | |

**EMISSIONS UNIT NO. 7 of 10**
**RADIAL STACKER BELT No.2 – Drop Point**

## G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

**Supplemental Requirements**

| |
|---|
| 1. Process Flow Diagram<br>[X ] Attached, Document ID: **III** [ ] Not Applicable [ ] Waiver Requested |
| 2. Fuel Analysis or Specification<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 3. Detailed Description of Control Equipment<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested<br>***On file at FDEP's Office*** |
| 4. Description of Stack Sampling Facilities<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 5. Compliance Test Report<br>[X ] Attached, Document ID: **IV**<br>[X ] Previously submitted, Date: ***03/2000***<br>[ ] Not Applicable |
| 6. Procedures for Startup and Shutdown<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 7. Operation and Maintenance Plan<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested<br>***On file at FDFP's Office*** |
| 8. Supplemental Information for Construction Permit Application<br>[ ] Attached, Document ID:_____ [ ] Not Applicable<br>***On file at FDEP's Office*** |
| 9. Other Information Required by Rule or Statute<br>[ ] Attached, Document ID:_____ [X ] Not Applicable |
| 10. Supplemental Requirements Comment: |

# EMISSIONS ID. NO. 008

## Emissions From Caterpillar Generator Set

**EMISSIONS UNIT NO. 8 of 10**
**DIESEL GENERATOR SET**

## III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

## A. GENERAL EMISSIONS UNIT INFORMATION

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
**Caterpillar Diesel fired Generator Set used to supply electrical power to the crushing / aggregate processing plant. Generator fired on No.2 virgin diesel fuel oil with a maximum sulfur content of 0.5% by weight, ~138,000 Btu/gal and a maximum fuel consumption of 25 gal/hr.**

3. Emissions Unit Identification Number:
ID: **008**
[ ] No ID
[ ] ID Unknown

| 49. Emissions Unit Status Code: | 50. Initial Startup Date: | 51. Emissions Unit Major Group SIC Code: |
|---|---|---|
| **ACTIVE** | **UNKNOWN** | **14** |

52. Emissions Unit Comment: (Limit to 500 Characters):
**325 H.P. Caterpillar Diesel Generator – fired on No.2 virgin diesel fuel with a maximum sulfur limit of 0.5% by weight – used to power all equipment employed by this crushing/aggregate processing unit.**

**EMISSIONS UNIT NO. 8 of 10**
**DIESEL GENERATOR SET**

**Emissions Unit Control Equipment**

| |
|---|
| 34. Control Equipment/Method Description (limit to 200 characters per device or method):<br><br>**NONE** |
| 2. Control Device or Method Code(s): **NA** |

**Emissions Unit Details**

| | | |
|---|---|---|
| 1. Package Unit: **Generator Set**<br>Manufacturer: **Caterpillar Diesel** | Model Number: **325** | |
| 2. Generator Nameplate Rating: | MW | |
| 3. Incinerator Information:<br>Dwell Temperature:<br>Dwell Time:<br>Incinerator Afterburner Temperature: | | °F<br>seconds<br>°F |

**Emissions Unit Operating Capacity and Schedule**

| | | |
|---|---|---|
| 1. Maximum Heat Input Rate: **6.21** mmBtu/hr | | |
| 2. Maximum Incineration Rate: | lb/hr | tons/day |
| 3. Maximum Process or Throughput Rate: **Consumes No.2 fuel oil at a maximum rate of 25 gal/hr** | | |
| 4. Maximum Production Rate: **25 gal/hr** | | |
| 5. Requested Maximum Operating Schedule: | | |
| | **10** hours/day | **6** days/week |
| | **52** weeks/year | **3120** hours/year |

53. Operating Capacity/Schedule Comment (limit to 200 characters):

**325 H.P. Caterpillar Diesel Generator – fired on No.2 virgin diesel fuel with a maximum sulfur limit of 0.5% by weight – used to power all equipment employed by this crushing/aggregate processing unit.**

**EMISSIONS UNIT NO. 8 of 10**
**DIESEL GENERATOR SET**

## B. EMISSION POINT (STACK/VENT) INFORMATION

**Emission Point Description and Type**

| | |
|---|---|
| 1. Identification of Point on Plot Plan or Flow Diagram? **008 (Generator)** | 35. Emission Point Type Code: **4** |

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):
**NONE**

36. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
**NONE**

| | | |
|---|---|---|
| 37. Discharge Type Code: **F** | 6. Stack Height: feet | 7. Exit Diameter: feet |
| 8. Exit Temperature: °F | 9. Actual Volumetric Flow Rate: acfm | 10. Water Vapor: % |
| 11. Maximum Dry Standard Flow Rate: dscfm | 12. Nonstack Emission Point Height: **~12** FEET | |

13. Emission Point UTM Coordinates: **(portable unit at this location only)**
Zone: **17** East (km): **357.8** North (km): **3107.2**

14. Emission Point Comment (limit to 200 characters):

**EMISSIONS UNIT NO. 8 of 10**
**DIESEL GENERATOR SET**

## C. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type) (limit to 500 characters): | | |
|---|---|---|
| **Caterpillar Diesel Generator Set – Emissions from Detroit Diesel Generator fired on No.2 virgin diesel fuel with a maximum sulfur limit of 0.5% by weight.** | | |
| 9. Source Classification Code (SCC): **20222200401** | 3. SCC Units: **1000 gallons burned** | |
| 4. Maximum Hourly Rate: **25 ga/hr @ worst case** | 38. Maximum Annual Rate: **78,000 gal/yr @ max.** | 6. Estimated Annual Activity Factor: **0.50 tpy @ worst** |
| 7. Maximum % Sulfur: **0.5%** | 8. Maximum % Ash: **≤ 0.01 % by weight** | 9. Million Btu per SCC Unit: **138,000** |
| 10. Segment Comment (limit to 200 characters): | | |

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type ) (limit to 500 characters): | | |
|---|---|---|
| | | |
| 2. Source Classification Code (SCC): | 3. SCC Units: | |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

**EMISSIONS UNIT NO. 8 of 10**
**DIESEL GENERATOR SET**

## D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

**Potential Emissions** **Pollutant 1 of 5**

| | | |
|---|---|---|
| 1. Pollutant Emitted: **PM10** | | 2. Pollutant Regulatory Code: **WP** |
| 3. Primary Control Device Code: | 4. Secondary Control Device Code: **NONE** | 5. Total Percent Efficiency of Control: **0%** |
| 6. Potential Emissions: : **PM10 = 1.07 lb/hr or 1.67 ton/yr** | | 7. Synthetically Limited? [ **X** ] |
| 8. Emission Factor: **0.31 lb/MMBTU**<br>Reference: **AP-42** | | 54. Emissions Method Code: **3** |

10. Calculation of Emissions (limit to 600 characters):

**PM10 = (25 gal/hr fuel useage)(138,000 BTU/gal) = 3.45 MMBTU/hr**
**(3.45 MMBTU/hr)(0.31 lb/MMBTU) = 1.07 lb/hr**
**(1.07 lb/hr)(3120 hrs/yr) / 2000 lb/ton = 1.67 ton/hr**

11. Pollutant Potential Emissions Comment (limit to 200 characters):
**Emissions from Diesel Generator Subject to 62-296.320 FAC**

**Allowable Emissions** Allowable Emissions _____ of _____

| | |
|---|---|
| 1. Basis for Allowable Emissions Code: **40 CFR 60, subpart 000** | 2. Future Effective Date of Allowable Emissions: **Initial Compliance Test** |
| 3. Requested Allowable Emissions and Units: **< 10 % Opacity** | 4. Equivalent Allowable Emissions: lb/hour tons/year |

5. Method of Compliance (limit to 60 characters):
**Initial and Annual EPA Method 9 Compliance Testing**

6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):

**EMISSIONS UNIT NO. 8 of 10**
**DIESEL GENERATOR SET**

## D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

**Potential Emissions** **Pollutant 2 of 5**

| | | |
|---|---|---|
| 1. Pollutant Emitted: **NOx** | | 2. Pollutant Regulatory Code: **WP** |
| 3. Primary Control Device Code: | 4. Secondary Control Device Code: **NONE** | 5. Total Percent Efficiency of Control: **0%** |
| 6. Potential Emissions: : **NOx = 15.21 lb/hr or 23.73 ton/yr** | | 7. Synthetically Limited? [ **X** ] |
| 8. Emission Factor: **4.41 lb/MMBTU**<br>Reference: **AP-42** | | 55. Emissions Method Code: **3** |

10. Calculation of Emissions (limit to 600 characters):

**NOx = (25 gal/hr fuel useage)(138,000 BTU/gal) = 3.45 MMBTU/hr**
**(3.45 MMBTU/hr)(4.41 lb/MMBTU) = 15.21 lb/hr**
**(15.21 lb/hr)(3120 hrs/yr) / 2000 lb/ton = 23.73 ton/yr**

11. Pollutant Potential Emissions Comment (limit to 200 characters):
**Emissions from Diesel Generator Subject to 62-296.320 FAC**

**Allowable Emissions** Allowable Emissions _____ of _____

| | |
|---|---|
| 1. Basis for Allowable Emissions Code: **62-296.320 of FAC** | 2. Future Effective Date of Allowable Emissions: **Initial Compliance Test** |
| 3. Requested Allowable Emissions and Units: **< 10 % Opacity** | 4. Equivalent Allowable Emissions: lb/hour tons/year |

5. Method of Compliance (limit to 60 characters):
**Initial and Annual EPA Method 9 Compliance Testing**

6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):

**EMISSIONS UNIT NO. 8 of 10**
**DIESEL GENERATOR SET**

## D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

**Potential Emissions** **Pollutant 3 of 5**

| | | |
|---|---|---|
| 1. Pollutant Emitted: **CO** | | 2. Pollutant Regulatory Code: **WP** |
| 3. Primary Control Device Code: | 4. Secondary Control Device Code: **NONE** | 5. Total Percent Efficiency of Control: **0%** |
| 6. Potential Emissions: : **CO = 3.28 lb/hr or 5.12 ton/yr** | | 7. Synthetically Limited? [ **X** ] |
| 8. Emission Factor: **0.95 lb/MMBTU**<br>Reference: **AP-42** | | 56. Emissions Method Code: **3** |

10. Calculation of Emissions (limit to 600 characters):

**CO = (25 gal/hr fuel useage)(138,000 BTU/gal) = 3.45 MMBTU/hr**
**(3.45 MMBTU/hr)(0.95 lb/MMBTU) = 3.28 lb/hr**
**(3.28 lb/hr)(3120 hrs/yr) / 2000 lb/ton = 5.12 ton/hr**

11. Pollutant Potential Emissions Comment (limit to 200 characters):
**Emissions from Diesel Generator Subject to 62-296.320 FAC**

**Allowable Emissions** Allowable Emissions _____ of _____

| | |
|---|---|
| 1. Basis for Allowable Emissions Code: **62-296.320 FAC** | 2. Future Effective Date of Allowable Emissions: **Initial Compliance Test** |
| 3. Requested Allowable Emissions and Units: **< 20% Opacity** | 4. Equivalent Allowable Emissions: lb/hour tons/year |

5. Method of Compliance (limit to 60 characters):
**Initial and Annual EPA Method 9 Compliance Testing**

6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):

## D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

**Potential Emissions** **Pollutant 4 of 5**

| | | |
|---|---|---|
| 1. Pollutant Emitted: **SOx** | 2. Pollutant Regulatory Code: **WP** | |
| 3. Primary Control Device Code: | 4. Secondary Control Device Code: **NONE** | 5. Total Percent Efficiency of Control: **0%** |
| 6. Potential Emissions: : **SOx = 1.00 lb/hr or 1.56 ton/yr** | | 7. Synthetically Limited? [ **X** ] |
| 8. Emission Factor: **0.29 lb/MMBTU**<br>Reference: **AP-42** | | 57. Emissions Method Code: **3** |

10. Calculation of Emissions (limit to 600 characters):

**SOx = (25 gal/hr fuel useage)(138,000 BTU/gal) = 3.45 MMBTU/hr**
**(3.45 MMBTU/hr)(0.29 lb/MMBTU) = 1.00 lb/hr**
**(1.00 lb/hr)(3120 hrs/yr) / 2000 lb/ton = 1.56 ton/hr**

11. Pollutant Potential Emissions Comment (limit to 200 characters):
**Emissions from Diesel Generator Subject to 62-296.320 FAC**

**Allowable Emissions** Allowable Emissions _____ of _____

| | |
|---|---|
| 1. Basis for Allowable Emissions Code: **62-296.320 FAC** | 2. Future Effective Date of Allowable Emissions: **Initial Compliance Test** |
| 3. Requested Allowable Emissions and Units: **< 20% Opacity** | 4. Equivalent Allowable Emissions:<br>lb/hour tons/year |

5. Method of Compliance (limit to 60 characters):
**Initial and Annual EPA Method 9 Compliance Testing**

6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):

**EMISSIONS UNIT NO. 8 of 10**
**DIESEL GENERATOR SET**

## D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

**Potential Emissions** **Pollutant 5 of 5**

| | | |
|---|---|---|
| 1. Pollutant Emitted: **TOC** | | 2. Pollutant Regulatory Code: **WP** |
| 3. Primary Control Device Code: | 4. Secondary Control Device Code: **NONE** | 5. Total Percent Efficiency of Control: **0%** |
| 6. Potential Emissions: : **TOC = 1.24 lb/hr or 1.93 ton/yr** | | 7. Synthetically Limited? [ **X** ] |
| 8. Emission Factor: **0.36 lb/MMBTU**<br>Reference: **AP-42** | | 58. Emissions Method Code: **3** |

10. Calculation of Emissions (limit to 600 characters):

**TOC = (25 gal/hr fuel useage)(138,000 BTU/gal) = 3.45 MMBTU/hr**
**(3.45 MMBTU/hr)(0.36 lb/MMBTU) = 1.24 lb/hr**
**(1.24 lb/hr)(3120 hrs/yr) / 2000 lb/ton = 1.93 ton/hr**

11. Pollutant Potential Emissions Comment (limit to 200 characters):
**Emissions from Diesel Generator Subject to 62-296.320 FAC**

**Allowable Emissions** Allowable Emissions _____ of _____

| | |
|---|---|
| 1. Basis for Allowable Emissions Code: **62-296.320 FAC** | 2. Future Effective Date of Allowable Emissions: **Initial Compliance Test** |
| 3. Requested Allowable Emissions and Units: **< 20% Opacity** | 4. Equivalent Allowable Emissions:<br>lb/hour tons/year |

5. Method of Compliance (limit to 60 characters):
**Initial and Annual EPA Method 9 Compliance Testing**

6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):

**EMISSIONS UNIT NO. 8 of 10**
**DIESEL GENERATOR SET**

## E. VISIBLE EMISSIONS INFORMATION
## (Only Emissions Units Subject to a VE Limitation)

**Visible Emissions Limitation:** Visible Emissions Limitation _____ of _____

| | |
|---|---|
| 1. Visible Emissions Subtype: **VE** | 2. Basis for Allowable Opacity:<br>[X] Rule [ ] Other |
| 3. Requested Allowable Opacity:<br>Normal Conditions: **<20%** Exceptional Conditions: **<10%**<br>Maximum Period of Excess Opacity Allowed: **0** min/hour | |
| 4. Method of Compliance: **Initial and Annual Visible Emissions Compliance Testing.** | |
| 5. Visible Emissions Comment (limit to 200 characters):<br>**Visible Emissions from Diesel Generator are subject to 62-296.320 FAC** | |

## F. CONTINUOUS MONITOR INFORMATION
## (Only Emissions Units Subject to Continuous Monitoring)

**Continuous Monitoring System:** Continuous Monitor _____ of _____

| | |
|---|---|
| 1. Parameter Code:<br>**NONE** | 2. Pollutant(s): |
| 3. CMS Requirement: | [ ] Rule [ ] Other |
| 4. Monitor Information:<br>Manufacturer:<br>Model Number: Serial Number: | |
| 5. Installation Date: | 6. Performance Specification Test Date: |
| 7. Continuous Monitor Comment (limit to 200 characters): | |

**EMISSIONS UNIT NO. 8 of 10**
**DIESEL GENERATOR SET**

## G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

**Supplemental Requirements**

| |
|---|
| 1. Process Flow Diagram<br>[X ] Attached, Document ID: **III** [ ] Not Applicable [ ] Waiver Requested |
| 2. Fuel Analysis or Specification<br>[ ] Attached, Document ID:_____ [ X] Not Applicable [ ] Waiver Requested<br>**can be found in supplemental secttion of application** |
| 3. Detailed Description of Control Equipment<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested<br>***On file at FDEP's Office*** |
| 4. Description of Stack Sampling Facilities<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 5. Compliance Test Report<br>[X ] Attached, Document ID: **IV**<br>[X ] Previously submitted, Date: ***03/2000***<br>[ ] Not Applicable |
| 6. Procedures for Startup and Shutdown<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 7. Operation and Maintenance Plan<br>[] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested<br>***On file at FDEP's Office*** |
| 8. Supplemental Information for Construction Permit Application<br>[ ] Attached, Document ID:_____ [ ] Not Applicable<br>***On file at FDEP's Office*** |
| 9. Other Information Required by Rule or Statute<br>[ ] Attached, Document ID:_____ [X ] Not Applicable |
| 10. Supplemental Requirements Comment: |

# EMISSIONS ID. NO. 009

## Emissions From Paved / Unpaved Roads

## III. EMISSIONS UNIT INFORMATION

### *FUGITIVE EMISSIONS FROM PAVED & UNPAVED AREAS*

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

## A. GENERAL EMISSIONS UNIT INFORMATION

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Fugitive emissions from paved and unpaved areas – worst case scenario. All paved and unpaved areas and aggregate piles at this facility as well as other locations will be kept damp on a as needed basis.

3. Emissions Unit Identification Number:
ID: **004**
[ ] No ID
[ ] ID Unknown

| 1. Emissions Unit Status Code: | 2. Initial Startup Date: | 3. Emissions Unit Major Group SIC Code: |
|---|---|---|
| **NA** | **ASAP** | **2951** |

4. Emissions Unit Comment: (Limit to 500 Characters):
***Fugitive emissions from paved and unpaved areas – worst case scenario. All paved and unpaved areas and aggregate piles at this facility and other locations will be kept damp on a as needed basis.***

## Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):

   **All unpaved roadways at this facility and other locations are and will be kept damp by water truck and sprlinker system on a as needed basis. Vehicular traffic speed will be posted and enforced at a maximum of 5 m.p.h. at all locations.**

2. Control Device or Method Code(s): **099**

## Emissions Unit Details

1. Package Unit: **NA**
   Manufacturer: Model Number:
2. Generator Nameplate Rating: MW
3. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

## Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate:
4. Maximum Production Rate:
5. Requested Maximum Operating Schedule:

   **24 hours/day** **7 days/week**

   **52 weeks/year** ***not to exceeed: 4000*** **hrs/year**

6. Operating Capacity/Schedule Comment (limit to 200 characters):
   **Vehicular traffic at this facility will not be continuous 24 hrs/day**

## B. EMISSION POINT (STACK/VENT) INFORMATION

**Emission Point Description and Type**

| | | |
|---|---|---|
| 1. Identification of Point on Plot Plan or Flow Diagram? **004 – Unpaved/Paved Areas** | 2. Emission Point Type Code: **4** | |
| 3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **NA – Fugitive Emission Point** | | |
| 3. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NOT APPLICABLE** | | |
| 4. Discharge Type Code: **F** | 6. Stack Height: **~0.0** feet | 7. Exit Diameter: **Not Determinable** feet |
| 8. Exit Temperature: **~Ambient** °F | 9. Actual Volumetric Flow Rate: **Unknown** | 10. Water Vapor: **~5** % |
| 11. Maximum Dry Standard Flow Rate: dscfm | 12. Nonstack Emission Point Height: feet | |
| 13. Emission Point UTM Coordinates: **(@ present location, other locations UTM not determined as of yet.)** Zone: **17** East (km): **357.8 E** North (km): **3107.2 N** | | |
| 14. Emission Point Comment (limit to 200 characters): **This emission point subject to 62-296.310 FAC Rules and Regulations.** | | |

## C. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment __1__ of __2__

| 1. Segment Description (Process/Fuel Type) (limit to 500 characters): | | |
|---|---|---|
| **Fugitive emissions from paved, unpaved roads and stockpiles (Material Handling) emissions related to silt content on roadways and vehicular traffic in facility. Worst case scenario.** | | |
| 2. Source Classification Code (SCC): **3050204** | 3. SCC Units: **Vehicle Miles Traveled** | |
| 4. Maximum Hourly Rate: **NA** | 5. Maximum Annual Rate: **NA** | 6. Estimated Annual Activity Factor: **NA** |
| 6. Maximum % Sulfur: **NA** | 7. Maximum % Ash: **NA** | 8. Million Btu per SCC Unit: **NA** |
| 10. Segment Comment (limit to 200 characters): **FUGITIVE EMISSIONS CALCULATED AT WORST CASE SCENARIO** | | |

**Segment Description and Rate:** Segment _____ of _____

| 1. Segment Description (Process/Fuel Type ) (limit to 500 characters): | | |
|---|---|---|
| | | |
| 2. Source Classification Code (SCC): | 3. SCC Units: | |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

## D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

**Potential Emissions**

| | | |
|---|---|---|
| 1. Pollutant Emitted: **PM10, TSP** | 2. Pollutant Regulatory Code: **EL** | |
| 3. Primary Control Device Code: **099** | 4. Secondary Control Device Code: | 5. Total Percent Efficiency of Control: **90.0%** |
| 6. Potential Emissions: PM10 : **1.0 lb/hr, 1.67 ton/yr**<br>TSP: **2.1** lb/hour **3.28** tons/year | | 7. Synthetically Limited?<br>[ **X** ] **YES** |
| 8. Emission Factor: **0.24 lb/VMT**<br>Reference: **AP-42 (Section 13.2.1.1) unpaved roads** | | 9. Emissions Method Code:<br>**3** |

10. Calculation of Emissions (limit to 600 characters):

$E = k(5.9)[s/12][S/30][W/3]^{0.7}[w/4]^{0.5}[365-P/365]$

$E = 0.36(5.9)[8.9/12][5/30][31.3/3]^{0.7}[10/4]^{0.5}[365-120/365] = 2.0$ lb/VMT

$E = 2.0$ lb/VMT (1-0.90 control efficiency fron water truck) $= 0.2$ lb/VMT

$E_{daily} = (0.2$ lb/VMT)(50 VMT/day) $= 10.0$ lb/day

$E_{year} = [(10.0$ lb/day) / (~12 hr/day) (4000 hr/yr) / 2000 lb/ton $= 1.67$ ton/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters):

**Allowable Emissions** Allowable Emissions ___1___ of __7____

| | |
|---|---|
| 3. Basis for Allowable Emissions Code: **RULE** | 2. Future Effective Date of Allowable Emissions: **NA** |
| 4. Requested Allowable Emissions and Units: **<10% Opacity** | 5. Equivalent Allowable Emissions:<br>PM10 = **1.0 lb/hr, 1.67 ton/hr**<br>TSP = **2.10** lb/hour, **3.28** tons/year |

5. Method of Compliance (limit to 60 characters): **Compliance will be achieved through initial and annual emissions compliance testing. Watering of roadways and stockpiles will be performed as to control fugitive emissions at all locations.**

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

## E. VISIBLE EMISSIONS INFORMATION
## (Only Emissions Units Subject to a VE Limitation)

**Visible Emissions Limitation:** Visible Emissions Limitation ___1___ of ___1___

| | |
|---|---|
| 1. Visible Emissions Subtype:<br>**VE10** | 2. Basis for Allowable Opacity:<br>[X] Rule [ ] Other |
| 3. Requested Allowable Opacity:<br>Normal Conditions: **10 %** Exceptional Conditions: **10 %**<br>Maximum Period of Excess Opacity Allowed: **NONE** min/hour | |
| 4. Method of Compliance: **EPA METHOD 9** | |
| 5. Visible Emissions Comment (limit to 200 characters):<br>**Regulated under 62-296.320** | |

## F. CONTINUOUS MONITOR INFORMATION
## (Only Emissions Units Subject to Continuous Monitoring)

**Continuous Monitoring System:** Continuous Monitor _____ of _____

| | |
|---|---|
| 1. Parameter Code: | 2. Pollutant(s): |
| 3. CMS Requirement: | [ ] Rule [ ] Other |
| 4. Monitor Information:<br>Manufacturer:<br>Model Number: Serial Number: | |
| 5. Installation Date: | 6. Performance Specification Test Date: |
| 7. Continuous Monitor Comment (limit to 200 characters):<br>**NOT APPLICABLE** | |

## G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

**Supplemental Requirements**

1. Process Flow Diagram
   [X ] Attached, Document ID: **I** [ ] Not Applicable [ ] Waiver Requested

2. Fuel Analysis or Specification
   [ ] Attached, Document ID: _____ [X ] Not Applicable [ ] Waiver Requested
   **Can be found in supplemental information section of application**

3. Detailed Description of Control Equipment
   [ ] Attached, Document ID: _____ [X ] Not Applicable [ ] Waiver Requested
   ***On file at FDEP's Office***

4. Description of Stack Sampling Facilities
   [ ] Attached, Document ID: _____ [X ] Not Applicable [ ] Waiver Requested

5. Compliance Test Report
   [X ] Attached, Document ID: **IV**
   [X ] Previously submitted, Date: ***03/2000***
   [ ] Not Applicable

6. Procedures for Startup and Shutdown
   [ ] Attached, Document ID: _____ [X ] Not Applicable [ ] Waiver Requested

7. Operation and Maintenance Plan
   [ ] Attached, Document ID: _____ [X ] Not Applicable [ ] Waiver Requested
   ***On file at FDEP's Office***

8. Supplemental Information for Construction Permit Application
   [ ] Attached, Document ID: _____ [ ] Not Applicable
   *On file at FDEP's Office*

9. Other Information Required by Rule or Statute
   [ ] Attached, Document ID: _____ [X ] Not Applicable

10. Supplemental Requirements Comment:

# EMISSIONS ID. NO. 010

## Emissions From Stock and Storage Piles

## III. EMISSIONS UNIT INFORMATION

### *FUGITIVE EMISSIONS FROM AGGREGATE STORAGE PILES*

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

## A. GENERAL EMISSIONS UNIT INFORMATION

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

6. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Fugitive emissions from paved and unpaved areas – worst case scenario. All paved and unpaved areas and aggregate piles at this facility and other locations will be kept damp on a as needed basis.

| 3. Emissions Unit Identification Number: ID: **005** | | [ ] No ID [ ] ID Unknown |
|---|---|---|
| 5. Emissions Unit Status Code: **NA** | 6. Initial Startup Date: **ASAP** | 7. Emissions Unit Major Group SIC Code: **2951** |

8. Emissions Unit Comment: (Limit to 500 Characters):

***Fugitive emissions from Aggregate Handling – worst case scenario. All aggregate piles at this facility and other locations will be kept damp on a as needed basis.***

## Emissions Unit Control Equipment

| |
|---|
| 5. Control Equipment/Method Description (limit to 200 characters per device or method):<br><br>**All aggregate stockpiles at this facility and other locations will be kept damp by water truck and sprlinker system on a as needed basis.** |
| 2. Control Device or Method Code(s): **099** |

## Emissions Unit Details

| | | |
|---|---|---|
| 1. Package Unit: **NA**<br>Manufacturer: Model Number: | | |
| 2. Generator Nameplate Rating: | MW | |
| 3. Incinerator Information:<br>Dwell Temperature:<br>Dwell Time:<br>Incinerator Afterburner Temperature: | | °F<br>seconds<br>°F |

## Emissions Unit Operating Capacity and Schedule

| | | |
|---|---|---|
| 1. Maximum Heat Input Rate: | | |
| 2. Maximum Incineration Rate: | lb/hr | tons/day |
| 3. Maximum Process or Throughput Rate: | | |
| 4. Maximum Production Rate: | | |
| 7. Requested Maximum Operating Schedule:<br>**24 hours/day** **7 days/week**<br>**52 weeks/year** ***not to exceeed: 4000*** **hrs/year** | | |
| 8. Operating Capacity/Schedule Comment (limit to 200 characters):<br>**Aggregate Handling at this facility will not be continuous 24 hrs/day** | | |

## B. EMISSION POINT (STACK/VENT) INFORMATION

**Emission Point Description and Type**

| | | |
|---|---|---|
| 1. Identification of Point on Plot Plan or Flow Diagram? **005 – Conveyor Drops, Loader Operations** | | 6. Emission Point Type Code: **4** |
| 3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **NA – Fugitive Emission Point** | | |
| 7. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **NOT APPLICABLE** | | |
| 8. Discharge Type Code: **F** | 6. Stack Height: **~ 0.0** feet | 7. Exit Diameter: **Not Determinable** feet |
| 8. Exit Temperature: **~Ambient** °F | 9. Actual Volumetric Flow Rate: **Unknown** | 10. Water Vapor: **~5 %** |
| 11. Maximum Dry Standard Flow Rate: dscfm | | 12. Nonstack Emission Point Height: feet |
| 13. Emission Point UTM Coordinates: **(@ present location. UTM's for other locations have not been determined as of yet)** Zone: **17** East (km): **362.2 E** North (km): **3004.0 N** | | |
| 14. Emission Point Comment (limit to 200 characters): **This emission point subject to 62-296.310 FAC Rules and Regulations.** | | |

## C. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment ___1__ of __2___

| | | |
|---|---|---|
| 1. Segment Description (Process/Fuel Type) (limit to 500 characters):<br>**Fugitive emissions from aggregate stockpiles and conveyor belts (Material Handling) emissions related to fugitives from conveyor belt drops and from aggregate storage piles from prevailing winds.** | | |
| 12. Source Classification Code (SCC):<br>**3050207, 3050205** | 13. SCC Units:<br>**Area of stockpiles / tons of products** | |
| 14. Maximum Hourly Rate:<br>**NA** | 15. Maximum Annual Rate:<br>**NA** | 6. Estimated Annual Activity Factor: **NA** |
| 16. Maximum % Sulfur:<br>**NA** | 17. Maximum % Ash:<br>**NA** | 18. Million Btu per SCC Unit:<br>**NA** |
| 10. Segment Comment (limit to 200 characters):<br>**FUGITIVE EMISSIONS CALCULATED AT WORST CASE SCENARIO** | | |

**Segment Description and Rate:** Segment _____ of _____

| | | |
|---|---|---|
| 1. Segment Description (Process/Fuel Type ) (limit to 500 characters): | | |
| 2. Source Classification Code (SCC): | 3. SCC Units: | |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment (limit to 200 characters): | | |

## D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

**Potential Emissions**

| | | |
|---|---|---|
| 1. Pollutant Emitted: **PM10, TSP** | 2. Pollutant Regulatory Code: **EL** | |
| 3. Primary Control Device Code: **099** | 4. Secondary Control Device Code: | 5. Total Percent Efficiency of Control: **90.0%** |
| 6. Potential Emissions: PM10 : **0.20 lb/hr, 0.41 ton/yr**<br>TSP = **0.42 lb/hr, 0.86 ton/yr** | | 7. Synthetically Limited?<br>**[ X ] YES** |
| 6. Emission Factor:<br>Reference: **AP-42 (Section 13.2.4.2)** | | 9.Emissions Method Code:<br>**3** |

7. Calculation of Emissions (limit to 600 characters):

$E = k(0.0032)[u/5]^{1.3}[M/2]^{1.4}$

**E = 0.35(0.0032)[7/5]$^{1.3}$ / [0.7/2]$^{1.4}$ = 0.0081 lb/ton**

**E = 250 ton/hr (0.0081 lb/ton) = 2.03 lb/hr**

**E = (2.03 lb/hr)(1-0.90 collector efficiency) (~24 hr/day) = 4.87 lb/day**

**E = [(4.87 lb/day) / (~24 hr/day) (4000 hr/yr) / 2000 lb/ton = 0.41 ton/yr**

8. Pollutant Potential Emissions Comment (limit to 200 characters):

***Aggregate Storage Piles & Conveyor Drops – Fugitive Emissions (controlled) are subject to 62-296.700 (2)(e)(f)***

**Allowable Emissions** Allowable Emissions ___**1**___ of __**7**____

| | |
|---|---|
| 7. Basis for Allowable Emissions Code: **RULE** | 2. Future Effective Date of Allowable Emissions: **NA** |
| 8. Requested Allowable Emissions and Units: **<10% Opacity** | 9. Equivalent Allowable Emissions:<br>PM10: **0.20 lb/hr, 0.41 ton/hr**<br>TSP = **0.42 lb/hr, 0.86 ton/yr** |

5. Method of Compliance (limit to 60 characters): **Compliance will be achieved through initial and annual emissions compliance testing. Watering of stockpiles will be performed as to control fugitive emissions at all sites.**

6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):

## E. VISIBLE EMISSIONS INFORMATION
### (Only Emissions Units Subject to a VE Limitation)

**Visible Emissions Limitation:** Visible Emissions Limitation ___1___ of ___1___

| | |
|---|---|
| 1. Visible Emissions Subtype: **VE10** | 2. Basis for Allowable Opacity: [X] Rule [ ] Other |
| 3. Requested Allowable Opacity: Normal Conditions: **10 %** Exceptional Conditions: **10 %** Maximum Period of Excess Opacity Allowed: **NONE** min/hour | |
| 4. Method of Compliance: **EPA METHOD 9** | |
| 5. Visible Emissions Comment (limit to 200 characters): **Regulated under 62-296.320** | |

## F. CONTINUOUS MONITOR INFORMATION
### (Only Emissions Units Subject to Continuous Monitoring)

**Continuous Monitoring System:** Continuous Monitor _____ of _____

| | |
|---|---|
| 1. Parameter Code: | 2. Pollutant(s): |
| 3. CMS Requirement: | [ ] Rule [ ] Other |
| 4. Monitor Information: Manufacturer: Model Number: Serial Number: | |
| 5. Installation Date: | 6. Performance Specification Test Date: |
| 7. Continuous Monitor Comment (limit to 200 characters): **NOT APPLICABLE** | |

## G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

**Supplemental Requirements**

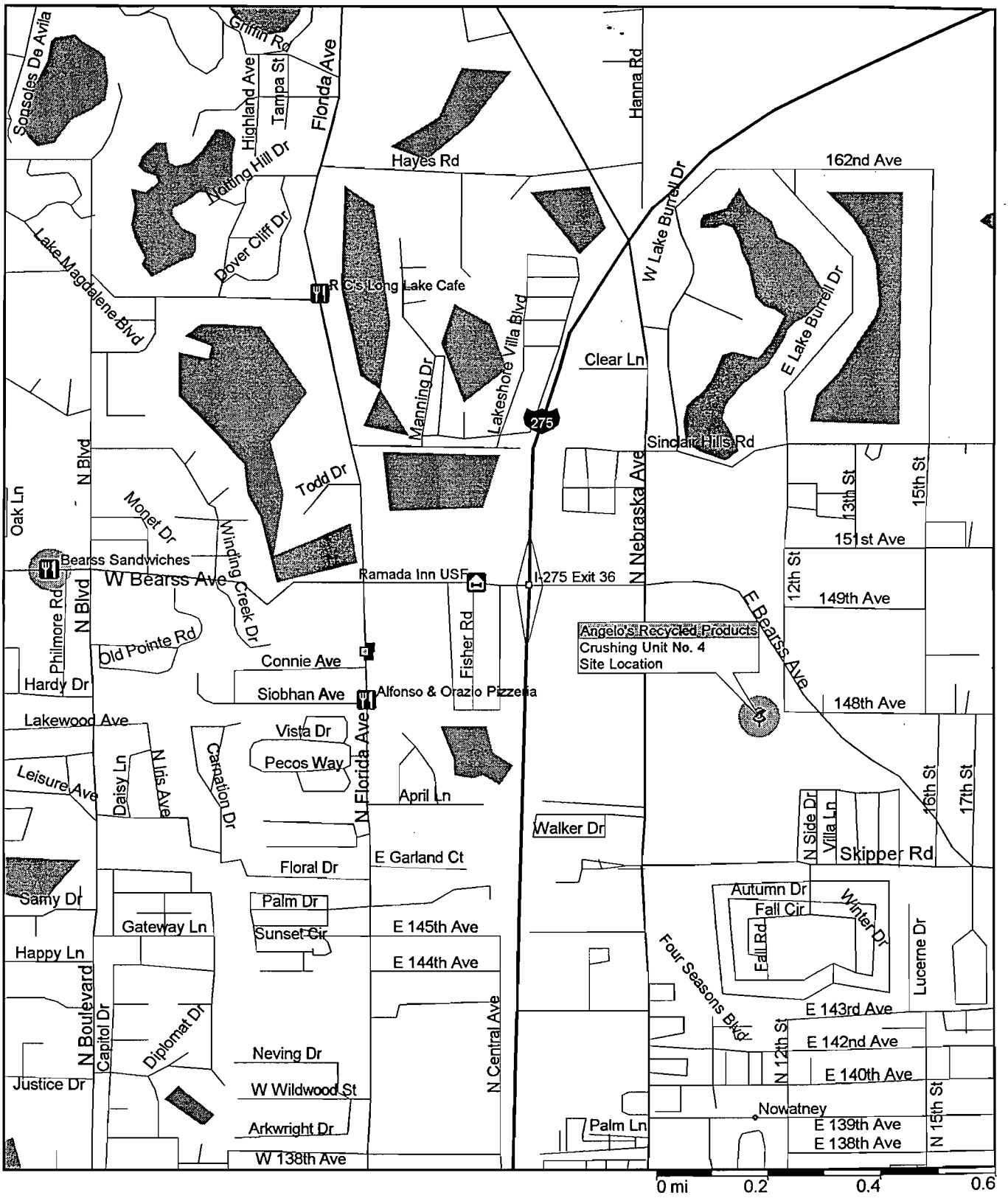
| |
|---|
| 1. Process Flow Diagram<br>[X ] Attached, Document ID: **III** [ ] Not Applicable [ ] Waiver Requested |
| 2. Fuel Analysis or Specification<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested<br>**Can be found in supplemental information section of application** |
| 3. Detailed Description of Control Equipment<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested<br>***On file at FDEP's Office*** |
| 4. Description of Stack Sampling Facilities<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 5. Compliance Test Report<br>[X ] Attached, Document ID: **IV**<br>[X ] Previously submitted, Date: ***03/2000***<br>[ ] Not Applicable |
| 6. Procedures for Startup and Shutdown<br>[ ] Attached, Document ID:_____ [X ] Not Applicable [ ] Waiver Requested |
| 7. Operation and Maintenance Plan<br>[ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested<br>***On file at FDEP's Office*** |
| 8. Supplemental Information for Construction Permit Application<br>[ ] Attached, Document ID:_____ [ ] Not Applicable<br>***On file at FDEP"s Office*** |
| 9. Other Information Required by Rule or Statute<br>[ ] Attached, Document ID:_____ [X ] Not Applicable |
| 10. Supplemental Requirements Comment: |

# TABLE OF CONTENTS

# I. AREA MAP OF CRUSHER LOCATION AT TIME OF COMPLIANCE TESTING

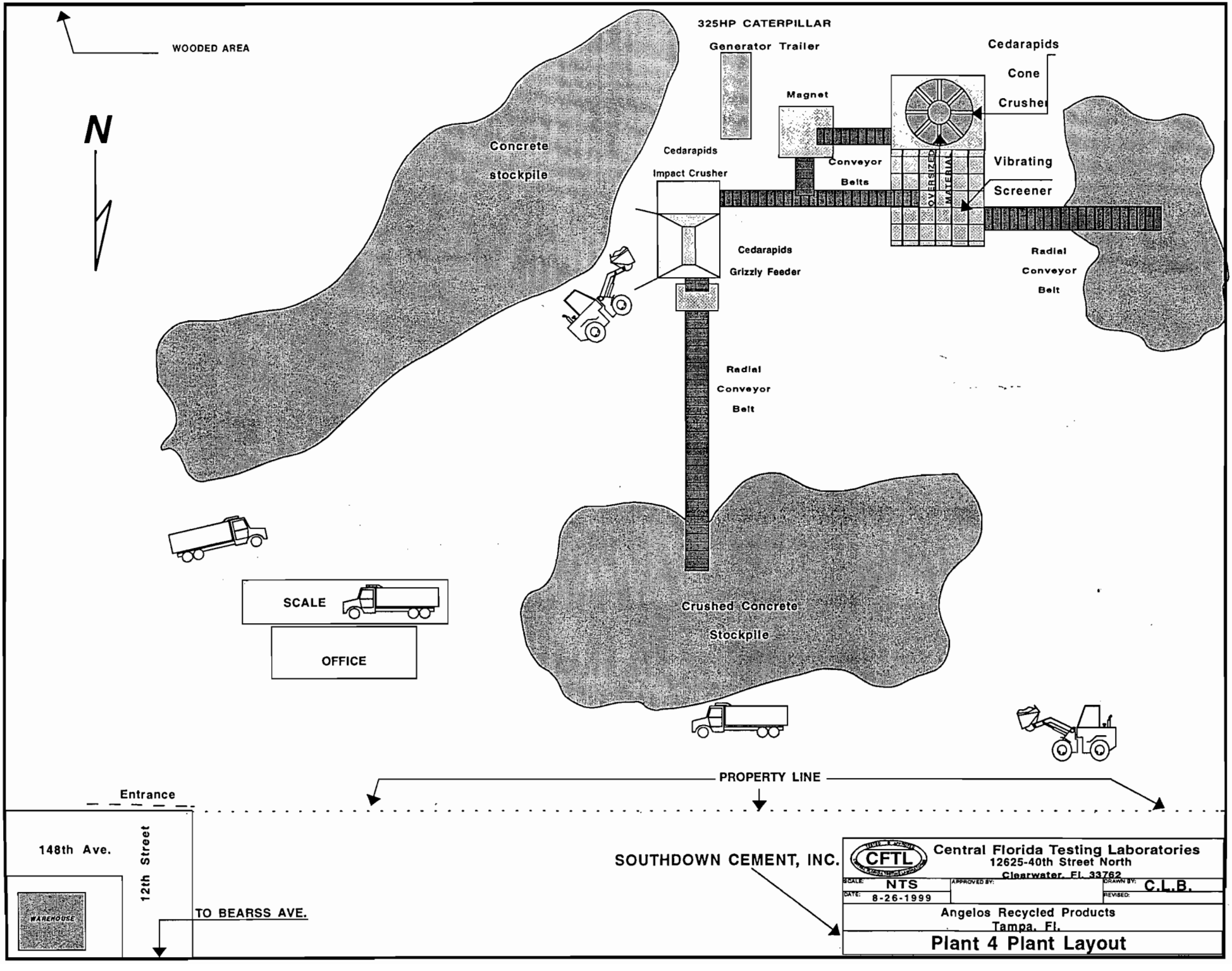
# ANGELO'S RECYCLED MATERIALS

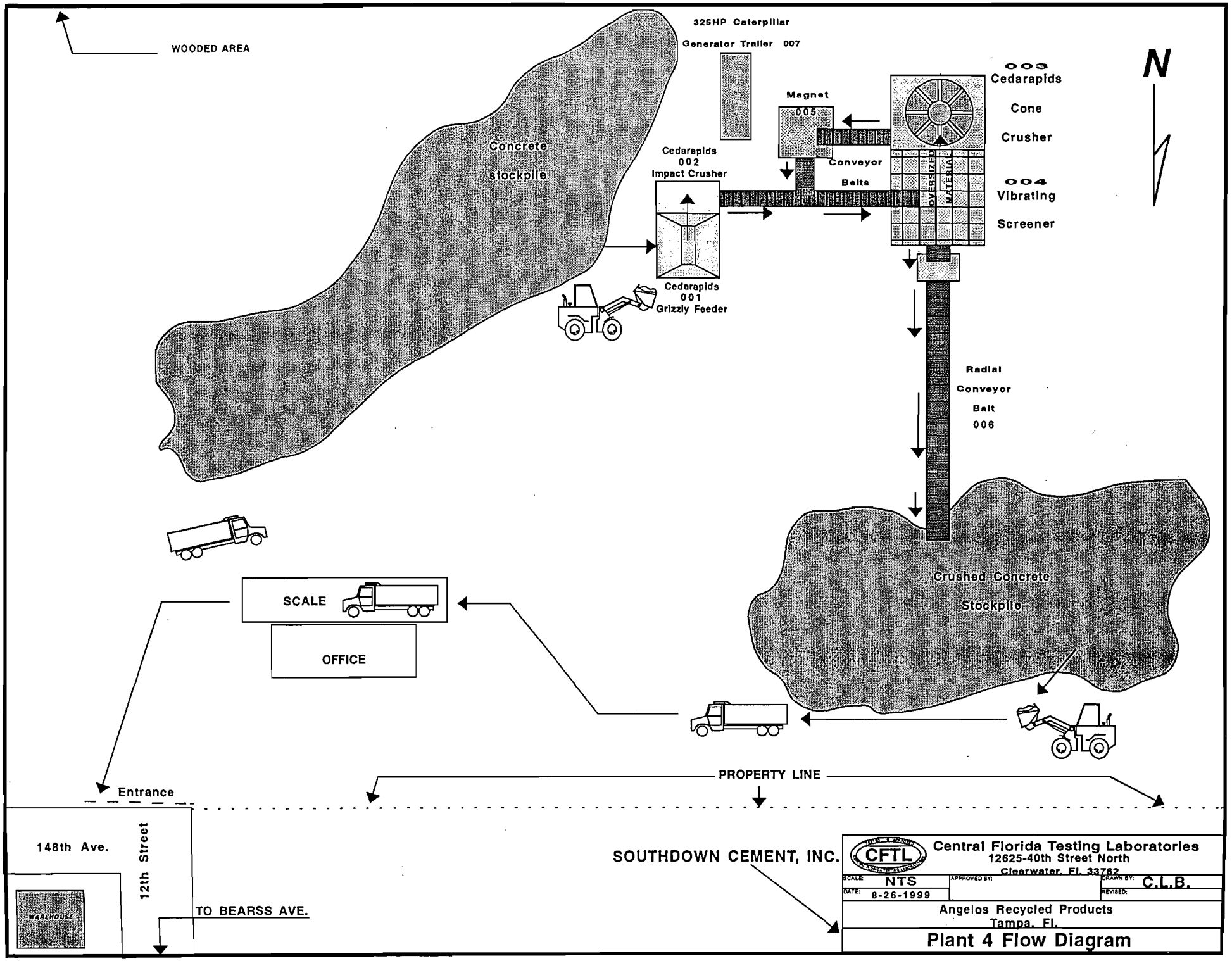
## PORTABLE RECLAIMED CRUSHING PLANT NO.4




Streets98

# II. TYPICAL FACILITY PLOT PLAN


WOODED AREA
N
325HP CATERPILLAR
Generator Trailer
Cedarapids
Cone
Crusher
Magnet
Concrete
stockpile
Cedarapids
Impact Crusher
Conveyor
Belts
OVERSIZED MATERIAL
Vibrating
Screener
Cedarapids
Grizzly Feeder
Radial
Conveyor
Belt
Radial
Conveyor
Belt
SCALE
OFFICE
Crushed Concrete
Stockpile
PROPERTY LINE
Entrance
148th Ave.
12th Street
WAREHOUSE
TO BEARSS AVE.
SOUTHDOWN CEMENT, INC.
CFTL
Central Florida Testing Laboratories
12625-40th Street North
Clearwater, Fl. 33762
SCALE: NTS
APPROVED BY:
DRAWN BY: C.L.B.
DATE: 8-26-1999
REVISED:
Angelos Recycled Products
Tampa, Fl.
Plant 4 Plant Layout


WOODED AREA
325HP Caterpillar
Generator Trailer 007
Concrete
stockpile
Magnet
005
003
Cedarapids
Cone
Crusher
Cedarapids
002
Impact Crusher
Conveyor
Belts
004
Vibrating
Screener
OVERSIZED
MATERIAL
N
Cedarapids
001
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Radial
Conveyor
Belt
006
SCALE
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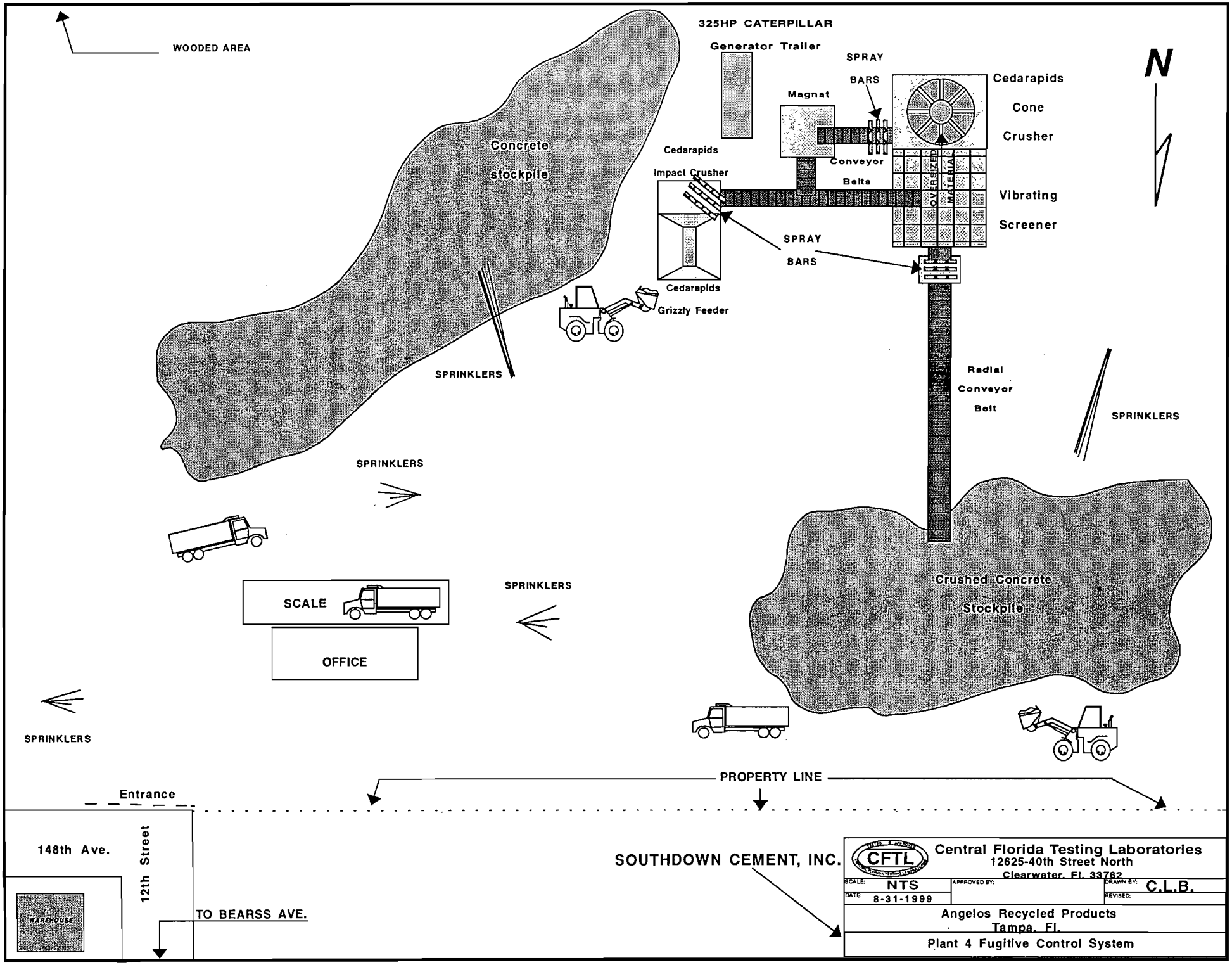
CFTL
Central Florida Testing Laboratories
12625-40th Street North
Clearwater, FL 33762
SCALE: NTS
APPROVED BY:
DRAWN BY: C.L.B.
DATE: 8-26-1999
REVISED:
Angelos Recycled Products
Tampa, FL
Plant 4 Flow Diagram


WOODED AREA
325HP CATERPILLAR
Generator Trailer
SPRAY
BARS
Magnat
Cedarapids
Cone
Crusher
Cedarapids
Impact Crusher
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Screener
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CFTL
Central Florida Testing Laboratories
12625-40th Street North
Clearwater, Fl. 33762
SCALE: NTS
APPROVED BY:
DRAWN BY: C.L.B.
DATE: 8-31-1999
REVISED:
Angelos Recycled Products
Tampa, Fl.
Plant 4 Fugitive Control System

# III. SUPPLEMENTAL INFORMATION

# III. SUPPLEMENTAL INFORMATION
## A. Initial Visible Emission Tests

# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

EP 001 - Hopper / Feeder

METHOD USED (CIRCLE ONE): METHOD 9 | 203A | 203B | OTHER:

FORM NUMBER: 0001 | PAGE 1 OF 1

CONTINUED ON VEO NUMBER:

COMPANY NAME: Angelo's Recycled Materials, Inc. - Plant No.4

STREET ADDRESS: 1201 East 148th Avenue | CITY: Tampa

MAILING ADDRESS: Post Office Box 1493

CITY: Largo | STATE: Florida | ZIP: 33779

PHONE/KEY CONTACT: | SOURCE PERMIT NUMBER: 7775092-001-AC

PROCESS EQUIPMENT: Cedarapids-Portable Crushing Unit #14 | OPERATING MODE: *See Below

CONTROL EQUIPMENT: Water Spray Bar System | OPERATING MODE: 50-52 psi

DESCRIBE EMISSION PT.: At top of feeding hopper where loader dumps material & material vibrated to crusher

DISTANCE TO EMISS. PT. START 86' END 86' | DIRECTION TO EMISS. PT. (DEGREES) START 270° END 270°

HEIGHT OF EMISS PT. START ~15' END ~15' | HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~12' END ~12'

VERTICAL ANGLE TO OBS. PT. START 9° END 9° | DIRECTION TO OBS. PT. (DEGREES) START 270° END 270°

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT START ~6' We read at top of feeder END

DESCRIBE EMISSIONS START None END None

EMISSION COLOR START None END None | WATER DROPLET PLUME: ☐ ATTACHED ☐ DETACHED ☒ NONE

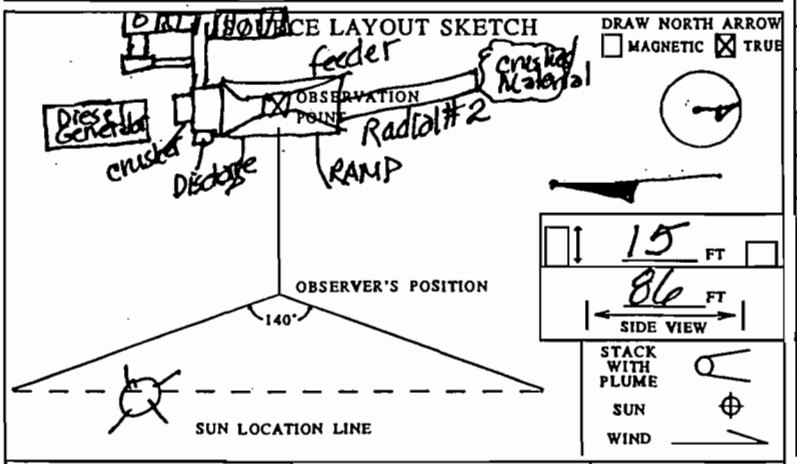
DESCRIBE PLUME BACKGROUND START SKY END SKY

BACKGROUND COLOR START Blue END Blue | SKY CONDITIONS START Clear END Clear

WIND SPEED START 0-2mph END 0-2mph | WIND DIRECTION START North From END North From

AMBIENT TEMPERATURE START [illegible] °F END 44.3°F | WET BULB TEMP. | PERCENT RH 45%

SOURCE LAYOUT SKETCH




LAT: | LONG: | DECLINATION

ADDITIONAL INFORMATION: No objectionable odors, no fugitives detected. Grounds watered & stockpiles See Process Weight Section for PW = determination during test. Loads consisted of concrete & asphalt

OBSERVATION DATE: 04-04-2000 | START TIME: 10:35:00 AM | END TIME: 11:34:45 AM

| MIN \ SEC | 0 | 15 | 30 | 45 | MIN \ SEC | 0 | 15 | 30 | 45 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 39 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 | 48 | 0 | 0 | 0 | 0 |
| 19 | 0 | 0 | 0 | 0 | 49 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 |
| 21 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 |
| 22 | 0 | 0 | 0 | 0 | 52 | 0 | 0 | 0 | 0 |
| 23 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 0 | 0 | 54 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 55 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 56 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 | 57 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 | 58 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | 59 | 0 | 0 | 0 | 0 |
| 30 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 |

AVERAGE OPACITY: 0% | HIGHEST SIX MINUTE INTERVAL: 0%

OBSERVER'S NAME (PRINT): Bernard A. Ball, Jr.

OBSERVER'S SIGNATURE: Bernard A. Ball Jr. | DATE: 4/4/2000

ORGANIZATION: Central Florida Testing Laboratories, Inc.

CERTIFIED BY: E.T.A. - Tampa | DATE: 2/2000

# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

EP 802 - Jaw Crusher

METHOD USED (CIRCLE ONE): METHOD 9 | 203A | 203B | OTHER:

FORM NUMBER | PAGE 1 OF 1

CONTINUED ON VEO NUMBER

COMPANY NAME: Angelo's Recycled Materials, Inc. - Plant No.4

STREET ADDRESS: 1201 East 148th Avenue | CITY: Tampa

MAILING ADDRESS: Post Office Box 1493

CITY: Largo | STATE: Florida | ZIP: 33779

PHONE/KEY CONTACT | SOURCE PERMIT NUMBER: 7775092-001-AC

PROCESS EQUIPMENT: Crushing Unit No.4 Cedarapids Portable | OPERATING MODE: See below

CONTROL EQUIPMENT: Water Spray Bar System | OPERATING MODE: 50-52psi

DESCRIBE EMISSION PT.: Bottom of crusher where material is discharged to conveyor belt

DISTANCE TO EMISS. PT. START 86' END 86' | DIRECTION TO EMISS. PT. (DEGREES) START 268° END 268°

HEIGHT OF EMISS PT. START 5' END 5' | HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~2' END ~2'

VERTICAL ANGLE TO OBS. PT. START 0° END 0° | DIRECTION TO OBS. PT. (DEGREES) START 268° END 268°

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT START We read @ crusher discharge ✓ END

DESCRIBE EMISSIONS START None END None

EMISSION COLOR START None END None | WATER DROPLET PLUME: ☐ ATTACHED ☐ DETACHED ☒ NONE

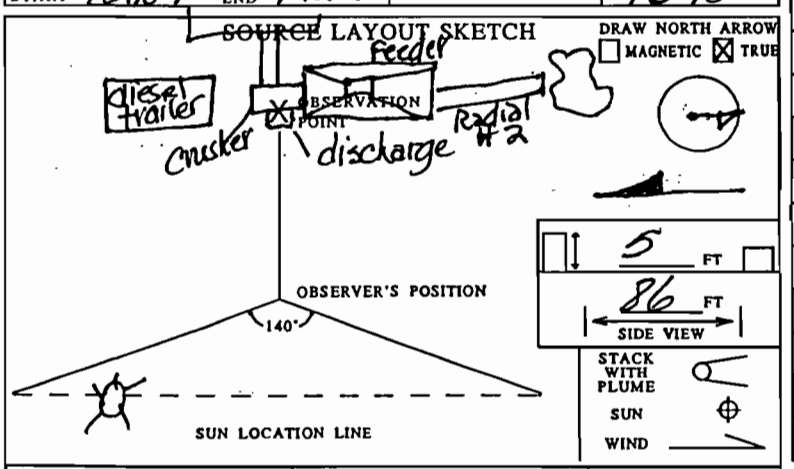
DESCRIBE PLUME BACKGROUND START Gray Equipment END Gray Equipment

BACKGROUND COLOR START Gray END Gray | SKY CONDITIONS START Clear END Clear

WIND SPEED START 0-2 mph END 0-2 mph | WIND DIRECTION START North FROM END North

AMBIENT TEMPERATURE START 42.0°F END 44.1°F | WET BULB TEMP. | PERCENT RH 45%

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW ☐ MAGNETIC ☒ TRUE




LAT: | LONG: | DECLINATION

ADDITIONAL INFORMATION: No objectionable odors, no fugitives detected grounds & stockpiles watered. See Process Weight Section of Test for PW = Determination Crushing mixed concrete and asphalt.

OBSERVATION DATE: 04-04-2000 | START TIME: 10:35:00am | END TIME: 11:34:45am

| MIN \ SEC | 0 | 15 | 30 | 45 | MIN \ SEC | 0 | 15 | 30 | 45 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 39 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 | 48 | 0 | 0 | 0 | 0 |
| 19 | 0 | 0 | 0 | 0 | 49 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 |
| 21 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 |
| 22 | 0 | 0 | 0 | 0 | 52 | 0 | 0 | 0 | 0 |
| 23 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 0 | 0 | 54 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 55 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 56 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 | 57 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 | 58 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | 59 | 0 | 0 | 0 | 0 |
| 30 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 |

AVERAGE OPACITY: 0% | HIGHEST SIX MINUTE INTERVAL: 0%

OBSERVER'S NAME (PRINT): Bernard A. Ball, Jr.

OBSERVER'S SIGNATURE: Bernard A. Ball Jr. | DATE: 4/4/2000

ORGANIZATION: Central Florida Testing Laboratories, Inc.

CERTIFIED BY: E.T.A. - Tampa | DATE: 2/2000

# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

EP003 - Cone Crusher

METHOD USED (CIRCLE ONE): METHOD 9 | 203A | 203B | OTHER:

FORM NUMBER | PAGE 1 OF 1

CONTINUED ON VEO NUMBER

COMPANY NAME: Angelo's Recycled Materials, Inc. - Plant No.4

STREET ADDRESS: 1201 East 148th Avenue | CITY: Tampa

MAILING ADDRESS: Post Office Box 1493

CITY: Largo | STATE: Florida | ZIP: 33779

PHONE/KEY CONTACT | SOURCE PERMIT NUMBER: 7775092-001-AC

PROCESS EQUIPMENT: Cedarapids Portable Crushing Unit No.4 | OPERATING MODE: * See Below

CONTROL EQUIPMENT: Water Spray Bar System | OPERATING MODE: 50-52 psi

DESCRIBE EMISSION PT.: Top of cone crusher where material drops in.

DISTANCE TO EMISS. PT. START 56' END 56' | DIRECTION TO EMISS. PT. (DEGREES) START 302° END 302°

HEIGHT OF EMISS PT. START ~12' END ~12' | HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~9' END ~9'

VERTICAL ANGLE TO OBS. PT. START 10° END 10° | DIRECTION TO OBS. PT. (DEGREES) START 302° END 302°

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT START VE read atop of cone crusher ✓ END

DESCRIBE EMISSIONS START None END None

EMISSION COLOR START None END None | WATER DROPLET PLUME ☐ ATTACHED ☐ DETACHED ☒ NONE

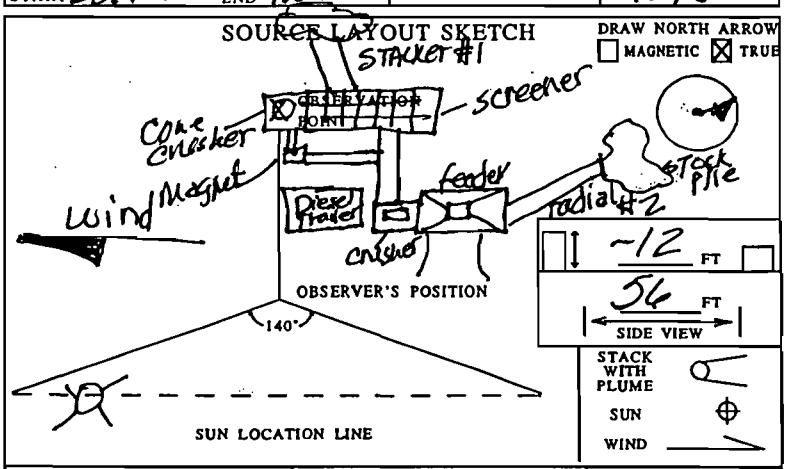
DESCRIBE PLUME BACKGROUND START Sky END Sky

BACKGROUND COLOR START Blue END blue | SKY CONDITIONS START Clear END Clear

WIND SPEED START 0-2 mph END 0-2 mph | WIND DIRECTION START North From END North

AMBIENT TEMPERATURE START 38.4°F END 42°F | WET BULB TEMP. | PERCENT RH 41%

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW ☐ MAGNETIC ☒ TRUE




LAT: | LONG: | DECLINATION

ADDITIONAL INFORMATION: No objectionable odors, no fugitives detected. Grounds & stockpiles watered. See Process Weight Section of Test for PW= Determination. Crushing mixed concrete and asphalt.

OBSERVATION DATE: 04-04-2000 | START TIME: 9:30:00am | END TIME: 10:29:45am

| SEC / MIN | 0 | 15 | 30 | 45 | SEC / MIN | 0 | 15 | 30 | 45 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 39 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 | 48 | 0 | 0 | 0 | 0 |
| 19 | 0 | 0 | 0 | 0 | 49 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 |
| 21 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 |
| 22 | 0 | 0 | 0 | 0 | 52 | 0 | 0 | 0 | 0 |
| 23 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 0 | 0 | 54 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 55 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 56 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 | 57 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 | 58 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | 59 | 0 | 0 | 0 | 0 |
| 30 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 |

AVERAGE OPACITY: 0% | HIGHEST SIX MINUTE INTERVAL: 0%

OBSERVER'S NAME (PRINT): Bernard A. Ball, Jr.

OBSERVER'S SIGNATURE: Bernard A. Ball Jr. | DATE: 4/4/2000

ORGANIZATION: Central Florida Testing Laboratories, Inc.

CERTIFIED BY: E.T.A. - Tampa | DATE: 2/2000

# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

EP004 "Vibrating screener"

METHOD USED (CIRCLE ONE): METHOD 9 | 203A | 203B | OTHER:

FORM NUMBER: | PAGE / OF /

CONTINUED ON VEO NUMBER:

COMPANY NAME: Angelo's Recycled Materials, Inc. - Plant No.4

STREET ADDRESS: 1201 East 148th Avenue | CITY: Tampa

MAILING ADDRESS: Post Office Box 1493

CITY: Largo | STATE: Florida | ZIP: 33779

PHONE/KEY CONTACT: | SOURCE PERMIT NUMBER: 7775092-001-AC

PROCESS EQUIPMENT: Cedarapids, Inc. Portable Crushing Unit #4 | OPERATING MODE: *See Below

CONTROL EQUIPMENT: Water Spray Bar System | OPERATING MODE: 50-52 psi

DESCRIBE EMISSION PT.: Double Deck Vibrating screener

DISTANCE TO EMISS. PT. START 57' END 57' | DIRECTION TO EMISS. PT. (DEGREES) START 306° (NW) END 306° (NW)

HEIGHT OF EMISS PT. START ~12' END ~12' | HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~8' END ~8'

VERTICAL ANGLE TO OBS. PT. START 70° END 70° | DIRECTION TO OBS. PT. (DEGREES) START 306° (NW) END 306° (NW)

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT START ~6" above top screen END ~6" above top screen

DESCRIBE EMISSIONS START None END None

EMISSION COLOR START None END None | WATER DROPLET PLUME: ☐ ATTACHED ☐ DETACHED ☒ NONE

DESCRIBE PLUME BACKGROUND START Clear Blue Sky END Clear Blue Sky

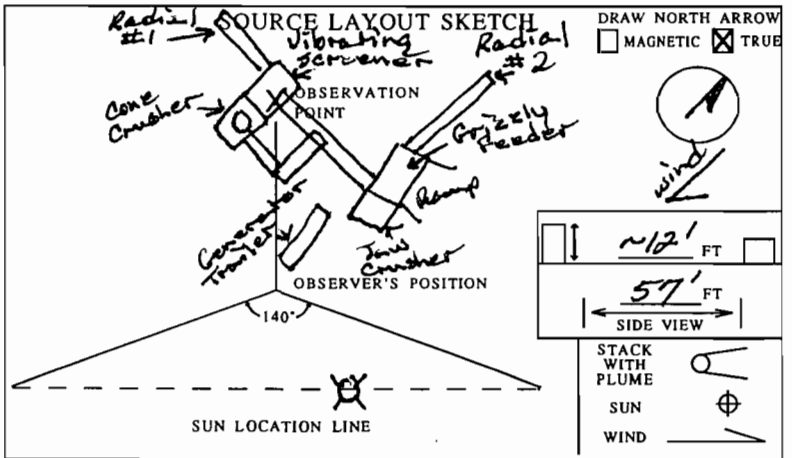
BACKGROUND COLOR START Blue END Blue | SKY CONDITIONS START Clear END Clear

WIND SPEED START 0-2 mph END 0-2 mph | WIND DIRECTION START North END North (From)

AMBIENT TEMPERATURE START 58.4°F END 42.0°F | WET BULB TEMP. | PERCENT RH 41%

SOURCE LAYOUT SKETCH

DRAW NORTH ARROW: ☐ MAGNETIC ☒ TRUE




LAT: | LONG: | DECLINATION

ADDITIONAL INFORMATION: No objectionable odors nor fugitives detected. See Process Weight section of test for PW determination during test. Grounds and stockpiles watered. Loads consisted of concrete and asphalt

OBSERVATION DATE: 4-4-2000 | START TIME: 9:31:00 AM | END TIME: 10:30:45 AM

| SEC / MIN | 0 | 15 | 30 | 45 | SEC / MIN | 0 | 15 | 30 | 45 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 39 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 | 48 | 0 | 0 | 0 | 0 |
| 19 | 0 | 0 | 0 | 0 | 49 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 |
| 21 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 |
| 22 | 0 | 0 | 0 | 0 | 52 | 0 | 0 | 0 | 0 |
| 23 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 0 | 0 | 54 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 55 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 56 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 | 57 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 | 58 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | 59 | 0 | 0 | 0 | 0 |
| 30 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 |

AVERAGE OPACITY: 0% | HIGHEST SIX MINUTE INTERVAL: 0%

OBSERVER'S NAME (PRINT): Christopher L. Briley

OBSERVER'S SIGNATURE: Christopher L. Briley | DATE: 4-4-2000

ORGANIZATION: Central Florida Testing Laboratories, Inc.

CERTIFIED BY: E.T.A. - Tampa | DATE: 2-22-2000

# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

EP005 "Magnet"

| METHOD USED (CIRCLE ONE) | | | | |
|---|---|---|---|---|
| | METHOD 9 | 203A | 203B | OTHER: |

| FORM NUMBER | | PAGE 1 OF 1 |
|---|---|---|
| CONTINUED ON VEO NUMBER | | |

COMPANY NAME: **Angelo's Recycled Materials, Inc. - Plant No.4**

STREET ADDRESS: **1201 East 148th Avenue** | CITY: **Tampa**

MAILING ADDRESS: **Post Office Box 1493**

CITY: **Largo** | STATE: **Florida** | ZIP: **33779**

PHONE/KEY CONTACT: | SOURCE PERMIT NUMBER: **7775092-001-AC**

PROCESS EQUIPMENT: Cedarapids, Inc. Portable Crushing Unit #4 | OPERATING MODE: *See Below

CONTROL EQUIPMENT: Water Spray Bar System | OPERATING MODE: 50-52 psi

DESCRIBE EMISSION PT.: Metal separator Magnet @ discharge end of Crusher discharge conveyor belt.

DISTANCE TO EMISS. PT. START ~25' END ~25' | DIRECTION TO EMISS. PT. (DEGREES) START 319°(NW) END 319°(NW)

HEIGHT OF EMISS PT. START ~7' END ~7' | HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~3' END ~3'

VERTICAL ANGLE TO OBS. PT. START 20 END 20 | DIRECTION TO OBS. PT. (DEGREES) START 319°(NW) END 319°(NW)

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT START read @ belt drop pt. END read @ belt drop pt.

DESCRIBE EMISSIONS START None END None

EMISSION COLOR START None END None | WATER DROPLET PLUME ☐ ATTACHED ☐ DETACHED ☒ NONE

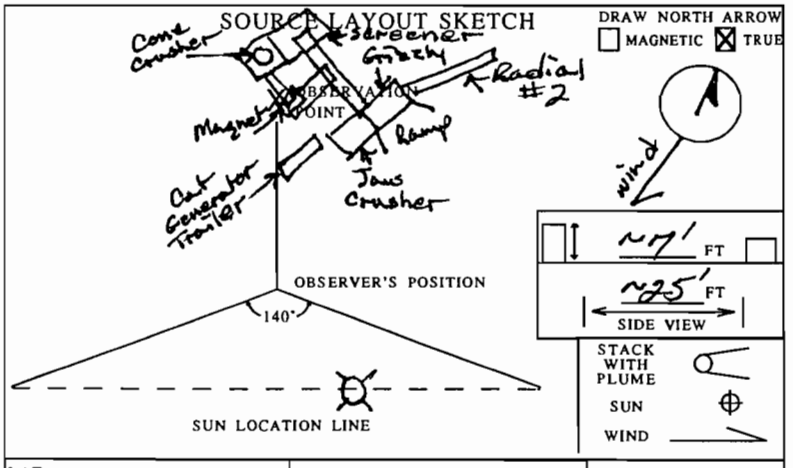
DESCRIBE PLUME BACKGROUND START Plant Machinery END Plant Machinery

BACKGROUND COLOR START Gray END Gray | SKY CONDITIONS START Clear END Clear

WIND SPEED START 0-2mph END 0-2mph | WIND DIRECTION From START North END North

AMBIENT TEMPERATURE START 38.4°F END 42.0°F | WET BULB TEMP. | PERCENT RH 41%

SOURCE LAYOUT SKETCH




DRAW NORTH ARROW ☐ MAGNETIC ☒ TRUE

LAT: | LONG: | DECLINATION

ADDITIONAL INFORMATION: No objectionable odors nor fugitives detected. See Process Weight section of test for PW determination during test. Grounds and stockpiles watered. Loads consisted of concrete and asphalt.

OBSERVATION DATE: 4-4-2000 | START TIME: 9:31:00 AM | END TIME: 10:30:45 AM

| SEC / MIN | 0 | 15 | 30 | 45 | SEC / MIN | 0 | 15 | 30 | 45 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 39 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 | 48 | 0 | 0 | 0 | 0 |
| 19 | 0 | 0 | 0 | 0 | 49 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 |
| 21 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 |
| 22 | 0 | 0 | 0 | 0 | 52 | 0 | 0 | 0 | 0 |
| 23 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 0 | 0 | 54 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 55 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 56 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 | 57 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 | 58 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | 59 | 0 | 0 | 0 | 0 |
| 30 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 |

AVERAGE OPACITY: 0% | HIGHEST SIX MINUTE INTERVAL: 0%

OBSERVER'S NAME (PRINT): **Christopher L. Briley**

OBSERVER'S SIGNATURE: Christopher L. Briley | DATE: 4-4-2000

ORGANIZATION: **Central Florida Testing Laboratories, Inc.**

CERTIFIED BY: **E.T.A. - Tampa** | DATE: 2-22-2000

# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

EP006 - Radial Stacker No. 1

METHOD USED (CIRCLE ONE): METHOD 9 | 203A | 203B | OTHER:

FORM NUMBER | PAGE 1 OF 1

CONTINUED ON VEO NUMBER

COMPANY NAME: Angelo's Recycled Materials, Inc. - Plant No.4

STREET ADDRESS: 1201 East 148th Avenue | CITY: Tampa

MAILING ADDRESS: Post Office Box 1493

CITY: Largo | STATE: Florida | ZIP: 33779

PHONE/KEY CONTACT | SOURCE PERMIT NUMBER: 7775092-001-AC

PROCESS EQUIPMENT: Cedarapids Portable Crushing Unit No.4 | OPERATING MODE: See below

CONTROL EQUIPMENT: Water Spray Bar System | OPERATING MODE: 50-52 psi

DESCRIBE EMISSION PT.: where crushed material falls from Radial Stacker #1 to stockpile

DISTANCE TO EMISS. PT. START 102' END 102' | DIRECTION TO EMISS. PT. (DEGREES) START 280° END 280°

HEIGHT OF EMISS PT. START ~20' END ~20' | HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~17' END ~17'

VERTICAL ANGLE TO OBS. PT. START 6° END 6° | DIRECTION TO OBS. PT. (DEGREES) START 280° END 280°

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START @drop point END Ve read @ drop point

DESCRIBE EMISSIONS START None END None

EMISSION COLOR START None END None | WATER DROPLET PLUME: ☐ ATTACHED ☐ DETACHED ☑ NONE

DESCRIBE PLUME BACKGROUND START SKY END SKY

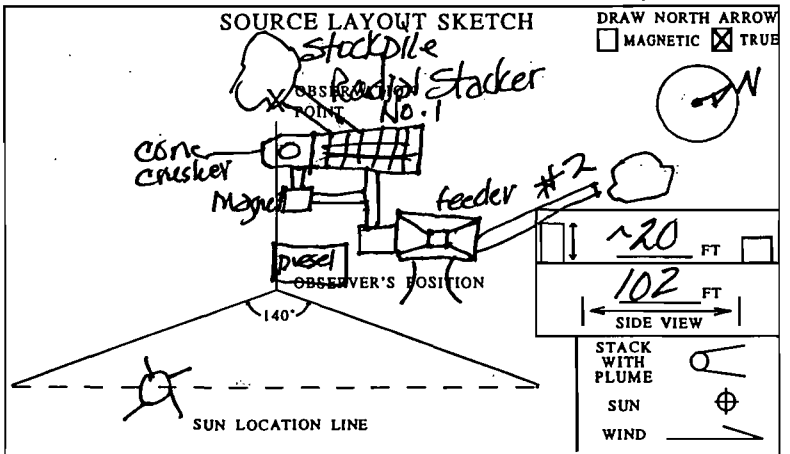
BACKGROUND COLOR START Blue END Blue | SKY CONDITIONS START Clear END Clear

WIND SPEED START 0-2mph END 0-2mph | WIND DIRECTION START From North END North

AMBIENT TEMPERATURE START 38.9°F END 42°F | WET BULB TEMP. | PERCENT RH 41%

SOURCE LAYOUT SKETCH

DRAW NORTH ARROW: ☐ MAGNETIC ☒ TRUE




LAT: | LONG: | DECLINATION

ADDITIONAL INFORMATION: No objectionable odors, nor fugitives detected. Grounds, roadways & stockpiles being watered. See Process Weight Section of test for PW determination. Crushing mixed concrete & asphalt for test.

OBSERVATION DATE: 04-04-2000 | START TIME: 9:30:00 am | END TIME: 10:29:45 am

| SEC / MIN | 0 | 15 | 30 | 45 | SEC / MIN | 0 | 15 | 30 | 45 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 39 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 | 48 | 0 | 0 | 0 | 0 |
| 19 | 0 | 0 | 0 | 0 | 49 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 |
| 21 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 |
| 22 | 0 | 0 | 0 | 0 | 52 | 0 | 0 | 0 | 0 |
| 23 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 0 | 0 | 54 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 55 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 56 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 | 57 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 | 58 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | 59 | 0 | 0 | 0 | 0 |
| 30 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 |

AVERAGE OPACITY: 0% | HIGHEST SIX MINUTE INTERVAL: 0%

OBSERVER'S NAME (PRINT): Bernard A. Ball, Jr.

OBSERVER'S SIGNATURE: Bernard A Ball Jr | DATE: 4/4/2000

ORGANIZATION: Central Florida Testing Laboratories, Inc.

CERTIFIED BY: E.T.A. - Tampa | DATE: 2/2000

# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

"Radial #2"

METHOD USED (CIRCLE ONE): METHOD 9 | 203A | 203B | OTHER:

FORM NUMBER | PAGE 1 OF

CONTINUED ON VEO NUMBER

COMPANY NAME: Angelo's Recycled Materials, Inc. - Plant No.4

STREET ADDRESS: 1201 East 148th Avenue | CITY: Tampa

MAILING ADDRESS: Post Office Box 1493

CITY: Largo | STATE: Florida | ZIP: 33779

PHONE/KEY CONTACT | SOURCE PERMIT NUMBER: 7775092-001-AC

PROCESS EQUIPMENT: Cedarapids, Inc. Portable Crushing Unit #4 | OPERATING MODE: *See Below

CONTROL EQUIPMENT: Water Spray Bar System | OPERATING MODE: 50-52 psi

DESCRIBE EMISSION PT.: Finished material radial discharge conveyor belt #2.

DISTANCE TO EMISS. PT. START 72' END 72' | DIRECTION TO EMISS. PT. (DEGREES) START 294°(WNW) END 294°(WNW)

HEIGHT OF EMISS PT. START ~20' END ~20' | HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~16' END ~16'

VERTICAL ANGLE TO OBS. PT. START 7° END 7° | DIRECTION TO OBS. PT. (DEGREES) START 294°(WNW) END 294°(WNW)

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT START read @ belt drop pt. END read @ belt drop pt.

DESCRIBE EMISSIONS START None END None

EMISSION COLOR START None END None | WATER DROPLET PLUME: ☐ ATTACHED ☐ DETACHED ☒ NONE

DESCRIBE PLUME BACKGROUND START Clear Blue Sky END Clear Blue Sky

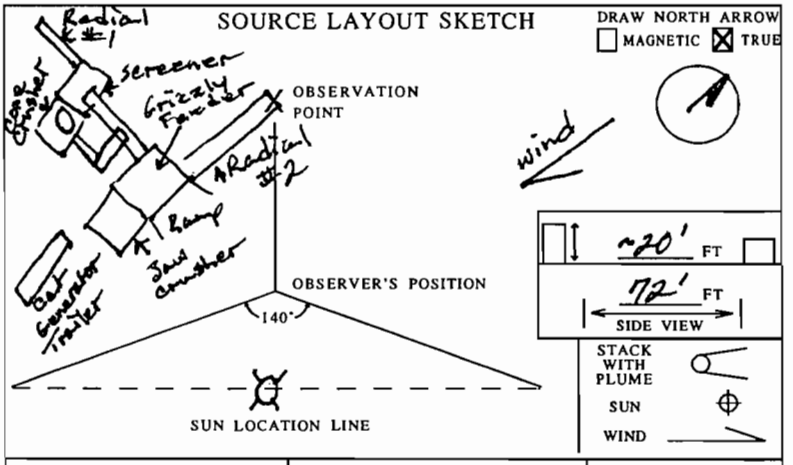
BACKGROUND COLOR START Blue END Blue | SKY CONDITIONS START Clear END Clear

WIND SPEED START 0-2 mph END 0-2 mph | WIND DIRECTION FROM START North END North

AMBIENT TEMPERATURE START 42.0°F END 44.3°F | WET BULB TEMP. | PERCENT RH 45%

SOURCE LAYOUT SKETCH

DRAW NORTH ARROW: ☐ MAGNETIC ☒ TRUE




LAT: | LONG: | DECLINATION

ADDITIONAL INFORMATION: No objectionable odors nor fugitives detected. See Process Weight section of test for PW determination during test. Grounds and stockpiles watered. Loads consisted of concrete and asphalt.

OBSERVATION DATE: 4-4-2000 | START TIME: 10:35:00 AM | END TIME: 11:34:45 AM

| SEC / MIN | 0 | 15 | 30 | 45 | SEC / MIN | 0 | 15 | 30 | 45 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 39 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 | 48 | 0 | 0 | 0 | 0 |
| 19 | 0 | 0 | 0 | 0 | 49 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 |
| 21 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 |
| 22 | 0 | 0 | 0 | 0 | 52 | 0 | 0 | 0 | 0 |
| 23 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 0 | 0 | 54 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 55 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 56 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 | 57 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 | 58 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | 59 | 0 | 0 | 0 | 0 |
| 30 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 |

AVERAGE OPACITY: 0% | HIGHEST SIX MINUTE INTERVAL: 0%

OBSERVER'S NAME (PRINT): Christopher L. Briley

OBSERVER'S SIGNATURE: Christopher L. Briley | DATE: 4-4-2000

ORGANIZATION: Central Florida Testing Laboratories, Inc.

CERTIFIED BY: E.T.A. - Tampa | DATE: 2-22-2000

# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

Diesel Generator EP=007

METHOD USED (CIRCLE ONE): METHOD 9 | 203A | 203B | OTHER:

FORM NUMBER | PAGE 1 OF 1

CONTINUED ON VEO NUMBER

COMPANY NAME: Angelo's Recycled Materials, Inc. - Plant No.4

STREET ADDRESS: 1201 East 148th Avenue | CITY: Tampa

MAILING ADDRESS: Post Office Box 1493

CITY: Largo | STATE: Florida | ZIP: 33779

PHONE/KEY CONTACT | SOURCE PERMIT NUMBER: 7775092-001-AC

PROCESS EQUIPMENT: Cedarapids Portable Crushing Plant No.4 - Generator | OPERATING MODE: See Below

CONTROL EQUIPMENT: None | OPERATING MODE: None

DESCRIBE EMISSION PT.: 10" exhaust stack exiting top of diesel trailer

DISTANCE TO EMISS. PT. START 92' END 92' | DIRECTION TO EMISS. PT. (DEGREES) START 232° END 232°

HEIGHT OF EMISS PT. START ~17' END ~17' | HEIGHT TO EMISS. PT. REL. TO OBSERVER START ~14' END ~14'

VERTICAL ANGLE TO OBS. PT. START 10° END 10° | DIRECTION TO OBS. PT. (DEGREES) START 232° END 232°

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT START read at exhaust exit END ✓

DESCRIBE EMISSIONS START Heat Vapors END Heat Vapors

EMISSION COLOR START Clear END Clear | WATER DROPLET PLUME: ☐ ATTACHED ☐ DETACHED ☒ NONE

DESCRIBE PLUME BACKGROUND START Sky END Sky

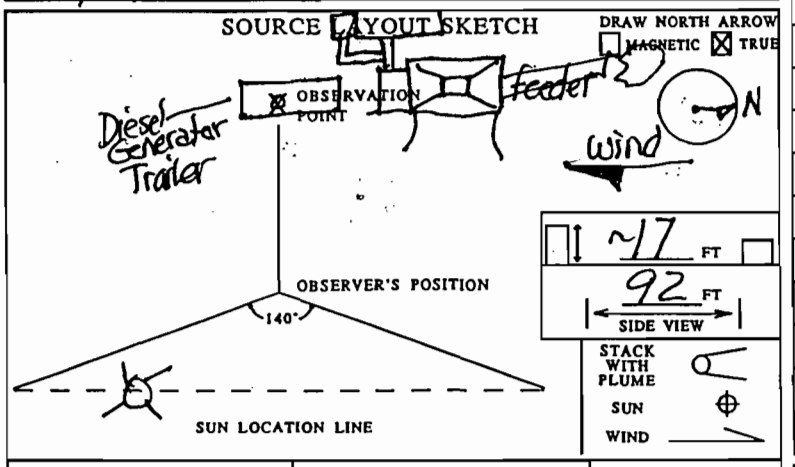
BACKGROUND COLOR START Blue END Blue | SKY CONDITIONS START Clear END Clear

WIND SPEED START 0-2 mph END 0-2 mph | WIND DIRECTION START North END From North

AMBIENT TEMPERATURE START 42°F END 44.1°F | WET BULB TEMP. | PERCENT RH 45%

SOURCE LAYOUT SKETCH

DRAW NORTH ARROW: ☐ MAGNETIC ☒ TRUE




LAT: | LONG: | DECLINATION

ADDITIONAL INFORMATION: Generator @ max for testing purposes
No objectionable odors, no fugitives
Generator consuming No.2 Virgin Diesel fuel @ 10.2 gal/hr.

OBSERVATION DATE: 04-04-2000 | START TIME: 10:35:00am | END TIME: 11:34:35am

| MIN \ SEC | 0 | 15 | 30 | 45 | MIN \ SEC | 0 | 15 | 30 | 45 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 39 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 | 48 | 0 | 0 | 0 | 0 |
| 19 | 0 | 0 | 0 | 0 | 49 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 |
| 21 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 |
| 22 | 0 | 0 | 0 | 0 | 52 | 0 | 0 | 0 | 0 |
| 23 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 0 | 0 | 54 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 55 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 56 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 | 57 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 | 58 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | 59 | 0 | 0 | 0 | 0 |
| 30 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 |

AVERAGE OPACITY 0% | HIGHEST SIX MINUTE INTERVAL 0%

OBSERVER'S NAME (PRINT): Bernard A. Ball, Jr.

OBSERVER'S SIGNATURE: Bernard A. Ball Jr. | DATE: 4/4/2000

ORGANIZATION: Central Florida Testing Laboratories, Inc.

CERTIFIED BY: E.T.A. - Tampa | DATE: 3/2000

# III. SUPPLEMENTAL INFORMATION
## B. Process Weight Determination

CENTRAL FLORIDA TESTING LABORATORIES, INC.
12625 - 40th Street North - Clearwater, Florida 33762
(727)572-9797 (800)248-CFTL

**ANGELO'S RECYCLED MATERIALS, INC.**
**Reclaimed Asphalt & Concrete Crushing Unit No.4**
**Initial Emissions Compliance Test**
**Determination of Process Weight**

| Date | Run No. | Time | | Total Material Crushed (weigh bridge) | |
|---|---|---|---|---|---|
| | | Start | Stop | Start | Stop |
| 04/04/00 | V.E. | 9:15 a.m. | 11:45 a.m. | 0.0 | 490.5 |

## *PROCESS WEIGHT*

*** all material crushed is measured across a weigh bridge*

$$Pw = \frac{\text{Total Tons Crushed}}{\text{Total Crushing Time}}$$

Run No.IVE

$$Pw = \frac{(490.5)\text{ tons}}{\text{2 hour 30 minutes}} = 196.2\text{ ton/hr}$$

I certify that the above statements are true to the best of my knowledge and belief.

*Mr. Richard Bazinet, Director of Florida Operations*

# III. SUPPLEMENTAL INFORMATION
## C. Fuel Analysis (Generator)

990 NORTH DOCK STREET / PORT MANATEE
PALMETTO, FL 34221
(941) 723-2263
ASTM MEMBER

# REPORT OF LABORATORY ANALYSIS

LAB NO, ML 8504 SAMPLE MARKED: STK 407 after"Mekhanik Yuriya

LOCATION: Coastal Refining&Marketing Inc.-Port Manatee
SAMPLE SUBMITTED BY: Intertek Caleb Brett
SAMPLE DESCRIPTION: DIESEL HIGH SULFUR

| TEST | METHOD | RESULT |
|---|---|---|
| API GRAVITY AT 60 F | D1298 | 33.3 |
| ACID NO. | D974 | ------ |
| DENSITY, kg/L AT 15 C | D1298 | 858.2 |
| FLASH PT, F, PMCC | D93 | 172 |
| SEDIMENT & WATER, VOL.% | D2709 | 0 |
| VISCOSITY AT 40 C cSt | D445 | 3.77 |
| VISCOSITY AT 122 F,cSt | D445 | 3.05 |
| S.U.S. VISCOSITY AT 100 F | D445 | 39.1 |
| CLOUD PT., F | D2500 | +10 |
| POUR POINT, F | D97 | 0 |
| SULFUR, WT.% | D4294 | 0.27 |
| ASH, WT.% | D482 | 0.001 |
| APPEARANCE | D4176 | 1-pass |
| B.T.U./ GAL. HHV/ | D240 | 139953 |
| DYE,PPM/PTB | DT-100 | 12.3/4.3 |
| NITROGEN, PPM | D4629 | ------- |
| COMPATIBILITY, SPOT NO. | D4740 | ------- |
| CORROSION, COPPER | D130 | 1a |
| CCR 10% BOTTOMS WT.% | D189 | 0.05 |
| CETANE INDEX, CALCULATED | D976 | 48 |
| PARTICULATES, mg/L | D2276 | 7.7 |
| ACCELERATED STABILITY | D2274 | ------- |
| DuPONT STABILITY | DuPont | 2 |
| DISTILLATION, IBP | D86 | 380 |
| 10% RECOVERED | D86 | 460 |
| 50% RECOVERED | D86 | 546 |
| 90% RECOVERED | D86 | 630 |
| FINAL BOILING POINT | D86 | 688 |
| RECOVERY | D86 | 99.0 |
| RESIDUE | D86 | 1.0 |
| LOSS | D86 | 0.0 |
| TRACE METALS | AA | |
| ALUMINUM, PPM | | <0.1 |
| CALCIUM, PPM | | <0.1 |
| LEAD, PPM | | <0.1 |
| SODIUM, PPM | | <0.1 |
| VANADIUM, PPM | | <0.1 |

BY Marie Calhoon
MARIE F. CALHOON, CHEMIST

# III. SUPPLEMENTAL INFORMATION
## D. Plant Operation & Maintenance Logs

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | ~~Water Truck Operation~~ Start | Stop | ~~Reason Water Truck was not operating~~ | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 1/3/00 | 7:00 | 12:00 | 8 | 1071 | 60 | 7:00 | 3:30 | 8 ½ | 51 | Sprinklers On! | | | |
| | 12:30 | 3:30 | | | | | | | | | | | |
| Tues. 1/4/00 | | | | | | | | | | | | | |
| Wed. 1/5 | | | | | | | | | | | | | |
| Thurs. 1/6 | | | | | | | | | | | | | |
| Fri. 1/7 | | | | | | | | | | | | | |
| Sat. 1/8 | | | | | | | | | | | | | |
| Sun. | | | | | | | | | | | | | |
| Weekly Totals: | | | 8 | 1071 | | | | 8.5 | 51 | | | | |

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | ~~Water Truck Operation Start~~ | ~~Stop~~ | ~~Reason Water Truck~~ was not operating | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 1/10 | 7:30 | 9:30 | 2 | 250 | 60 | 7:30 | 9:30 | 02 | 12 | | | | |
| Tues. 1/11 | D | | 0 | N/ | R | | | | | | | | |
| Wed. 1/12 | D | | 0 | W | R | | | | | | | | |
| Thurs. 1/13 | 7:30 - 12:00<br>12:30 | 4:30 | 8 ½ | 1473 | 60 | 7:30 | 4:30 | 9 | 54 | | | | |
| Fri. 1/14 | 7:30 - 12:00<br>12:30 | 4:00 | 8 | 664 | 60 | 7:30 | 4:00 | 8½ | 51 | | | | |
| Sat. | | | | | | | | | | | | | |
| Sun. | | | | | | | | | | | | | |
| **Weekly Totals:** | | | 18.5 | 2387 | | | | 19½ | 117 | | | | |

Sprinkled

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | ~~Water Truck~~ Operation ~~Start~~ | ~~Stop~~ | ~~Reason~~ ~~Water Truck~~ was ~~not operating~~ | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 1/17 | 7:30 | 12:00 | 9 | 1033 | 60 | 7:30 | 5:00 | 9 ½ | 57 | sprinklers on 9 hrs | | | |
| | 12:30 | 5:00 | | | | | | | | | | | |
| Tues. 1/18 | 7:30 - | 12:00 | 6 ½ | 1289 | 60 | 7:30 | 2:30 | 7 | 42 | sprinklers on 5 Hrs | | | |
| | 12:30 - | 2:30 | | | | | | | | | | | |
| Wed. 1/19 | ~~8:00~~ | ~~12:00~~ | ~~8~~ | ~~1033~~ | ~~60~~ | ~~8:00~~ | ~~4:30~~ | ~~8 ½~~ | ~~54~~ D | D W | | ~ | |
| | ~~12:30~~ | ~~4:30~~ | | | | | | | | | | | |
| Thurs. 1/20 | 7:30 | 12:00 | 9 | 1787 | 60 | 7:30 | 5:00 | 9 ½ | 57 | sprinklers on 7.5 hrs | | | |
| | 12:30 | 5:00 | | | | | | | | | | | |
| Fri. 1/21 | 8:00 | 12:00 | 7 ½ | 1329 | 60 | 7:00 | 4:00 | 9 | 54 | sprinklers on 4.0 hrs | | | |
| | 12:30 | 4:00 | | | | | | | | | | | |
| Sat. | | | | | | | | | | | | | |
| Sun. | | | | | | | | | | | | | |
| **Weekly Totals:** | | | 32 | 5438 | | | | 35 | 210 | | | | |

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | ~~Water Truck Operation~~ ~~Start~~ | ~~Stop~~ | ~~Reason Water Truck was not operating~~ | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 1/24 | DOWN | | | | | | | | | | | | |
| Tues. 1/25 | 1:00 | 4:30 | 3½ | 515 | 60 | 12:30 | 4:30 | 4 | 24 | | | 3 HRS | |
| Wed. 1/26 | 8:00 12:00 12:30 | 1:30 | 5 | 963 | 60 | 7:30 | 1:30 | 6 | 36 | | | 2.5 HRS | |
| Thurs. 1/27 | 9:00 12:00 1:00 | 4:30 | 6½ | 1151 | 60 | 9:00 | 4:30 | 7½ | 42 | | | 5 hrs | |
| Fri. 1/28 | 8:00 | 1:30 | 5½ | 1024 | 60 | 8:00 | 1:30 | 6 | 36 | | | 3 hrs | |
| Sat. 1/29 | Down | | | | | | | | | | | | |
| Sun. 1/30 | Down | | | | | | | | | | | | |
| Weekly Totals: | | | 20.5 | 3653 | | | | 23.5 | 138 | | | | |

Sprinkler

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | Water Truck Operation Start | Stop | Reason Water Truck was not operating | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 1/31 | | | | | | | | | | | | | |
| Tues. 2/1 | | | | | | | | | | | | | |
| Wed. 2/2 | | | | | | | | | | | | | |
| Thurs. 2/3 | | | | | | | | | | | | | |
| Fri. 2/4 | | | | | | | | | | | | | |
| Sat. 2/5 | | | | | | | | | | | | | |
| Sun. 2/6 | | | | | | | | | | | | | |
| Weekly Totals: | | | | | | | | | | | | | |

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | Water Truck Operation Start | Stop | Reason Water Truck was not operating | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 2/7 | | | | | | | | | | | | | |
| Tues. 2/8 | | | | | | | | | | | | | |
| Wed. 2/9 | | | | | | | | | | | | | |
| Thurs. 2/10 | | | | | | | | | | | | | |
| Fri. 2/11 | | | | | | | | | | | | | |
| Sat. 2/12 | | | | | | | | | | | | | |
| Sun. 2/13 | | | | | | | | | | | | | |
| Weekly Totals: | | | | | | | | | | | | | |

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | Water Truck Operation Start | Stop | Reason Water Truck was not operating | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 2/14 | | | | | | | | | | | | | |
| Tues. 2/15 | | | | | | | | | | | | | |
| Wed. 2/16 | | | | | | | | | | | | | |
| Thurs. 2/17 | | | | | | | | | | | | | |
| Fri. 2/18 | | | | | | | | | | | | | |
| Sat. 2/19 | | | | | | | | | | | | | |
| Sun. 2/20 | | | | | | | | | | | | | |
| Weekly Totals: | | | | | | | | | | | | | |

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | Water Truck Operation Start | Stop | Reason Water Truck was not operating | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 2/21 | | | | | | | | | | | | | |
| Tues. 2/22 | | | | | | | | | | | | | |
| Wed. 2/23 | | | | | | | | | | | | | |
| Thurs. 2/24 | | | | | | | | | | | | | |
| Fri. 2/25 | | | | | | | | | | | | | |
| Sat. 2/26 | | | | | | | | | | | | | |
| Sun. 2/27 | | | | | | | | | | | | | |
| Weekly Totals: | | | | | | | | | | | | | |

DOWN

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | Water Truck Operation Start | Stop | Reason Water Truck was not operating | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 2/28 | | | | | | | | | | | | | |
| Tues. 2/29 | | | | | | | | | | | | | |
| Wed. 3/1 | | | | | | | | | | | | | |
| Thurs. 3/2 | | | | | | | | | | | | | |
| Fri. 3/3 | | | | | | | | | | | | | |
| Sat. 3/4 | | | | | | | | | | | | | |
| Sun. 3/5 | | | | | | | | | | | | | |
| Weekly Totals: | | | | | | | | | | | | | |

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | Water Truck Operation Start | Stop | Reason Water Truck was not operating | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 3/6/00 | | | | | | | | | | | | | |
| Tues. 3/7/00 | | | | | | | | | | | | | |
| Wed. 3/8/00 | | | | | | | | | | | | | |
| Thurs. 3/9/00 | | | | | | | | | | | | | |
| Fri. 3/10/00 | | | | | | | | | | | | | |
| Sat. 3/11/00 | | | | | | | | | | | | | |
| Sun. 3/12/00 | | | | | | | | | | | | | |
| Weekly Totals: | | | | | | | | | | | | | |

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | Water Truck Operation Start | Stop | Reason Water Truck was not operating | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 3/13/00 | | | | | | | | | | | | | |
| Tues. 3/14/00 | | | | | | | | | | | | | |
| Wed. 3/15/00 | | | | | | | | | | | | | |
| Thurs. 3/16/00 | | | | | | | | | | | | | |
| Fri. 3/17/00 | | | | | | | | | | | | | |
| Sat. 3/18/00 | | | | | | | | | | | | | |
| Sun. 3/19/00 | | | | | | | | | | | | | |
| Weekly Totals: | | | | | | | | | | | | | |

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | Water Truck Operation Start | Stop | Reason Water Truck was not operating | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 3/20/00 | | | | | | | | | | | | | |
| Tues. 3/21/00 | | | | | | | | | | | | | |
| Wed. 3/22/00 | | | | | | | | | | | | | |
| Thurs. 3/23/00 | | | | | | | | | | | | | |
| Fri. 3/24/00 | | | | | | | | | | | | | |
| Sat. 3/25/00 | | | | | | | | | | | | | |
| Sun. 3/26/00 | | | | | | | | | | | | | |
| Weekly Totals: | | | | | | | | | | | | | |

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | Water Truck Operation Start | Stop | Reason Water Truck was not operating | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 3/27/00 | Down | | | | | | | | | | | | |
| Tues. 3/28/00 | Down | | | | | | | | | | | | |
| Wed. 3/29/00 | Down | | | | | | | | | | | | |
| Thurs. 3/30/00 | Down | | | | | | | | | | | | |
| Fri. 3/31/00 | 8:00 | 12:00 | 5 | 500 | 40 | — | | — | — | sprinkler | | 4 hrs | |
| | 12:30 | 1:30 | | | | | | | | | | | |
| Sat. 4/1/00 | Down | | | | | | | | | | | | |
| Sun. 4/2/00 | Down | | | | | | | | | | | | |
| Weekly Totals: | | | 5 | 500 | | | | | | | | | |

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | Water Truck Operation Start | Stop | Reason Water Truck was not operating | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 4/3/00 | 9:00 | 12:00 | 6 | 700 | 40 | — | | — | — | sprinkler 5.0 | | | |
| | 12:30 | 3:30 | | | | | | | | | | | |
| Tues. 4/4/00 | 7:00 | 12:00 | 8 1/2 | 800 | 40 | — | | — | — | sprinkler 7.0 | | replace the rom - | bolts in fix wire |
| | 1230 | 330 | | | | | | | | | | | |
| Wed. 4/5/00 | 7:00 | 12:00 | 8 | 750 | 40 | — | | — | — | sprinkler 8.0 | | Jaw lock | - expose wire |
| | 12:30 | 3:00 | | | | | | | | | | | |
| Thurs. 4/6/00 | 7:00 | 12:00 | 9 1/2 | 1000 | 40 | — | | — | — | sprinkler 7.5 | | — | — |
| | 12 30 | 5:00 | | | | | | | | | | | |
| Fri. 4/7/00 | 7:00 | 10:00 | 6 | 600 | 40 | — | | — | — | sprinkler 5.0 | | straight magnet | belt on |
| | 2:00 | 5 00 | | | | | | | | | | | |
| Sat. 4/8/00 | Down | | | | | | | | | | | | |
| Sun. 4/9/00 | Down | | | | | | | | | | | | |
| Weekly Totals: | | | 38 | 3850 | | | | | | | | | |

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | Water Truck Operation Start | Stop | Reason Water Truck was not operating | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 4/10/00 | 7:00 | 12:00 | 8 | 1000 | 40 | — | | — | — | sprinkles 8.0 | | plate loose on the jaw. clean up, jaw | join. |
| | 12:30 | 3:30 | | | | | | | | | | | |
| Tues. 4/11/00 | 8:30 | 12:00 | 6½ | 900 | 40 | — | | — | — | sprinkles 5.5 | | Straight the plate under the jaw. | magnet, bolt near the |
| | 12:30 | 3:30 | | | | | | | | | | | |
| Wed. 4/12/00 | 7:00 | 12:00 | 7½ | 835 | 40 | — | | — | — | sprinkles 7.5 | | clean the steel in the conveyor, set the scale, under near the | weld the plate magnet |
| | 12:30 | 3:00 | | | | | | | | | | | |
| Thurs. 4/13/00 | 7:00 | 9:00 | 2 | 186 | 40 | — | | — | — | sprinkles 4.0 | | Toggle plate | broke |
| Fri. 4/14/00 | Down | | | | | | | | | | | | |
| Sat. 4/15/00 | Down | | | | | | | | | | | | |
| Sun. 4/16/00 | Down | | | | | | | | | | | | |
| Weekly Totals: | | | 24 | 2921 | | | | | | | | | |

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

| Date | Hours of Operation Crusher Start | Stop | Total Hours of Operation Crusher | Total Material Crushed (tons) | Water Pressure to Spray Bars (PSI) | Hours of Operation Diesel Generator Start | Stop | Total Hours of Operation Generator | Total Gallons Fuel Used (Daily) | Water Truck Operation Start | Stop | Reason Water Truck was not operating | Maintenance Performed & Operating Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mon. 4/17/00 | 7:00<br>12:30 | 12:00<br>3:30 | 8 | 685 | 40 | — | | — | — | sprinkles 7.5 | | No ram, no magnet, In and Out the ram. 980 C out of fuel | |
| Tues. 4/18/00 | 7:00<br>12:30 | 12:00<br>3:30 | 8 | 1200 | 40 | — | | — | — | sprinkles 9.0 | | Crusher plug, clean Steel, secondary magnet broke | |
| Wed. 4/19/00 | 8:00 | 12:00 | 4 | 600 | 40 | — | | — | — | sprinkles 7.5 | | Clean up, fix wiper, fix magnet, clean metal. | |
| Thurs. 4/20/00 | | | | | | | | | | | | | |
| Fri. 4/21/00 | | | | | | | | | | | | | |
| Sat. 4/22/00 | | | | | | | | | | | | | |
| Sun. 4/23/00 | | | | | | | | | | | | | |
| Weekly Totals: | | | | | | | | | | | | | |

ANGELO'S RECYCLED PRODUCTS
CRUSHER @ Bearss Ave.
DAILY LOG SHEET

# INTEROFFICE MEMORANDUM

**Sensitivity:** COMPANY CONFIDENTIAL

**Date:** 13-Sep-2000 09:20am
**From:** Yi Zhu TAL
ZHU_Y
**Dept:** Air Resources Management
**Tel No:** 850/921-9558

**To:** Bruce Mitchell TAL ( MITCHELL_B )

**Subject:** Re: ARMS update for Angelo's Recycled Materials, Inc.: 7775092-002-AO.

Everything is checked. I entered the nonstack height from the data on the application. Thanks. Yi

*8/23/2000
*
*Dear Yi,
*
*I have updated and linked the above referenced project directly in ARMS.
*Please check/validate and advise. Many thanks.
*
*Bruce

# INTEROFFICE MEMORANDUM

**Sensitivity:** COMPANY CONFIDENTIAL

**Date:** 23-Aug-2000 04:09pm
**From:** Bruce Mitchell TAL MITCHELL_B
**Dept:** Air Resources Management
**Tel No:** 850/488-1344

**To:** Yi Zhu TAL ( ZHU_Y )
**To:** Clair Fancy TAL ( FANCY_C )
**To:** William Leffler TAL ( LEFFLER_W )

**Subject:** ARMS update for Angelo's Recycled Materials, Inc.: 7775092-002-AO.

8/23/2000

Dear Yi,

I have updated and linked the above referenced project directly in ARMS.
Please check/validate and advise. Many thanks.

Bruce