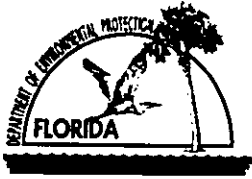


**ANGELO'S RECYCLED  
MATERIALS, INC.  
Bohringer Reclaimed Material  
Crushing Plant No.3 - Apopka**

**FDEP Construction Permit Application**

**May - 2000**

**RECEIVED**  
MAY 08 2000  
BUREAU OF AIR REGULATION



# 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: <b>ANGELO'S RECYCLED MATERIALS, INC.</b>	
2. Site Name: <b>ANGELO'S RECYCLED MATERIALS, INC. - CRUSHING UNIT NO. 3</b>	
3. Facility Identification Number: [ ] Unknown	
4. Facility Location: Street Address or Other Locator: <b>2105 Vulcan Road</b> City: <b>Apopka</b> County: <b>Orange</b> Zip Code: <b>32703</b>	
5. Relocatable Facility? [X] Yes [ ] No	6. Existing Permitted Facility? [X] Yes [ ] No

##### Application Contact

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

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

Current construction permit number: \_\_\_\_\_

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

Current construction permit number: 7770179-001-AC.

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: \_\_\_\_\_

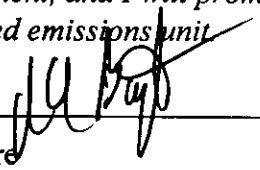
Reason for revision: \_\_\_\_\_

**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: <b>Mr. Richard Bazinet, Director of Florida Operations</b>
2. Owner/Authorized Representative Mailing Address: Organization/Firm: <b>Angelo's Recycled Materials, Inc.</b> Street Address: <b>Post Office Box 1493</b> City: <b>Largo</b> State: <b>Florida</b> Zip Code: <b>33779</b>
3. Owner/Authorized Representative Telephone Numbers: Telephone: <b>(727) 581-1544</b> Fax: <b>(727) 586-5676</b>
4. Owner/Authorized Representative Statement: <i>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</i>  Signature  Date <u>9-4-00</u>

\* Attach letter of authorization if not currently on file.

**Professional Engineer Certification**

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

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 or to revise or amend construction permit (check here [X], 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 [ ], 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.*

*[Handwritten Signature]*  
\_\_\_\_\_  
Signature

*5-4-00*  
\_\_\_\_\_  
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.	ACM2	N/A
002	Bohringer, Inc. Model #RC14 Impact Crushing Unit and Discharge Pan – where crushed material exits crushing unit and falls onto conveyor belt	ACM2	
003	Cedarapids/Simplicity – Vibrating Screening Deck (7' x 20') – used to separate crushed material into a desired size.	ACM2	
004	Crushed Material Feed Conveying System (4' x 30') , used to convey crushed material from crusher to magnet to screen conveyor	ACM2	
005	Pre-Screening Conveying System ( 4' x 50') – used to convey crushed material from magnet drop point to vibrating screener	ACM2	
006	Radial Stacker Belt No.1 (4'x 80') – drop point were material falls from belt to crushed material stockpile	ACM2	
007	Radial Stacker Belt No.2 (4'x 60') – drop point were material falls from belt to crushed material stockpile	ACM2	
008	Radial Stacker Belt No.3 (4'x 60') – drop point were material falls from belt to crushed material stockpile	ACM2	
009	Emissions from 325 H.P. Caterpillar, Model # 3412 (545kW) Diesel Generator – fired on No.2 virgin diesel fuel used to power all equipment employed by this crushing aggregate unit.	ACM2	N/A
010	Fugitive emissions from paved and unpaved roads.		
011	Fugitives from on site storage piles		

**Application Processing Fee**

Check one: [ X ] Attached - Amount: \$1250.00 [ ] Not Applicable

**Construction/Modification Information**

**1. Description of Proposed Project or Alterations:**

**This project consists of the amendment of FDEP State Wide Construction Permit No. 7770179-001-AC for a portable Aggregate Crushing & Processing Plant owned and operated by Angelo's Recycled Materials, Inc. This crushing unit is located at 2105 Vulcan Road, Apopka, Orange County, Florida. This crushing unit will serve the sole purpose of crushing and processing and reclaimed asphalt concrete that is recycled from the road, buildings, etc. that will be reused in the building or construction industry.**

**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 the amendment of FDEP State Wide Construction Permit No. 7770179-001-AC for a portable Aggregate Crushing & Processing Plant owned and operated by Angelo's Recycled Materials, Inc. This crushing unit is located at 2105 Vulcan Road, Apopka, Orange County, Florida. This crushing unit will serve the sole purpose of crushing and processing and reclaimed asphalt concrete that is recycled from the road, buildings, etc. that will be reused in the building or construction industry.**

**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: ( <b>Portable Unit – Location at present time</b> ) Zone: <b>17</b> East (km): <b>450.4</b> North (km): <b>3180.9</b>			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): <b>28°38'45" N</b> Longitude (DD/MM/SS): <b>81°28'15" W</b>			
3. Governmental Facility Code: <b>O</b>	4. Facility Status Code: <b>ACTIVE</b>	5. Facility Major Group SIC Code: <b>14</b>	6. Facility SIC(s): <b>1422</b>
7. Facility Comment (limit to 500 characters): <b>This project consists of the amendment of FDEP State Wide Construction Permit No. 7770179-001-AC for a portable Aggregate Crushing &amp; Processing Plant owned and operated by Angelo's Recycled Materials, Inc. This crushing unit is located at 2105 Vulcan Road, Apopka, Orange County, Florida. This crushing unit will serve the sole purpose of crushing and processing and reclaimed asphalt concrete that is recycled from the road, buildings, etc. that will be reused in the building or construction industry.</b>  <b>This facility is a natural non-Title V facility and will comply with all FDEP Rules and Regulations.</b>			

#### Facility Contact

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

**Facility Regulatory Classifications**

**Check all that apply:**

1. <input type="checkbox"/> Small Business Stationary Source?	<input checked="" type="checkbox"/> Unknown
2. <input checked="" type="checkbox"/> Synthetic Non-Title V Source?	
3. <input checked="" type="checkbox"/> Synthetic Minor Source of Pollutants Other than HAPs?	
4. <input checked="" type="checkbox"/> Synthetic Minor Source of HAPs?	
5. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS?	
6. <input type="checkbox"/> One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?	
7. Facility Regulatory Classifications Comment (limit to 200 characters):  <b>Natural Non-Title V Source</b>	

**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		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		
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	"

### C. FACILITY SUPPLEMENTAL INFORMATION

#### Supplemental Requirements

1. Area Map Showing Facility Location: [X ] Attached, Document ID: <u>I</u> [ ] Not Applicable [ ] Waiver Requested
2. Facility Plot Plan: [X ] Attached, Document ID: <u>II</u> [ ] Not Applicable [ ] Waiver Requested
3. Process Flow Diagram(s): [X ] Attached, Document ID: <u>III</u> [ ] Not Applicable [ ] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [X ] Attached, Document ID: <u>IV</u> [ ] Not Applicable [ ] Waiver Requested
5. Supplemental Information for Construction Permit Application: [X ] Attached, Document ID: <u>VII</u> [ ] Not Applicable
6. Supplemental Requirements Comment:

**EMISSIONS ID. NO. 001**

**Cedarapids/Simplicity - 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) <input type="checkbox"/> 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). <input type="checkbox"/> 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. <input checked="" type="checkbox"/> 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): <b>Cedarapids/Simplicity Inc. – Raw Material Receiving Hopper / Vibrating Grizzly Feeder System – used to feed uncrushed material to crusher.</b>		
3. Emissions Unit Identification Number: <span style="float: right;"><input type="checkbox"/> No ID</span> ID: <b>001</b> <span style="float: right;"><input type="checkbox"/> ID Unknown</span>		
3. Emissions Unit Status Code: <b>ACTIVE</b>	4. Initial Startup Date: <b>UNKNOWN</b>	5. Emissions Unit Major Group SIC Code: <b>14</b>
6. Emissions Unit Comment: (Limit to 500 Characters):  <p style="text-align: center;"><b>THIS AGGREGATE PROCESSING UNIT WILL CRUSH AND SCREEN RECLAIMED ASPHALT AND CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY EMISSIONS OCCUR THE MATERIAL INTRODUCED TO THE GRIZZLY FEEDER WILL BE SPRAYED WITH WATER IN IT'S STOCKPILE AND AT THE FEEDER, AS TO CONTROL ANY EMISSIONS THAT MAY BE GENERATED.</b></p>		

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 IN IT'S STOCKPILES AND IN THE FEEDER 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/SIMPLICITY, INC.

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 dampening of materials in the stockpile and in the grizzly feeder / receiving to control any emissions that may be generated.**

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? <b>001 (Grizzly Feeder)</b>		2. Emission Point Type Code: <b>4</b>	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): <b>NONE</b>			
3. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <b>NONE</b>			
4. Discharge Type Code: <b>F</b>	6. Stack Height: <b>feet</b>	7. Exit Diameter: <b>feet</b>	
8. Exit Temperature: <b>°F</b>	9. Actual Volumetric Flow Rate: <b>acfm</b>	10. Water Vapor: <b>%</b>	
11. Maximum Dry Standard Flow Rate: <b>dscfm</b>		12. Nonstack Emission Point Height: <b>~15 FEET</b>	
13. Emission Point UTM Coordinates: <b>(Relocatable source figures below are location now)</b> Zone: <b>17</b> East (km): <b>450.4</b> North (km): <b>3180.9</b>			
14. Emission Point Comment (limit to 200 characters):  <b>EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL</b>			



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):  <b>Cedarapids/Simplicity, Inc. – Raw Material Receiving Hopper / Vibrating Grizzly Feeder System – used to feed uncrushed material to crusher.</b>		
1. Source Classification Code (SCC): <b>30502511</b>		3. SCC Units: <b>TONS OF PRODUCT PROCESSED</b>
4. Maximum Hourly Rate: <b>200 tph</b>	5. Maximum Annual Rate: <b>624,000 ton</b>	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: <b>NA</b>	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: <b>PM, PM10</b>		2. Pollutant Regulatory Code: <b>WP</b>	
3. Primary Control Device Code: <b>061</b>	4. Secondary Control Device Code: <b>099</b>	5. Total Percent Efficiency of Control: <b>80%</b>	
6. Potential Emissions: <b>PM10 = 0.42 lb/hr &amp; 0.65 ton/hr PM = 0.88 lb/hr &amp; 1.36 ton/hr</b>		7. Synthetically Limited? [ <b>X</b> ]	
8. Emission Factor: <b>0.0021 lb/ton Table 11.19.2-2 &amp; footnote c</b>  Reference: <b>AP-42</b>		8. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters):  $PM_{10} = (200 \text{ lb/ton})(0.0021 \text{ lb/ton}) = 0.42 \text{ lb/hr}$ $PM_{10_{\text{yearly}}} [(200 \text{ lb/hr})(3120 \text{ hr/yr})(0.0021 \text{ lb/ton})] / 2000 \text{ lb/ton} = 0.65 \text{ ton/yr}$  $PM = [(200 \text{ lb/ton})(0.0021 \text{ lb/ton})] (2.1) = 0.88 \text{ lb/hr}$  $PM_{10_{\text{yearly}}} [(200 \text{ lb/hr})(3120 \text{ hr/yr})(0.0021 \text{ lb/ton})] / 2000 \text{ lb/ton} (2.1) = 1.36 \text{ ton/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): <b>Raw Material Receiving Hopper / Grizzly Feeder – subject to 40 CFR 60, subpart 000 rules and regulations.</b>			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

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



G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>III</u> [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u>V</u> [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: _____ [ ] Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>VI</u> [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application <input checked="" type="checkbox"/> Attached, Document ID: <u>VII</u> [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

**EMISSIONS ID. NO. 002**

**Bohringer Model RC14 Impact 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) <input type="checkbox"/> 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). <input type="checkbox"/> 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. <input checked="" type="checkbox"/> 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): <b>Bohringer, Inc. Model #RC14 Impact Crusher and Discharge Pan – where crushed material exits crushing unit and falls onto conveyor belt.</b>		
3. Emissions Unit Identification Number: ID: 002		<input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown
10. Emissions Unit Status Code: <b>ACTIVE</b>	11. Initial Startup Date:  <b>UNKNOWN</b>	12. Emissions Unit Major Group SIC Code:  <b>14</b>
13. Emissions Unit Comment: (Limit to 500 Characters):  <b>THIS AGGREGATE PROCESSING UNIT WILL CRUSH AND SCREEN RECLAIMED ASPHALT AND CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY EMISSIONS OCCUR THE MATERIAL INTRODUCED TO THE GRIZZLY FEEDER WILL BE SPRAYED WITH WATER IN IT'S STOCKPILE AND AT THE FEEDER, AS TO CONTROL ANY EMISSIONS THAT MAY BE GENERATED.</b>		

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 IN IT'S STOCKPILE AND IN THE GRIZZLY FEEDER 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: **BOHRINGER, INC.**

Model Number: **RC14**

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.**

## 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): 450.4                      North (km): 3180.9			
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):  <b>Bohringer, Inc. – Portable Impact Crushing Unit Model RC14 – Crusher Discharge Pan/Belt. (Material Handling – Emissions related to dropping material out of crusher onto belt.)</b>		
2. Source Classification Code (SCC): <b>30502003</b>		3. SCC Units: <b>TONS OF PRODUCT PROCESSED</b>
4. Maximum Hourly Rate: <b>200 tph</b>	10. Maximum Annual Rate: <b>624,000 ton</b>	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: <b>NA</b>	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: <b>PM, PM10</b>		2. Pollutant Regulatory Code: <b>WP</b>	
3. Primary Control Device Code: <b>061</b>	4. Secondary Control Device Code: <b>099</b>	5. Total Percent Efficiency of Control: <b>80%</b>	
6. Potential Emissions: <b>PM10 = 0.48 lb/hr &amp; 0.75 ton/hr PM = 1.01 lb/hr &amp; 1.57 ton/hr</b>		7. Synthetically Limited? <b>[ X ]</b>	
8. Emission Factor: <b>0.0024 lb/ton</b> Reference: <b>AP-42 (Table 11.19.2-2 controlled) and footnote © for PM Emissions</b>		15. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters):  $PM_{10} = (200 \text{ lb/ton})(0.0024 \text{ lb/ton}) = 0.48 \text{ lb/hr}$ $PM_{10, \text{yearly}} [(200 \text{ lb/hr})(3120 \text{ hr/yr})(0.0024 \text{ lb/ton})] / 2000 \text{ lb/ton} = 0.75 \text{ ton/yr}$  $PM = [(200 \text{ lb/ton})(0.0024 \text{ lb/ton})] (2.1) = 1.01 \text{ lb/hr}$  $PM_{10, \text{yearly}} [(200 \text{ lb/hr})(3120 \text{ hr/yr})(0.0024 \text{ lb/ton})] / 2000 \text{ lb/ton} (2.1) = 1.57 \text{ ton/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): <b>Crusher and Discharge Pan – subject to 40 CFR 60, subpart 000 rules and regulations.</b>			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code: <b>40 CFR 60, subpart 000</b>	2. Future Effective Date of Allowable Emissions: <b>Initial Compliance Test</b>
3. Requested Allowable Emissions and Units: <b>&lt; 15 % Opacity</b>	4. Equivalent Allowable Emissions:  lb/hour                      tons/year
5. Method of Compliance (limit to 60 characters): <b>Initial and Annual EPA Method 9 Compliance Testing</b>	
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: <b>VE</b>	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Requested Allowable Opacity: Normal Conditions: <b>&lt;15%</b> Exceptional Conditions: <b>&lt;15%</b> Maximum Period of Excess Opacity Allowed: <b>0 min/hour</b>	
4. Method of Compliance: <b>Initial and Annual Visible Emissions Compliance Testing.</b>	
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: <b>NONE</b>	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> 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):    	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u> III </u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u> V </u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input checked="" type="checkbox"/> Attached, Document ID: <u> VI </u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input checked="" type="checkbox"/> Attached, Document ID: <u> VII </u> <input type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

**EMISSIONS ID. NO. 003**

**Cedarapids/Simplicity 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) <input type="checkbox"/> 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). <input type="checkbox"/> 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. <input checked="" type="checkbox"/> 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): <b>Cedarapids, Inc. – Triple Deck Vibrating Screener – Vibrating Screener to Screener Discharge Conveying System (drop point from Vibrating Screener to Screener Discharge Conveying System)</b>		
3. Emissions Unit Identification Number: ID: 003		<input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown
17. Emissions Unit Status Code: <b>ACTIVE</b>	18. Initial Startup Date: <b>UNKNOWN</b>	19. Emissions Unit Major Group SIC Code: <b>14</b>
20. Emissions Unit Comment: (Limit to 500 Characters):  <b>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 being dampened in it's stockpile and in the grizzly feeder.</b>		

**Cedarapids – Triple Deck 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 two Radial Stacker Belts are controlled by a water spray bar system on a as needed basis, mounted in this area. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from being dampened in it's stockpile and in the grizzly feeder.**

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

**Emissions Unit Details**

1. Package Unit: **TRIPLE DECK VIBRATING SCREENER**

Manufacturer: **CEDARAPIDS**

Model Number: **7 x 20**

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**

21. 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 two Radial Stacker Belts are controlled by a water spray bar system on a as needed basis, mounted in this area. This material is still moist enough as to cause little to no fugitive emissions at this drop point. This material is still moist from being dampened in it's stockpile and in the grizzly feeder.**

Cedarapids – Triple Deck Vibrating Screener

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

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? <b>003 (Vibrating Screener)</b>		11. Emission Point Type Code: <b>4</b>	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): <b>NONE</b>			
12. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <b>NONE</b>			
13. Discharge Type Code: <b>F</b>	6. Stack Height: <b>feet</b>	7. Exit Diameter: <b>feet</b>	
8. Exit Temperature: <b>°F</b>	9. Actual Volumetric Flow Rate: <b>acfm</b>	10. Water Vapor: <b>%</b>	
11. Maximum Dry Standard Flow Rate: <b>dscfm</b>		12. Nonstack Emission Point Height: <b>~10 FEET</b>	
13. Emission Point UTM Coordinates: <b>(unit figures below are W. Palm location)</b> <b>Zone: 17                      East (km): 450.4                      North (km): 3180.9</b>			
14. Emission Point Comment (limit to 200 characters):  <b>EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL.</b>			



## Cedarapids – Triple Deck Vibrating Screener

## C. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type) (limit to 500 characters):  <b>Cedarapids, Inc. – Portable Crushing Unit – Triple Deck 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.)</b>		
3. Source Classification Code (SCC): <b>30502003</b>		3. SCC Units: <b>TONS OF PRODUCT PROCESSED</b>
4. Maximum Hourly Rate: <b>200 tph</b>	14. Maximum Annual Rate: <b>624,000 ton</b>	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: <b>NA</b>	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: <b>PM, PM10</b>		2. Pollutant Regulatory Code: <b>WP</b>	
3. Primary Control Device Code: <b>061</b>	4. Secondary Control Device Code: <b>099</b>	5. Total Percent Efficiency of Control: <b>80%</b>	
6. Potential Emissions: <b>PM10 = 0.42 lb/hr, 0.96 ton/yr</b> <b>PM = 0.88 lb/hr, 1.38 ton/yr</b>		7. Synthetically Limited? <b>[ X ]</b>	
8. Emission Factor: <b>0.0021 lb/ton</b> Reference: <b>AP-42 (Table 11.19.2-2 controlled) and footnote © for PM Emissions</b>		22. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters):  $\text{PM10}_{\text{yearly}} = [(200 \text{ ton/hr})(3120 \text{ hr/yr})(0.0021 \text{ lb/ton})] / (2000 \text{ lb/ton}) = 0.66 \text{ ton/yr}$ $\text{PM10}_{\text{hour}} = [(200 \text{ ton/hr})(0.0021 \text{ lb/ton})] = 0.42 \text{ lb/hr}$ $\text{TSP}_{\text{yearly}} = [(200 \text{ ton/hr})(3120 \text{ hr/yr})(0.0021 \text{ lb/ton})] (2.1) / (2000 \text{ lb/ton}) = 1.38 \text{ ton/yr}$ $\text{TSP}_{\text{hour}} = [(200 \text{ ton/hr})(0.0021 \text{ lb/ton})] (2.1) = 0.88 \text{ lb/hr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): <b>Vibrating Screener – subject to 40 CFR 60, subpart 000 rules and regulations.</b>			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code: <b>40 CFR 60, subpart 000</b>	2. Future Effective Date of Allowable Emissions: <b>Initial Compliance Test</b>
3. Requested Allowable Emissions and Units: <b>&lt; 10 % Opacity</b>	4. Equivalent Allowable Emissions: <b>lb/hour                      tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Initial and Annual EPA Method 9 Compliance Testing</b>	
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: <b>VE</b>	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: <b>&lt;10%</b> Exceptional Conditions: <b>&lt;10%</b> Maximum Period of Excess Opacity Allowed: <b>0</b> min/hour	
4. Method of Compliance: <b>Initial and Annual Visible Emissions Compliance Testing.</b>	
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: <b>NONE</b>	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):	

Cedarapids Vibrating Screener

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>III</u> [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u>V</u> [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: _____ [ ] Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>VI</u> [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application <input checked="" type="checkbox"/> Attached, Document ID: <u>VII</u> [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID: _____ [X] Not Applicable
10. Supplemental Requirements Comment:

**EMISSIONS ID. NO. 004**

**Crushed Material Feed Conveying System**

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) <input type="checkbox"/> 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). <input type="checkbox"/> 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. <input checked="" type="checkbox"/> 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): <b>Feed Conveyor Transfer Point – Transfer Point where metal is extracted from crushed material drops to the pre-screener conveyor belt. (drop point from feed conveyor belt to pre-screener)</b>		
3. Emissions Unit Identification Number: ID: 004		<input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown
24. Emissions Unit Status Code: ACTIVE	25. Initial Startup Date: UNKNOWN	26. Emissions Unit Major Group SIC Code: 14
27. Emissions Unit Comment: (Limit to 500 Characters):  <b>The fugitive emissions generated from this drop point where crushed material leaves the feed conveyor, any metal is extracted by a magnet, and is dropped onto a the pre-screener transfer belt. Any emissions generated at this point will be controlled by the water spray bar system on a as needed basis, mounted in this area if needed. 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 it's stockpile.</b>		

**Material Feed Conveyor Drop 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 feed conveyor and is dropped onto the pre-screener belt will be controlled by the water spray bar system on a as needed basis, mounted in this area. 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 it's stockpile.

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

**Emissions Unit Details**

1. Package Unit: **Material Feed Conveyor Drop Point to Pre-Screener Conveyor**  
 Manufacturer: **Bohringer** Model Number: **RC14**

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**

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

The fugitive emissions generated from this drop point where crushed material leaves the feed conveyor and is dropped onto the pre-screener belt will be controlled by the water spray bar system on a as needed basis, mounted in this area. 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 it's stockpile.

## Material Feed Conveyor Drop Point

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

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? <b>004 (Material Conveyor Drop Pt.)</b>		15. Emission Point Type Code: <b>4</b>	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): <b>NONE</b>			
16. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <b>NONE</b>			
17. Discharge Type Code: <b>F</b>	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:  <b>~4 FEET</b>	
13. Emission Point UTM Coordinates: <b>(unit figures below are for Vulcan Road Location)</b>  Zone: <b>17</b> East (km): <b>450.4</b> North (km): <b>3180.9</b>			
14. Emission Point Comment (limit to 200 characters):  <b>EMISSIONS AT THIS DROP POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL.</b>			



Material Feed Conveyor Drop Point

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment   of

1. Segment Description (Process/Fuel Type) (limit to 500 characters):  <b>Bohringer, Inc. – Portable Crushing Unit – Material Feed Conveyor Drop Point to Pre-Screener Conveyor. (Material Handling - Emissions related to conveying of reclaimed crushed material from one belt to another)</b>		
4. Source Classification Code (SCC): <b>30502006</b>		3. SCC Units: <b>TONS OF PRODUCT PROCESSED</b>
4. Maximum Hourly Rate: <b>200 tph</b>	18. Maximum Annual Rate: <b>624,000 ton</b>	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: <b>NA</b>	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: <b>PM, PM10</b>		2. Pollutant Regulatory Code: <b>WP</b>	
3. Primary Control Device Code: <b>061</b>	4. Secondary Control Device Code: <b>099</b>	5. Total Percent Efficiency of Control: <b>80%</b>	
6. Potential Emissions: <b>PM10 = 0.28 lb/hr, 0.44 ton/yr</b> <b>PM = 0.59 lb/hr, 0.92 ton/yr</b>		7. Synthetically Limited? <b>[ X ]</b>	
8. Emission Factor: <b>0.0014 lb/ton</b>  Reference: <b>AP-42 (Table 11.19.2-2 uncontrolled) and footnote © for PM Emissions (worst case scenario)</b>		28. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters):  $\text{PM10}_{\text{yearly}} = [(200 \text{ ton/hr})(3120 \text{ hr/yr})(0.0014 \text{ lb/ton})] / (2000 \text{ lb/ton}) = 0.44 \text{ ton/yr}$ $\text{PM10}_{\text{hour}} = [(200 \text{ ton/hr})(0.0014 \text{ lb/ton})] = 0.28 \text{ lb/hr}$ $\text{TSP}_{\text{yearly}} = [(200 \text{ ton/hr})(3120 \text{ hr/yr})(0.0014 \text{ lb/ton})] (2.1) / (2000 \text{ lb/ton}) = 0.92 \text{ ton/yr}$ $\text{TSP}_{\text{hour}} = [(200 \text{ ton/hr})(0.0014 \text{ lb/ton})] (2.1) = 0.59 \text{ lb/hr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): <b>Material Feed Drop Point – subject to 40 CFR 60, subpart 000 rules and regulations.</b>			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code: <b>40 CFR 60, subpart 000</b>	2. Future Effective Date of Allowable Emissions: <b>Initial Compliance Test</b>
3. Requested Allowable Emissions and Units: <b>&lt; 10 % Opacity</b>	4. Equivalent Allowable Emissions:  lb/hour                      tons/year
5. Method of Compliance (limit to 60 characters): <b>Initial and Annual EPA Method 9 Compliance Testing</b>	
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: <b>VE</b>	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Requested Allowable Opacity: Normal Conditions: <b>&lt;10%</b> Exceptional Conditions: <b>&lt;10%</b> Maximum Period of Excess Opacity Allowed: <b>0</b> min/hour	
4. Method of Compliance: <b>Initial and Annual Visible Emissions Compliance Testing.</b>	
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: <b>NONE</b>	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> 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):  	

## Material Feed Conveyor – Drop Point

## G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>III</u> [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u>V</u> [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: _____ [ ] Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>VI</u> [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application <input checked="" type="checkbox"/> Attached, Document ID: <u>VII</u> [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID: _____ [X] Not Applicable
10. Supplemental Requirements Comment:

**EMISSIONS ID. NO. 005**  
**Pre-Screening Conveying System**

**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) <input type="checkbox"/> 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). <input type="checkbox"/> 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. <input checked="" type="checkbox"/> 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.		
29. Description of Emissions Unit Addressed in This Section (limit to 60 characters): <b>Pre-Screening Conveyor Drop – Drop Point where crushed material drops to the pre-screener conveyor belt to vibrating screener.</b>		
3. Emissions Unit Identification Number: ID: <b>005</b>		<input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown
30. Emissions Unit Status Code: <b>ACTIVE</b>	31. Initial Startup Date: <b>UNKNOWN</b>	32. Emissions Unit Major Group SIC Code: <b>14</b>
33. Emissions Unit Comment: (Limit to 500 Characters):  <b>The fugitive emissions generated from this drop point where crushed material leaves the pre-screener and is dropped onto the vibrating triple deck screener. Any emissions generated at this point will be controlled by the water spray bar system on a as needed basis, mounted in this area of the previous drop point if needed. 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 it's stockpile.</b>		



## Pre-Screening Material Conveyor Drop Point

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

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? 005 (Pre-Screener Conveyor Drop Pt.)		19. Emission Point Type Code: 4	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): NONE			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NONE			
5. 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: (unit figures below are for Vulcan Road Location) Zone: 17                      East (km): 450.4                      North (km): 3180.9			
14. Emission Point Comment (limit to 200 characters):  <b>EMISSIONS AT THIS DROP POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL.</b>			



**C. SEGMENT (PROCESS/FUEL) INFORMATION**

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type) (limit to 500 characters):  <b>Bohringer, Inc. – Portable Crushing Unit – Pre-Screener Feed Conveyor Drop Point to Triple Deck Vibrating Screener . (Material Handling - Emissions related to conveying of reclaimed crushed material from one belt to another object.)</b>		
5. Source Classification Code (SCC): <b>30502006</b>		3. SCC Units: <b>TONS OF PRODUCT PROCESSED</b>
4. Maximum Hourly Rate: <b>200 tph</b>	20. Maximum Annual Rate: <b>624,000 ton</b>	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: <b>NA</b>	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: <b>PM, PM10</b>		2. Pollutant Regulatory Code: <b>WP</b>	
3. Primary Control Device Code: <b>061</b>	4. Secondary Control Device Code: <b>099</b>	5. Total Percent Efficiency of Control: <b>80%</b>	
6. Potential Emissions: <b>PM10 = 0.28 lb/hr, 0.44 ton/yr</b> <b>PM = 0.59 lb/hr, 0.92 ton/yr</b>		7. Synthetically Limited? [ <b>X</b> ]	
8. Emission Factor: <b>0.0014 lb/ton</b>  Reference: <b>AP-42 (Table 11.19.2-2 uncontrolled) and footnote © for PM Emissions (worst case scenario)</b>		34. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters):  $\text{PM10}_{\text{yearly}} = [(200 \text{ ton/hr})(3120 \text{ hr/yr})(0.0014 \text{ lb/ton})] / (2000 \text{ lb/ton}) = 0.44 \text{ ton/yr}$ $\text{PM10}_{\text{hour}} = [(200 \text{ ton/hr})(0.0014 \text{ lb/ton})] = 0.28 \text{ lb/hr}$ $\text{TSP}_{\text{yearly}} = [(200 \text{ ton/hr})(3120 \text{ hr/yr})(0.0014 \text{ lb/ton})] (2.1) / (2000 \text{ lb/ton}) = 0.92 \text{ ton/yr}$ $\text{TSP}_{\text{hour}} = [(200 \text{ ton/hr})(0.0014 \text{ lb/ton})] (2.1) = 0.59 \text{ lb/hr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): <b>Material Feed Drop Point – subject to 40 CFR 60, subpart 000 rules and regulations.</b>			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code: <b>40 CFR 60, subpart 000</b>	2. Future Effective Date of Allowable Emissions: <b>Initial Compliance Test</b>
3. Requested Allowable Emissions and Units: <b>&lt; 10 % Opacity</b>	4. Equivalent Allowable Emissions:  lb/hour                      tons/year
5. Method of Compliance (limit to 60 characters): <b>Initial and Annual EPA Method 9 Compliance Testing</b>	
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: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Requested Allowable Opacity: <b>Normal Conditions: &lt;10%</b> Exceptional Conditions: <10% Maximum Period of Excess Opacity Allowed: 0 min/hour	
4. Method of Compliance: <b>Initial and Annual Visible Emissions Compliance Testing.</b>	
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: NONE	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):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>III</u> [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u>V</u> [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>VI</u> [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application <input checked="" type="checkbox"/> Attached, Document ID: <u>VII</u> [ ] Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

**EMISSIONS ID. NO. 006**

**Emissions From Radial Stacker Belt No.1**

**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**

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input type="checkbox"/> 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).</p> <p><input type="checkbox"/> 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.</p> <p><input checked="" type="checkbox"/> 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.</p>		
<p>2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p><b>Drop Point from Radial Stacker No.1 to Stockpile – where crushed material leaves radial stacker belt to stockpile</b></p>		
<p>3. Emissions Unit Identification Number: <input type="checkbox"/> No ID                  ID: <b>006</b></p>		
<p>35. Emissions Unit Status Code: <b>ACTIVE</b></p>	<p>36. Initial Startup Date: <b>UNKNOWN</b></p>	<p>37. Emissions Unit Major Group SIC Code: <b>14</b></p>
<p>38. Emissions Unit Comment: (Limit to 500 Characters):</p> <p><b>CRUSHED RECLAIMED ASPHALT &amp; 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 &amp; CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY OCCUR THE MATERIAL WILL BE SPRAYED AND DAMPENED THROUGHT THE CRUSHING AND PROCESSING PROCESS AS TO CONTROL ANY EMISSIONS GENERATED.</b></p>		

Emissions Unit Information Section 6 of 11  
 Radial Stacker Conveyor No.1 Drop Point to Storage Piles  
Emissions Unit Control Equipment

21. Control Equipment/Method Description (limit to 200 characters per device or method):
<b>ANY EMISSIONS THAT MAY BE GENERATED UNIT ARE CONTROLLED AT THIS FACILITY BY DAMPENING MATERIAL THROUGHOUT THE CRUSHING AND AGGREGATE PROCESSING PROCESS AS NEEDED TO CONTROL GENERATION OF FUGITIVES.</b>
2. Control Device or Method Code(s): <b>061,099</b>

Emissions Unit Details

1. Package Unit: <b>RADIAL STACKER BELT NO.1</b>	Manufacturer: <b>SELF FABRICATED</b>	Model Number: <b>NA</b>
2. Generator Nameplate Rating:	<b>MW</b>	
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:	<b>200 TPH AS RAW (UNCRUSHED) RECLAIMED ASPHALT OR CONCRETE</b>	
4. Maximum Production Rate:	<b>200 TPH AS RECLAIMED CRUSHED AND SCREENED ASPHALT (RAP) OR CONCRETE</b>	
5. Requested Maximum Operating Schedule:	10 hours/day	6 days/week
	52 weeks/year	3120 hours/year

39. Operating Capacity/Schedule Comment (limit to 200 characters):
<b>CRUSHED RECLAIMED ASPHALT &amp; 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 &amp; CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY OCCUR THE MATERIAL WILL BE SPRAYED AND DAMPENED THROUGHT THE CRUSHING AND PROCESSING PROCESS AS TO CONTROL ANY EMISSIONS GENERATED. THIS RADIAL STACKER WILL NOT ALWAYS CARRY THE FULL LOAD OF 200 TPH AS THE OTHER RADIAL STACKER WILL CARRY PART OF THIS LOAD DEPENDENT ON MATERIAL SIZING.</b>

## Radial Stacker Conveyor No.1 Drop Point to Storage Piles

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

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? <b>006 (Radial Stacker)</b>		22. Emission Point Type Code: <b>4</b>	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): <b>NONE</b>			
23. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <b>NONE</b>			
24. Discharge Type Code: <b>F</b>	6. Stack Height: <b>feet</b>	7. Exit Diameter: <b>feet</b>	
8. Exit Temperature: <b>°F</b>	9. Actual Volumetric Flow Rate: <b>acfm</b>	10. Water Vapor: <b>%</b>	
11. Maximum Dry Standard Flow Rate: <b>dscfm</b>		12. Nonstack Emission Point Height: <b>~2-15 FEET</b>	
13. Emission Point UTM Coordinates: ( <b>portable facility – figure below Vulcan Road location</b> ) Zone: <b>17</b> East (km): <b>450.4</b> North (km): <b>3180.9</b>			
14. Emission Point Comment (limit to 200 characters):  <b>EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL.</b>			



Emissions Unit Information Section  6  of  11   
 Radial Stacker Conveyor No.1 Drop Point to Storage Piles

C. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type) (limit to 500 characters):  <b>Self Fabricated – Radial Stacker Belt No.1 – Material Drop Point to Stockpile (Material Handling – Emissions related to conveying and dropping of material.)</b>		
6. Source Classification Code (SCC): <b>30502006</b>		3. SCC Units: <b>TONS OF PRODUCT PROCESSED</b>
4. Maximum Hourly Rate: <b>200 tph</b>	25. Maximum Annual Rate: <b>624,000 ton</b>	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: <b>NA</b>	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: <b>PM, PM10</b>		2. Pollutant Regulatory Code: <b>WP</b>	
3. Primary Control Device Code: <b>061</b>	4. Secondary Control Device Code: <b>099</b>	5. Total Percent Efficiency of Control: <b>80%</b>	
6. Potential Emissions: <b>PM10 = 0.28 lb/hr &amp; 0.44 ton/hr</b> <b>PM = 0.59 lb/hr &amp; 0.92 ton/hr</b>		7. Synthetically Limited? [ <b>X</b> ]	
8. Emission Factor: <b>0.0014 lb/ton</b> Reference: <b>AP-42 (Table 11.19.2-2 uncontrolled) and footnote © for PM Emissions (worst case scenario)</b>		40. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters):  $PM_{10} = (200 \text{ lb/ton})(0.0014 \text{ lb/ton}) = 0.28 \text{ lb/hr}$ $PM_{10, \text{yearly}} [(200 \text{ lb/hr})(3120 \text{ hr/yr})(0.0014 \text{ lb/ton})] / 2000 \text{ lb/ton} = 0.44 \text{ ton/yr}$  $PM = [(200 \text{ lb/ton})(0.0014 \text{ lb/ton})] (2.1) = 0.59 \text{ lb/hr}$  $PM_{10, \text{yearly}} [(200 \text{ lb/hr})(3120 \text{ hr/yr})(0.0014 \text{ lb/ton})] / 2000 \text{ lb/ton} (2.1) = 0.92 \text{ ton/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): <b>Radial Stacker Belt – subject to 40 CFR 60, subpart 000 rules and regulations.</b>			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

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

EMISSIONS UNIT NO. 6 of 11  
Radial Stacker Belt No.1 – Drop Point to Storage Pile

**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: [X] Rule                      [ ] Other
3. Requested Allowable Opacity: Normal Conditions: <10%      Exceptional Conditions: <10% Maximum Period of Excess Opacity Allowed: 0 min/hour	
4. Method of Compliance: <b>Initial and Annual Visible Emissions Compliance Testing.</b>	
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: NONE	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):	

**EMISSIONS UNIT NO. 6 of 11**

**Radial Stacker Belt No.1 – Drop Point to Storage Pile**

**G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**

**Supplemental Requirements**

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>III</u> [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u>V</u> [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: _____ [ ] Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>VI</u> [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application <input checked="" type="checkbox"/> Attached, Document ID: <u>VII</u> [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> 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) <input type="checkbox"/> 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). <input type="checkbox"/> 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. <input checked="" type="checkbox"/> 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):  <b>Drop Point from Radial Stacker No.2 to Stockpile – where crushed material leaves radial stacker belt to stockpile</b>		
3. Emissions Unit Identification Number: ID: 007		<input type="checkbox"/> No ID
41. Emissions Unit Status Code: <b>ACTIVE</b>	42. Initial Startup Date: <b>UNKNOWN</b>	43. Emissions Unit Major Group SIC Code: <b>14</b>
44. Emissions Unit Comment: (Limit to 500 Characters):  <b>CRUSHED RECLAIMED ASPHALT &amp; 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 CONVEY RECLAIMED ASPHALT &amp; CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY OCCUR THE MATERIAL WILL BE SPRAYED AND DAMPENED THROUGHT THE CRUSHING AND PROCESSING PROCESS AS TO CONTROL ANY EMISSIONS GENERATED.</b>		

Emissions Unit Information Section 7 of 11  
**Radial Stacker Conveyor No.2 Drop Point to Storage Piles**  
**Emissions Unit Control Equipment**

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

**ANY EMISSIONS THAT MAY BE GENERATED UNIT ARE CONTROLLED AT THIS FACILITY BY DAMPENING MATERIAL THROUGHOUT THE CRUSHING AND AGGREGATE PROCESSING PROCESS AS NEEDED TO CONTROL GENERATION OF FUGITIVES.**

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

**Emissions Unit Details**

1. Package Unit: <b>RADIAL STACKER BELT NO.2</b>		
Manufacturer: <b>SELF FABRICATED</b>	Model Number: <b>NA</b>	
2. Generator Nameplate Rating:	<b>MW</b>	
3. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

**Emissions Unit Operating Capacity and Schedule**

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

45. Operating Capacity/Schedule Comment (limit to 200 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 CONVEY RECLAIMED ASPHALT & CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY OCCUR THE MATERIAL WILL BE SPRAYED AND DAMPENED THROUGHOUT THE CRUSHING AND PROCESSING PROCESS AS TO CONTROL ANY EMISSIONS GENERATED. THIS RADIAL STACKER WILL NOT ALWAYS CARRY THE FULL LOAD OF 200 TPH AS THE OTHER RADIAL STACKER WILL CARRY PART OF THIS LOAD DEPENDENT ON MATERIAL SIZING.**

## Radial Stacker Conveyor No.2 Drop Point to Storage Piles

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

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? <b>007(Radial Stacker#2)</b>		27. Emission Point Type Code: <b>4</b>	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): <b>NONE</b>			
28. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <b>NONE</b>			
29. Discharge Type Code: <b>F</b>	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: <b>~2-15 FEET</b>	
13. Emission Point UTM Coordinates: ( <b>portable facility – figure below Vulcan Road location</b> ) Zone: <b>17</b> East (km): <b>450.4</b> North (km): <b>3180.9</b>			
14. Emission Point Comment (limit to 200 characters):  <b>EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL.</b>			



**C. SEGMENT (PROCESS/FUEL) INFORMATION**

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type) (limit to 500 characters):  <b>Self Fabricated – Radial Stacker Belt No.2– Material Drop Point to Stockpile (Material Handling – Emissions related to conveying and dropping of material.)</b>		
7. Source Classification Code (SCC): <b>30502006</b>		3. SCC Units: <b>TONS OF PRODUCT PROCESSED</b>
4. Maximum Hourly Rate: <b>200 tph</b>	30. Maximum Annual Rate: <b>624,000 ton</b>	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: <b>NA</b>	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: <b>PM, PM10</b>		2. Pollutant Regulatory Code: <b>WP</b>	
3. Primary Control Device Code: <b>061</b>	4. Secondary Control Device Code: <b>099</b>	5. Total Percent Efficiency of Control: <b>80%</b>	
6. Potential Emissions: <b>PM10 = 0.28 lb/hr &amp; 0.44 ton/hr PM = 0.59 lb/hr &amp; 0.92 ton/hr</b>		7. Synthetically Limited? <b>[ X ]</b>	
8. Emission Factor: <b>0.0014 lb/ton</b> Reference: <b>AP-42 (Table 11.19.2-2 uncontrolled) and footnote © for PM Emissions (worst case scenario)</b>		46. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters):  $PM_{10} = (200 \text{ lb/ton})(0.0014 \text{ lb/ton}) = 0.28 \text{ lb/hr}$ $PM_{10_{\text{yearly}}} [(200 \text{ lb/hr})(3120 \text{ hr/yr})(0.0014 \text{ lb/ton})] / 2000 \text{ lb/ton} = 0.44 \text{ ton/yr}$  $PM = [(200 \text{ lb/ton})(0.0014 \text{ lb/ton})] (2.1) = 0.59 \text{ lb/hr}$  $PM_{10_{\text{yearly}}} [(200 \text{ lb/hr})(3120 \text{ hr/yr})(0.0014 \text{ lb/ton})] / 2000 \text{ lb/ton} (2.1) = 0.92 \text{ ton/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): <b>Radial Stacker Belt – subject to 40 CFR 60, subpart 000 rules and regulations.</b>			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code: <b>40 CFR 60, subpart 000</b>	2. Future Effective Date of Allowable Emissions: <b>Initial Compliance Test</b>
3. Requested Allowable Emissions and Units: <b>&lt; 10 % Opacity</b>	4. Equivalent Allowable Emissions:  <div style="display: flex; justify-content: space-around;"> <span>lb/hour</span> <span>tons/year</span> </div>
5. Method of Compliance (limit to 60 characters): <b>Initial and Annual EPA Method 9 Compliance Testing</b>	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	



G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

**Supplemental Requirements**

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>III</u> [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u>V</u> [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: _____ [ ] Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>VI</u> [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application <input checked="" type="checkbox"/> Attached, Document ID: <u>VII</u> [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

**EMISSIONS ID. NO. 008**

**Radial Stacker No. 3**

**Emissions Unit Information Section 8 of 11  
 Radial Stacker Conveyor No.3 Drop Point to Storage Piles**

**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) <input type="checkbox"/> 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). <input type="checkbox"/> 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. <input checked="" type="checkbox"/> 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):  <b>Drop Point from Radial Stacker No.3 to Stockpile – where crushed material leaves radial stacker belt to stockpile</b>		
3. Emissions Unit Identification Number: [ ] No ID ID: <b>008</b>		
47. Emissions Unit Status Code: <b>ACTIVE</b>	48. Initial Startup Date: <b>UNKNOWN</b>	49. Emissions Unit Major Group SIC Code: <b>14</b>
50. Emissions Unit Comment: (Limit to 500 Characters):  <b>CRUSHED RECLAIMED ASPHALT &amp; 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 CONVEY RECLAIMED ASPHALT &amp; CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY OCCUR THE MATERIAL WILL BE SPRAYED AND DAMPENED THROUGHOUT THE CRUSHING AND PROCESSING PROCESS AS TO CONTROL ANY EMISSIONS GENERATED.</b>		

**Emissions Unit Information Section 8 of 11**  
**Radial Stacker Conveyor No.3 Drop Point to Storage Piles**  
**Emissions Unit Control Equipment**

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

**ANY EMISSIONS THAT MAY BE GENERATED UNIT ARE CONTROLLED AT THIS FACILITY BY DAMPENING MATERIAL THROUGHOUT THE CRUSHING AND AGGREGATE PROCESSING PROCESS 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 NO.3**

Manufacturer: **SELF FABRICATED**

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

51. Operating Capacity/Schedule Comment (limit to 200 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 CONVEY RECLAIMED ASPHALT & CONCRETE, THEREFORE EMISSIONS WILL BE NIL TO NONE FROM THIS EMISSIONS UNIT. SHOULD ANY OCCUR THE MATERIAL WILL BE SPRAYED AND DAMPENED THROUGHOUT THE CRUSHING AND PROCESSING PROCESS AS TO CONTROL ANY EMISSIONS GENERATED. THIS RADIAL STACKER WILL NOT ALWAYS CARRY THE FULL LOAD OF 200 TPH AS THE OTHER RADIAL STACKER WILL CARRY PART OF THIS LOAD DEPENDENT ON MATERIAL SIZING.**

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

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? 008(Radial Stacker#3)		32. Emission Point Type Code: 4	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): NONE			
33. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NONE			
34. 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 Vulcan Road location) Zone: 17 East (km): 450.4 North (km): 3180.9			
14. Emission Point Comment (limit to 200 characters):  EMISSIONS POINT WILL BE FUGITIVE IF ANY EMISSIONS GENERATED AT ALL.			



Radial Stacker Conveyor No.3 Drop Point to Storage Piles

C. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type) (limit to 500 characters):  <b>Self Fabricated – Radial Stacker Belt No.3– Material Drop Point to Stockpile (Material Handling – Emissions related to conveying and dropping of material.)</b>		
8. Source Classification Code (SCC): <b>30502006</b>	3. SCC Units: <b>TONS OF PRODUCT PROCESSED</b>	
4. Maximum Hourly Rate: <b>200 tph</b>	35. Maximum Annual Rate: <b>624,000 ton</b>	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: <b>NA</b>	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: <b>PM, PM10</b>		2. Pollutant Regulatory Code: <b>WP</b>	
3. Primary Control Device Code: <b>061</b>	4. Secondary Control Device Code: <b>099</b>	5. Total Percent Efficiency of Control: <b>80%</b>	
6. Potential Emissions: <b>PM10 = 0.28 lb/hr &amp; 0.44 ton/hr</b> <b>PM = 0.59 lb/hr &amp; 0.92 ton/hr</b>		7. Synthetically Limited? <b>[ X ]</b>	
8. Emission Factor: <b>0.0014 lb/ton</b> Reference: <b>AP-42 (Table 11.19.2-2 uncontrolled) and footnote © for PM Emissions (worst case scenario)</b>		52. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters):  $PM_{10} = (200 \text{ lb/ton})(0.0014 \text{ lb/ton}) = 0.28 \text{ lb/hr}$ $PM_{10_{\text{yearly}}} [(200 \text{ lb/hr})(3120 \text{ hr/yr})(0.0014 \text{ lb/ton})] / 2000 \text{ lb/ton} = 0.44 \text{ ton/yr}$  $PM = [(200 \text{ lb/ton})(0.0014 \text{ lb/ton})] (2.1) = 0.59 \text{ lb/hr}$  $PM_{10_{\text{yearly}}} [(200 \text{ lb/hr})(3120 \text{ hr/yr})(0.0014 \text{ lb/ton})] / 2000 \text{ lb/ton} (2.1) = 0.92 \text{ ton/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): <b>Radial Stacker Belt – subject to 40 CFR 60, subpart 000 rules and regulations.</b>			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code: <b>40 CFR 60, subpart 000</b>	2. Future Effective Date of Allowable Emissions: <b>Initial Compliance Test</b>
3. Requested Allowable Emissions and Units: <b>&lt; 10 % Opacity</b>	4. Equivalent Allowable Emissions:  <div style="display: flex; justify-content: space-around;"> <span>lb/hour</span> <span>tons/year</span> </div>
5. Method of Compliance (limit to 60 characters): <b>Initial and Annual EPA Method 9 Compliance Testing</b>	
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: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Requested Allowable Opacity: Normal Conditions: <10%          Exceptional Conditions: <10% Maximum Period of Excess Opacity Allowed: 0 min/hour	
4. Method of Compliance: <b>Initial and Annual Visible Emissions Compliance Testing.</b>	
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: NONE	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> 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):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u> III </u> [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u> V </u> [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: _____ [ ] Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan <input checked="" type="checkbox"/> Attached, Document ID: <u> VI </u> [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application <input checked="" type="checkbox"/> Attached, Document ID: <u> VII </u> [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

**EMISSIONS ID. NO. 009**

**325 H.P. Caterpillar Diesel Gen-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) <input checked="" type="checkbox"/> 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). <input type="checkbox"/> 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. <input type="checkbox"/> 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): <b>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.</b>		
3. Emissions Unit Identification Number: ID: 009		<input type="checkbox"/> No ID
53. Emissions Unit Status Code: <b>ACTIVE</b>	54. Initial Startup Date: <b>UNKNOWN</b>	55. Emissions Unit Major Group SIC Code: <b>14</b>
56. Emissions Unit Comment: (Limit to 500 Characters): <b>325 H.P. Caterpillar Diesel Generator (545 kW) – 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.</b>		

**Generator Set**

**Emissions Unit Control Equipment**

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

NONE

2. Control Device or Method Code(s): NA

**Emissions Unit Details**

1. Package Unit: **Generator Set**

Manufacturer: **Caterpillar Diesel**

Model Number: **3412**

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: **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

57. 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.**

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

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram? 009 (Generator)		37. Emission Point Type Code: 4	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): NONE			
38. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NONE			
39. 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 – Vulcan Road - Apopka location ) Zone: 17                      East (km): 450.4                      North (km): 3180.9			
14. Emission Point Comment (limit to 200 characters):			



C. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type) (limit to 500 characters):  <b>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.</b>		
9. Source Classification Code (SCC): <b>20222200401</b>		3. SCC Units: <b>1000 gallons burned</b>
4. Maximum Hourly Rate: <b>25 ga/hr @ worst case</b>	40. Maximum Annual Rate: <b>78,000 gal/yr @ max.</b>	6. Estimated Annual Activity Factor: <b>0.50 tpy @ worst</b>
7. Maximum % Sulfur: <b>0.5%</b>	8. Maximum % Ash: <b>≤ 0.01 % by weight</b>	9. Million Btu per SCC Unit: <b>138,000</b>
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 9 of 11  
 Generator Set

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

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

1. Pollutant Emitted: <b>PM10</b>		2. Pollutant Regulatory Code: <b>WP</b>	
3. Primary Control Device Code:	4. Secondary Control Device Code: <b>NONE</b>	5. Total Percent Efficiency of Control: <b>0%</b>	
6. Potential Emissions: : <b>PM10 = 1.07 lb/hr or 1.67 ton/yr</b>		7. Synthetically Limited? [ <b>X</b> ]	
8. Emission Factor: <b>0.31 lb/MMBTU</b> Reference: <b>AP-42</b>		58. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters):  $\text{PM10} = (25 \text{ gal/hr fuel usage})(138,000 \text{ BTU/gal}) = 3.45 \text{ MMBTU/hr}$ $(3.45 \text{ MMBTU/hr})(0.31 \text{ lb/MMBTU}) = 1.07 \text{ lb/hr}$ $(1.07 \text{ lb/hr})(3120 \text{ hrs/yr}) / 2000 \text{ lb/ton} = 1.67 \text{ ton/hr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): <b>Emissions from Diesel Generator Subject to 62-296.320 FAC</b>			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code: <b>40 CFR 60, subpart 000</b>		2. Future Effective Date of Allowable Emissions: <b>Initial Compliance Test</b>	
3. Requested Allowable Emissions and Units: <b>&lt; 10 % Opacity</b>		4. Equivalent Allowable Emissions:  <div style="display: flex; justify-content: space-around;"> <span>lb/hour</span> <span>tons/year</span> </div>	
5. Method of Compliance (limit to 60 characters): <b>Initial and Annual EPA Method 9 Compliance Testing</b>			
6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):			

Generator Set

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION****Potential Emissions**Pollutant **2** of **5**

1. Pollutant Emitted: <b>NOx</b>		2. Pollutant Regulatory Code: <b>WP</b>	
3. Primary Control Device Code:	4. Secondary Control Device Code: <b>NONE</b>	5. Total Percent Efficiency of Control: <b>0%</b>	
6. Potential Emissions: : <b>NOx = 15.21 lb/hr or 23.73 ton/yr</b>		7. Synthetically Limited? <b>[ X ]</b>	
8. Emission Factor: <b>4.41 lb/MMBTU</b> Reference: <b>AP-42</b>		59. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters):  $\text{NOx} = (25 \text{ gal/hr fuel usage})(138,000 \text{ BTU/gal}) = 3.45 \text{ MMBTU/hr}$ $(3.45 \text{ MMBTU/hr})(4.41 \text{ lb/MMBTU}) = 15.21 \text{ lb/hr}$ $(15.21 \text{ lb/hr})(3120 \text{ hrs/yr}) / 2000 \text{ lb/ton} = 23.73 \text{ ton/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): <b>Emissions from Diesel Generator Subject to 62-296.320 FAC</b>			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code: <b>62-296.320 of FAC</b>	2. Future Effective Date of Allowable Emissions: <b>Initial Compliance Test</b>
3. Requested Allowable Emissions and Units: <b>&lt; 10 % Opacity</b>	4. Equivalent Allowable Emissions:  lb/hour                      tons/year
5. Method of Compliance (limit to 60 characters): <b>Initial and Annual EPA Method 9 Compliance Testing</b>	
6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):	

Generator Set

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

Potential Emissions

Pollutant 3 of 5

1. Pollutant Emitted: <b>CO</b>		2. Pollutant Regulatory Code: <b>WP</b>	
3. Primary Control Device Code:	4. Secondary Control Device Code: <b>NONE</b>	5. Total Percent Efficiency of Control: <b>0%</b>	
6. Potential Emissions: : <b>CO = 3.28 lb/hr or 5.12 ton/yr</b>		7. Synthetically Limited? [ <b>X</b> ]	
8. Emission Factor: <b>0.95 lb/MMBTU</b> Reference: <b>AP-42</b>		60. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters):  $\text{CO} = (25 \text{ gal/hr fuel useage})(138,000 \text{ BTU/gal}) = 3.45 \text{ MMBTU/hr}$ $(3.45 \text{ MMBTU/hr})(0.95 \text{ lb/MMBTU}) = 3.28 \text{ lb/hr}$ $(3.28 \text{ lb/hr})(3120 \text{ hrs/yr}) / 2000 \text{ lb/ton} = 5.12 \text{ ton/hr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): <b>Emissions from Diesel Generator Subject to 62-296.320 FAC</b>			

Allowable Emissions Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code: <b>62-296.320 FAC</b>	2. Future Effective Date of Allowable Emissions: <b>Initial Compliance Test</b>
3. Requested Allowable Emissions and Units: <b>&lt; 20% Opacity</b>	4. Equivalent Allowable Emissions:  lb/hour                      tons/year
5. Method of Compliance (limit to 60 characters): <b>Initial and Annual EPA Method 9 Compliance Testing</b>	
6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):	

## Generator Set

## D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential EmissionsPollutant 4 of 5

1. Pollutant Emitted: <b>SOx</b>		2. Pollutant Regulatory Code: <b>WP</b>	
3. Primary Control Device Code:	4. Secondary Control Device Code: <b>NONE</b>	5. Total Percent Efficiency of Control: <b>0%</b>	
6. Potential Emissions: : <b>SOx = 1.00 lb/hr or 1.56 ton/yr</b>		7. Synthetically Limited? [ <b>X</b> ]	
8. Emission Factor: <b>0.29 lb/MMBTU</b> Reference: <b>AP-42</b>		61. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters):  $\text{SOx} = (25 \text{ gal/hr fuel useage})(138,000 \text{ BTU/gal}) = 3.45 \text{ MMBTU/hr}$ $(3.45 \text{ MMBTU/hr})(0.29 \text{ lb/MMBTU}) = 1.00 \text{ lb/hr}$ $(1.00 \text{ lb/hr})(3120 \text{ hrs/yr}) / 2000 \text{ lb/ton} = 1.56 \text{ ton/hr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): <b>Emissions from Diesel Generator Subject to 62-296.320 FAC</b>			

Allowable Emissions Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code: <b>62-296.320 FAC</b>	2. Future Effective Date of Allowable Emissions: <b>Initial Compliance Test</b>
3. Requested Allowable Emissions and Units: <b>&lt; 20% Opacity</b>	4. Equivalent Allowable Emissions:  lb/hour                      tons/year
5. Method of Compliance (limit to 60 characters): <b>Initial and Annual EPA Method 9 Compliance Testing</b>	
6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):	

Generator Set

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

**Pollutant 5 of 5**

1. Pollutant Emitted: <b>TOC</b>		2. Pollutant Regulatory Code: <b>WP</b>	
3. Primary Control Device Code:	4. Secondary Control Device Code: <b>NONE</b>	5. Total Percent Efficiency of Control: <b>0%</b>	
6. Potential Emissions: : <b>TOC = 1.24 lb/hr or 1.93 ton/yr</b>		7. Synthetically Limited? <b>[ X ]</b>	
8. Emission Factor: <b>0.36 lb/MMBTU</b> Reference: <b>AP-42</b>		62. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters):  $\text{TOC} = (25 \text{ gal/hr fuel useage})(138,000 \text{ BTU/gal}) = 3.45 \text{ MMBTU/hr}$ $(3.45 \text{ MMBTU/hr})(0.36 \text{ lb/MMBTU}) = 1.24 \text{ lb/hr}$ $(1.24 \text{ lb/hr})(3120 \text{ hrs/yr}) / 2000 \text{ lb/ton} = 1.93 \text{ ton/hr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): <b>Emissions from Diesel Generator Subject to 62-296.320 FAC</b>			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code: <b>62-296.320 FAC</b>	2. Future Effective Date of Allowable Emissions: <b>Initial Compliance Test</b>
3. Requested Allowable Emissions and Units: <b>&lt; 20% Opacity</b>	4. Equivalent Allowable Emissions:  lb/hour                      tons/year
5. Method of Compliance (limit to 60 characters): <b>Initial and Annual EPA Method 9 Compliance Testing</b>	
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: <b>VE</b>	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Requested Allowable Opacity: Normal Conditions: <b>&lt;20%</b> Exceptional Conditions: <b>&lt;10%</b> Maximum Period of Excess Opacity Allowed: <b>0</b> min/hour	
4. Method of Compliance: <b>Initial and Annual Visible Emissions Compliance Testing.</b>	
5. Visible Emissions Comment (limit to 200 characters): <b>Visible Emissions from Diesel Generator are subject to 62-296.320 FAC</b>	

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

**Continuous Monitoring System:** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code: <b>NONE</b>	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> 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):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>III</u> [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification <input checked="" type="checkbox"/> Attached, Document ID: <u>VII</u> [ ] Not Applicable [ ] Waiver Requested <b>can be found in supplemental section of application</b>
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u>V</u> [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: _____ [ ] Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>VI</u> [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application <input checked="" type="checkbox"/> Attached, Document ID: <u>VII</u> [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:



**EMISSIONS ID. NO. 010**

**Emissions From Paved and Unpaved Roads**

**Emissions Unit Information Section 10 of 11**  
**FUGITIVE EMISSIONS FROM PAVED & UNPAVED AREAS**

**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**

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input type="checkbox"/> 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).</p> <p><input type="checkbox"/> 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.</p> <p><input checked="" type="checkbox"/> 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.</p>		
<p>2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>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.</p>		
<p>3. Emissions Unit Identification Number:</p> <p>ID: NA</p>		<p><input type="checkbox"/> No ID</p> <p><input type="checkbox"/> ID Unknown</p>
<p>1. Emissions Unit Status Code:</p> <p>NA</p>	<p>2. Initial Startup Date:</p> <p>ASAP</p>	<p>3. Emissions Unit Major Group SIC Code:</p> <p>1422</p>
<p>4. Emissions Unit Comment: (Limit to 500 Characters):</p> <p><b><i>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.</i></b></p>		

Emissions Unit Information Section 10 of 11  
**FUGITIVE EMISSIONS FROM PAVED & UNPAVED AREAS**  
**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 or sprinkler 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:

**12 hours/day              6 days/week**

**52 weeks/year              not to exceed: 3744 hrs/year**

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

**Vehicular traffic at this facility will not be continuous 24 hrs/day**

**Emissions Unit Information Section 10 of 11**

**FUGITIVE EMISSIONS FROM PAVED & UNPAVED AREAS**

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

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram? <b>010 – Unpaved/Paved Areas</b>		2. Emission Point Type Code: <b>4</b>	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): <b>NA – Fugitive Emission Point</b>			
3. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <b>NOT APPLICABLE</b>			
4. Discharge Type Code: <b>F</b>	6. Stack Height: <b>~ 0.0 feet</b>	7. Exit Diameter: <b>Not Determinable feet</b>	
8. Exit Temperature: <b>~Ambient °F</b>	9. Actual Volumetric Flow Rate: <b>Unknown</b>	10. Water Vapor: <b>~5 %</b>	
11. Maximum Dry Standard Flow Rate: <b>dscfm</b>		12. Nonstack Emission Point Height: <b>feet</b>	
13. Emission Point UTM Coordinates: ( <b>@ Vulcan Road - Apopka</b> )  <b>Zone: 17</b> <b>East (km): 450.4 E</b> <b>North (km): 3180.9 N</b>			
14. Emission Point Comment (limit to 200 characters): <b>This emission point subject to 62-296.310 FAC Rules and Regulations.</b>			

**Emissions Unit Information Section 10 of 11**  
**FUGITIVE EMISSIONS FROM PAVED & UNPAVED AREAS**  
**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): <b>3050204</b>		3. SCC Units: <b>Vehicle Miles Traveled</b>
4. Maximum Hourly Rate: <b>NA</b>	5. Maximum Annual Rate: <b>NA</b>	6. Estimated Annual Activity Factor: <b>NA</b>
6. Maximum % Sulfur: <b>NA</b>	7. Maximum % Ash: <b>NA</b>	8. Million Btu per SCC Unit: <b>NA</b>
10. Segment Comment (limit to 200 characters):  <b>FUGITIVE EMISSIONS CALCULATED AT WORST CASE SCENARIO</b>		

**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 10 of 11**  
**FUGITIVE EMISSIONS FROM PAVED & UNPAVED AREAS**

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: <b>PM10, TSP</b>		2. Pollutant Regulatory Code: <b>EL</b>	
3. Primary Control Device Code: <b>099</b>	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control: <b>90.0%</b>	
6. Potential Emissions: <b>PM10 : 1.25 lb/hr, 2.34 ton/yr</b>		7. Synthetically Limited? <b>[ X ] YES</b>	
8. Emission Factor: <b>0.24 lb/VMT</b> Reference: <b>AP-42 (Section 13.2.1.1) unpaved roads</b>		9. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters): $E = k(5.9)[s/12][S/30][W/3]^{0.7}[w/4]^{0.5}[365-P/365]$ $E = 0.36(5.9)[8.9/12][5/30][31.3/3]^{0.7}[10/4]^{0.5}[365-120/365] = 2.0 \text{ lb/VMT}$ $E = 2.0 \text{ lb/VMT (1-0.90 control efficiency from water truck or sprinklers)} = 0.2 \text{ lb/VMT}$ $E_{\text{daily}} = (0.2 \text{ lb/VMT})(\sim 75 \text{ VMT/day}) = 15.0 \text{ lb/day}$ $E_{\text{year}} = [(15.0 \text{ lb/day}) / (\sim 12 \text{ hr/day}) (3744 \text{ hr/yr}) / 2000 \text{ lb/ton} = 2.34 \text{ ton/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

**Allowable Emissions** Allowable Emissions   1   of   7  

3. Basis for Allowable Emissions Code: <b>RULE</b>	2. Future Effective Date of Allowable Emissions: <b>NA</b>
4. Requested Allowable Emissions and Units: <b>&lt;10% Opacity</b>	5. Equivalent Allowable Emissions: <b>PM10 = 1.0 lb/hr, 1.67 ton/hr</b> <b>TSP = 2.10 lb/hour, 3.28 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>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.</b>	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 10 of 11  
**FUGITIVE EMISSIONS FROM PAVED & UNPAVED AREAS**

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

**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):  <b>NOT APPLICABLE</b>	

**Emissions Unit Information Section 10 of 11**  
**FUGITIVE EMISSIONS FROM PAVED & UNPAVED AREAS**

**G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**

**Supplemental Requirements**

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>I</u> [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification <input checked="" type="checkbox"/> Attached, Document ID: <u>VII</u> [ ] Not Applicable [ ] Waiver Requested <b>Can be found in supplemental information section of application</b>
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u>V</u> [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: <u>VI</u> [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application <input checked="" type="checkbox"/> Attached, Document ID: <u>VII</u> [ ] Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ [ ] Not Applicable
10. Supplemental Requirements Comment:



**EMISSIONS ID. NO. 011**

**Emissions From Storage Piles**

**Emissions Unit Information Section 11 of 11**  
**Fugitive Emissions from Aggregate Storage Piles**

**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**

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input type="checkbox"/> 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).</p> <p><input type="checkbox"/> 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.</p> <p><input checked="" type="checkbox"/> 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.</p>		
<p>6. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>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.</p>		
<p>3. Emissions Unit Identification Number: <span style="float: right;"><input type="checkbox"/> No ID</span></p> <p>ID: 011 <span style="float: right;"><input type="checkbox"/> ID Unknown</span></p>		
<p>5. Emissions Unit Status Code:</p> <p style="text-align: center;">NA</p>	<p>6. Initial Startup Date:</p> <p style="text-align: center;">ASAP</p>	<p>7. Emissions Unit Major Group SIC Code:</p> <p style="text-align: center;">1422</p>
<p>8. Emissions Unit Comment: (Limit to 500 Characters):</p> <p><b><i>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.</i></b></p>		

**Emissions Unit Information Section 11 of 11**  
**Fugitive Emissions from Aggregate Storage Piles**  
**Emissions Unit Control Equipment**

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

**All aggregate stockpiles at this facility and other locations will be kept damp by water truck and sprinker system on a as needed basis.**

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:

7. Requested Maximum Operating Schedule:

**12 hours/day      6 days/week**

**52 weeks/year      not to exceed: 3744 hrs/year**

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

**Aggregate Handling at this facility will not be continuous 24 hrs/day**

**Emissions Unit Information Section 11 of 11**  
**Fugitive Emissions from Aggregate Storage Piles**

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

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram? <b>011 – Storage Piles, Loader Operations</b>		6. Emission Point Type Code: <b>4</b>	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): <b>NA – Fugitive Emission Point</b>			
7. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <b>NOT APPLICABLE</b>			
8. Discharge Type Code: <b>F</b>	6. Stack Height: <b>~ 0.0 feet</b>	7. Exit Diameter: <b>Not Determinable feet</b>	
8. Exit Temperature: <b>~Ambient °F</b>	9. Actual Volumetric Flow Rate: <b>Unknown</b>	10. Water Vapor: <b>~5 %</b>	
11. Maximum Dry Standard Flow Rate: <b>dscfm</b>		12. Nonstack Emission Point Height: <b>feet</b>	
13. Emission Point UTM Coordinates: ( <b>@ Vulcan Road – Apopka location</b> ) <b>Zone: 17                      East (km): 450.4 E                      North (km): 3180.9 N</b>			
14. Emission Point Comment (limit to 200 characters): <b>This emission point subject to 62-296.310 FAC Rules and Regulations.</b>			

Emissions Unit Information Section **11** of **11**  
 Fugitive Emissions from Aggregate Storage Piles

**C. SEGMENT (PROCESS/FUEL) INFORMATION**

**Segment Description and Rate:** Segment   1   of   2  

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

**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 11 of 11**  
**Fugitive Emissions from Aggregate Storage Piles**

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: <b>PM10, TSP</b>		2. Pollutant Regulatory Code: <b>EL</b>	
3. Primary Control Device Code: <b>099</b>	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control: <b>80.0%</b>	
6. Potential Emissions: <b>PM10 : 1.62 lb/hr, 0.61 ton/yr</b>		7. Synthetically Limited? <b>[ X ] YES</b>	
6. Emission Factor: Reference: <b>AP-42 (Section 13.2.4.2)</b>		9. Emissions Method Code: <b>3</b>	
7. Calculation of Emissions (limit to 600 characters): $E = k(0.0032)[w/5]^{1.3}[M/2]^{1.4}$ $E = 0.35(0.0032)[7/5]^{1.3} / [0.7/2]^{1.4} = 0.0081 \text{ lb/ton}$ $E = 200 \text{ ton/hr} (0.0081 \text{ lb/ton}) = 1.62 \text{ lb/hr}$ $E = (1.62 \text{ lb/hr})(1-0.80 \text{ control efficiency}) (\sim 12 \text{ hr/day}) = 3.89 \text{ lb/day}$ $E = [(3.89 \text{ lb/day}) / (\sim 12 \text{ hr/day}) (3744 \text{ hr/yr}) / 2000 \text{ lb/ton}] = 0.61 \text{ ton/yr}$			
8. Pollutant Potential Emissions Comment (limit to 200 characters): <i>Aggregate Storage Piles &amp; Conveyor Drops – Fugitive Emissions (controlled) are subject to 62-296.700 (2)(e)(f)</i>			

**Allowable Emissions** Allowable Emissions   1   of   7  

7. Basis for Allowable Emissions Code: <b>RULE</b>	2. Future Effective Date of Allowable Emissions: <b>NA</b>
8. Requested Allowable Emissions and Units: <b>&lt;10% Opacity</b>	9. Equivalent Allowable Emissions: <b>PM10: 1.62 lb/hr, 0.61 ton/hr</b>
5. Method of Compliance (limit to 60 characters): <b>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.</b>	
6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 11 of 11  
Fugitive Emissions from Aggregate Storage Piles

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: <b>VE10</b>	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Requested Allowable Opacity: Normal Conditions: <b>10 %</b> Exceptional Conditions: <b>10 %</b> Maximum Period of Excess Opacity Allowed: <b>NONE</b> min/hour	
4. Method of Compliance: <b>EPA METHOD 9</b>	
5. Visible Emissions Comment (limit to 200 characters): <b>Regulated under 62-296.320</b>	

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:	<input type="checkbox"/> Rule <input type="checkbox"/> 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): <b>NOT APPLICABLE</b>	

Emissions Unit Information Section 11 of 11  
Fugitive Emissions from Aggregate Storage Piles

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>III</u> [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification <input checked="" type="checkbox"/> Attached, Document ID: <u>VII</u> [ ] Not Applicable [ ] Waiver Requested <b>Can be found in supplemental information section of application</b>
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u>V</u> [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: _____ [ ] Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>VI</u> [ ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application <input checked="" type="checkbox"/> Attached, Document ID: <u>VII</u> [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID: _____ [ ] Not Applicable
10. Supplemental Requirements Comment:



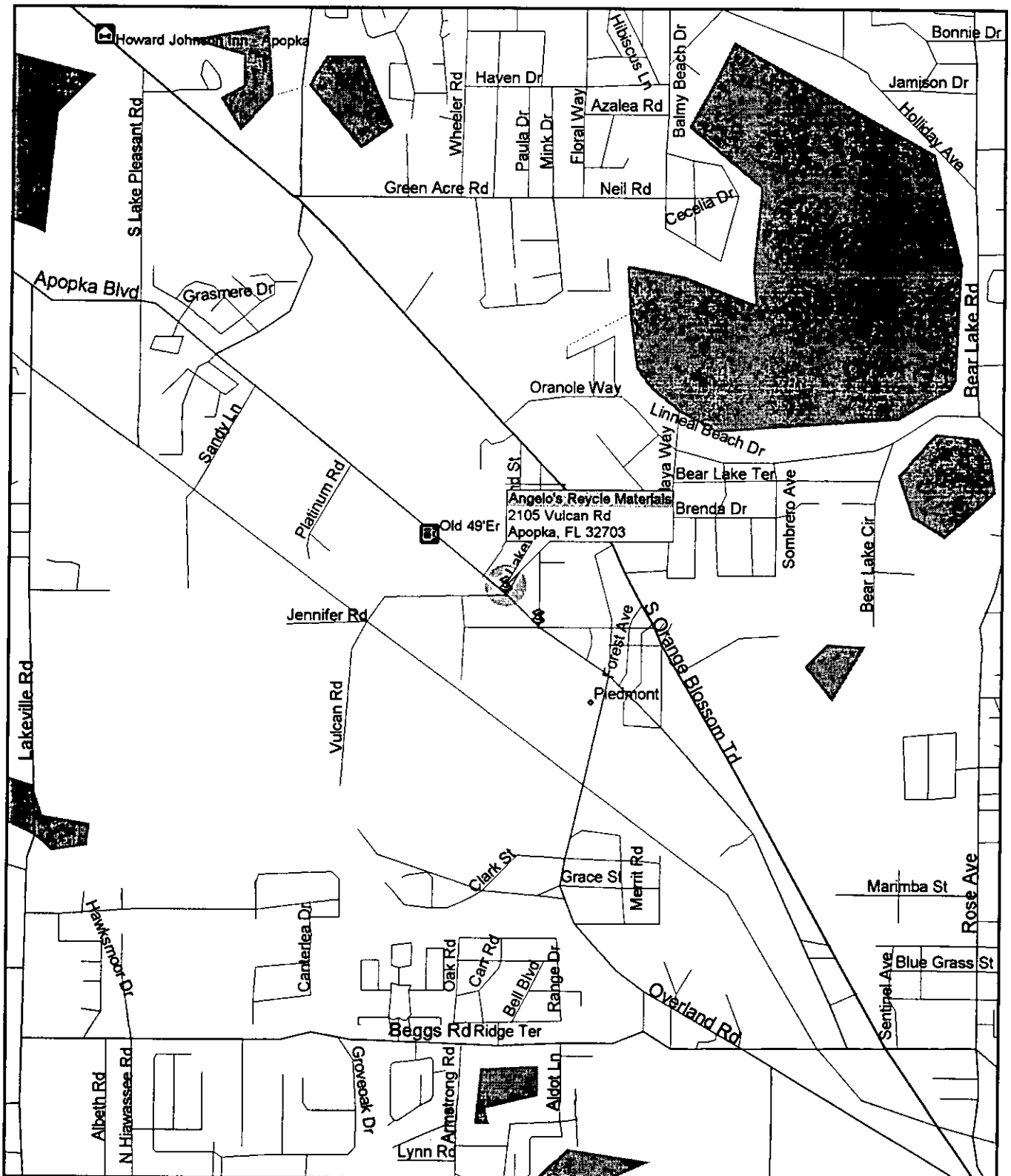
# **TABLE OF CONTENTS**

- I. FACILITY LOCATION**
- II. SITE PLAN**
- III. FLOW DIAGRAM**
- IV. UNCONFINED EMISSIONS**
- V. CONTROL EQUIPMENT**
- VI. O & M PLAN**
- VII. SUPPLEMENTAL INFORMATION**
- VIII. PROCESS WEIGHT  
DETERMINATION**
- IX. INITIAL COMPLIANCE TESTING**

## **I. FACILITY LOCATION**

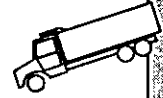
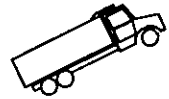
# ANGELO'S RECYCLE MATERIALS, INC.

Location Of Crusher No.3

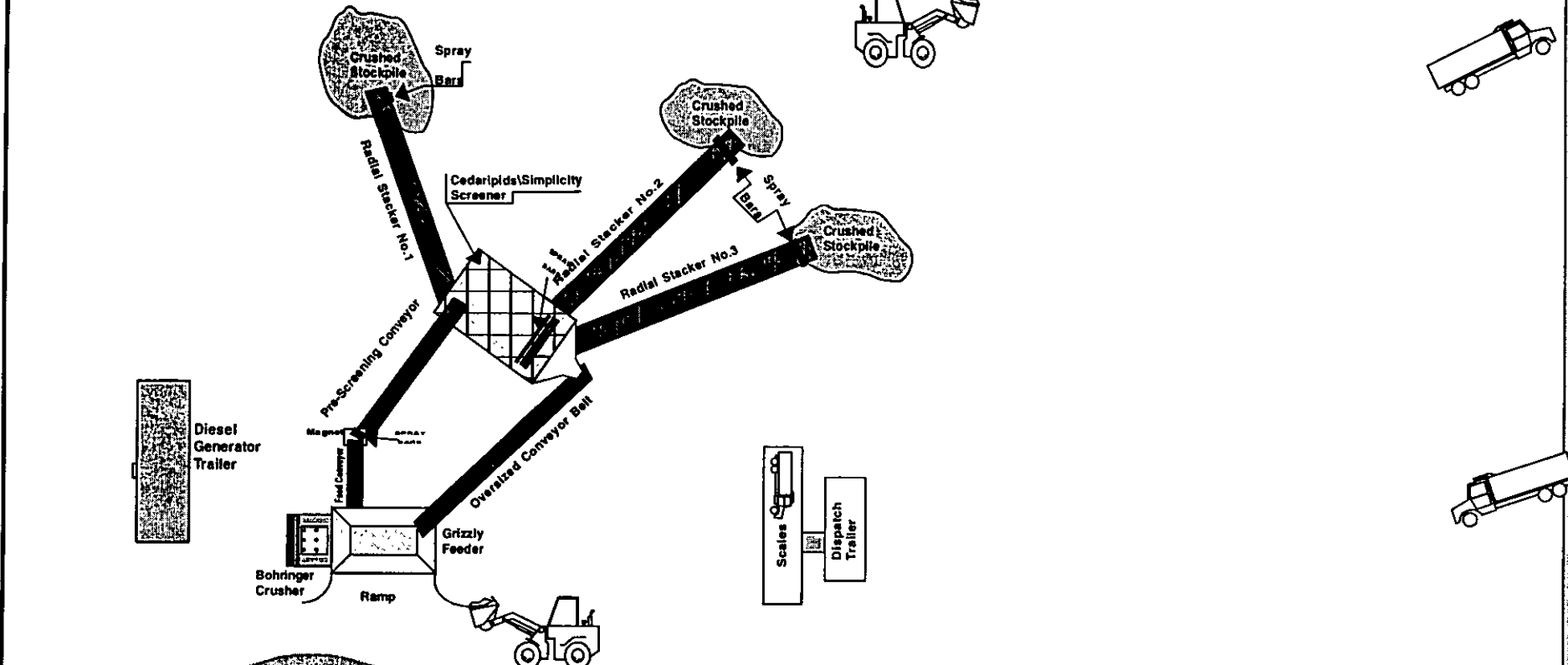


Microsoft Expedia  
**Streets98**

## **II. SITE PLAN**



PERIMETER ROAD



Uncrushed Material

SPRINKLERS

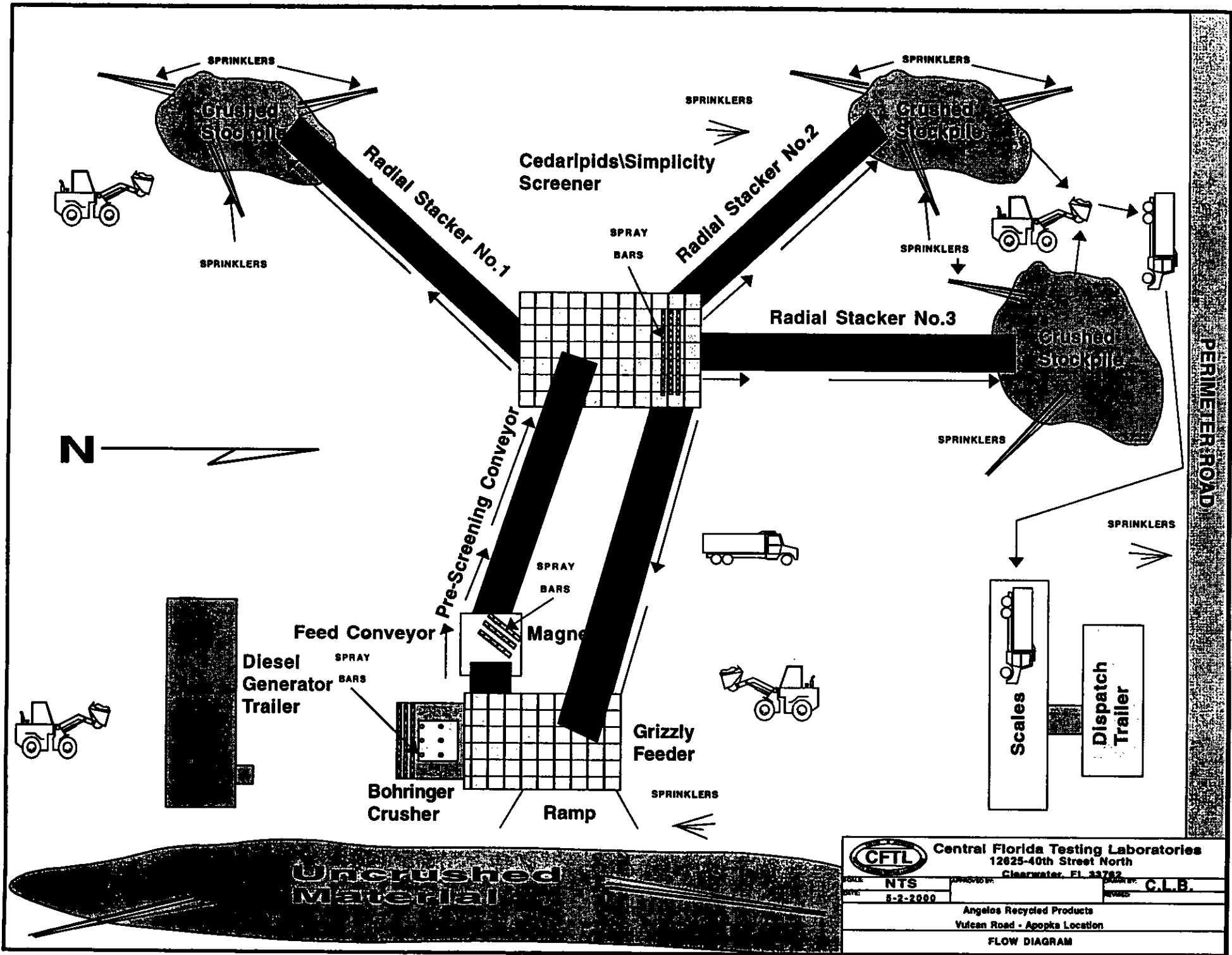
**CFTL** Central Florida Testing Laboratories  
 12625-40th Street North  
 Clearwater, Fl. 33762

SCALE: <b>NTS</b>	APPROVED BY:	DRAWN BY: <b>C.L.B.</b>
DATE: <b>3-9-2000</b>	REVIEWED:	

ANGELO'S Recycled Materials, Inc. - Crusher Unit No.3  
 2105 Vulcan Rd. - Apopka, Florida

**SITE LAYOUT**

### **III. FLOW DIAGRAM**



<b>CFTL</b>		<b>Central Florida Testing Laboratories</b>	
12625-40th Street North		Clearwater, FL 33782	
PROJECT: NTS	APPROVED BY:	DATE: 8-2-2000	REVISIONS: C.L.B.
Angelos Recycled Products			
Vulcan Road - Apopka Location			
<b>FLOW DIAGRAM</b>			

## PROCESS DESCRIPTION

This project consists of a portable secondary crushing plant that will be utilized to recycle reclaimed concrete and asphalt material at various sites throughout the State of Florida, for use as demolition recycling, base material and fill by contracting companies and for sale to the general public.

The process begins with the transfer of reclaimed concrete and asphalt material that has been scalped or excavated from bridges, highways, parking lots, building demolition, etc. is brought to the temporary by dump truck and stockpiled for crushing or the crushing unit is brought to the site of demolition where material has been stockpiled for crushing. This stockpiled material, usually in chunk form ranging from one to twenty inches in diameter contains very little if any fine material and therefore is virtually dust free. This material is too large to reuse in it's reclaimed size, so it has to be screened and crushed to various practical aggregate sizes. The reclaimed concrete are transferred from their stockpiles by a front-end-loader into the vibrating grizzly feeder hopper. From this hopper the reclaimed material vibrates into the crusher where it is crushed to a desired size and drops onto the vibrating screener below the crusher. This crushed material is then transferred by conveyor belt to a metal extractor that removes any metal that may have been within the reclaimed material. After passing the metal extractor the material is then dropped to another conveyor belt where it travels to the screening system. Once the material reaches and drops onto the portable discharge system any over size material is transferred back to the secondary crusher by conveyor, then passes through the secondary crushing unit onto a material conveying belt where it travels back to the screening system, whereas the material that passes through several screens and is dropped onto a appropriate conveyer/stacker belts that stockpiles the material for reuse at a later time.

The majority of fugitive dust created during this process is generated by the vibrating feeder hopper, crushers and at the drop point below the crusher. These emission points as well as all transfer and drop points throughout the plant will be controlled by a self-made water spray bar / spray head dust suppression system that employs spray bars and spray heads at the various emission points throughout the plant. Any fugitives generated by vehicular traffic, winds and airborne particulate from stockpiles will be controlled by the constant use of a water truck employed at this facility and at the different jobsites to keep the entire facility dampened, to control these emissions.

This facility will comply with all FDEP Rules and Regulations referencing portable crushing plants of this type.



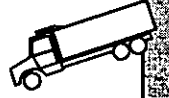


## **IV. UNCONFINED EMISSIONS**

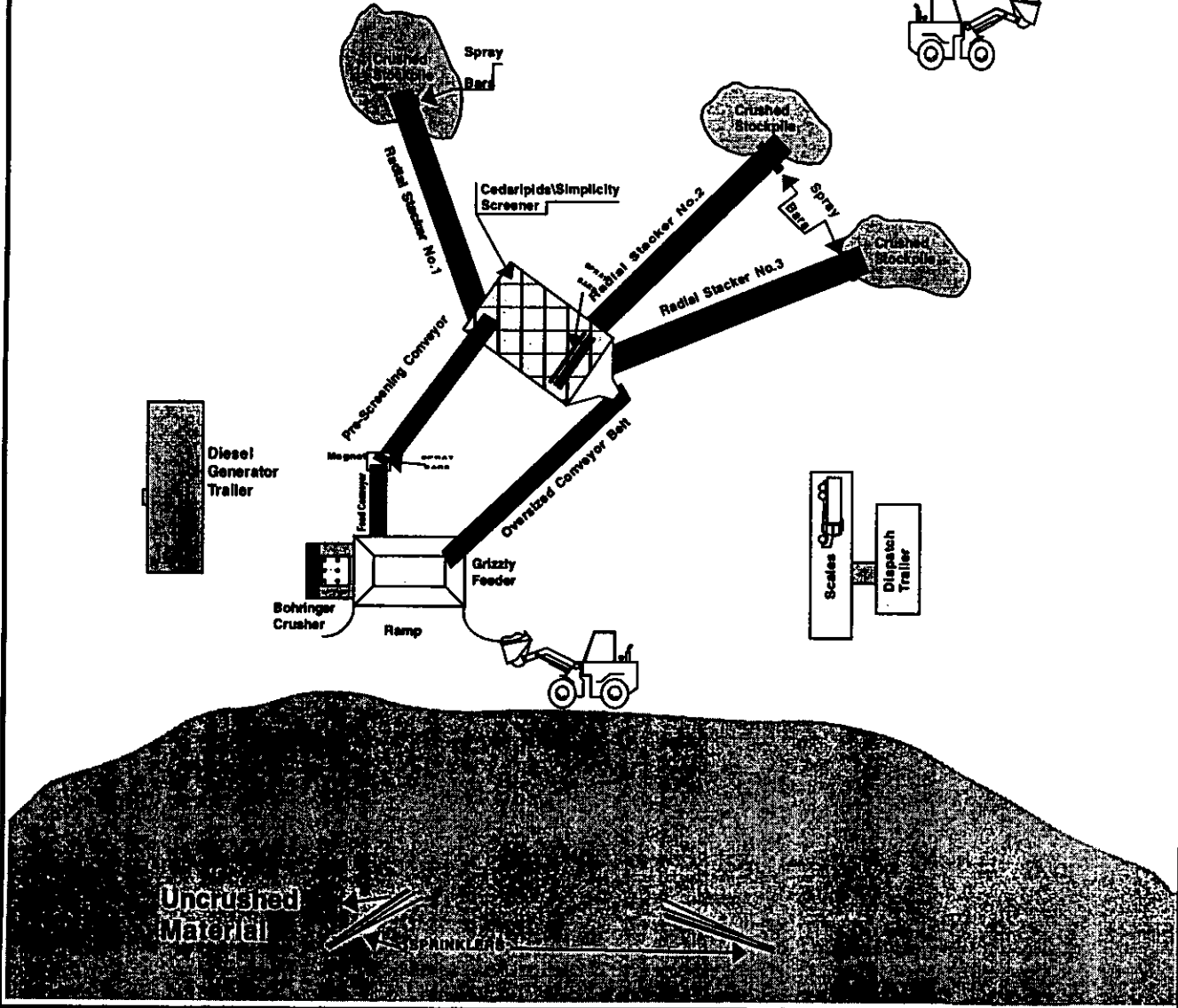
## **FUGITIVE EMISSION CONTROL**

Precautions to control and prevent fugitive emissions are accomplished at this site occurs in several manners. Any stockpiles at this location or any other location will be kept dampened by sprinker systems or by water truck to control airborne emissions by prevailing winds. All traffic areas will have an enforced and instructed 5 mph speed limit as well as kept damp by water truck or sprinker system on an as needed basis to control fugitive emissions.

## **V. CONTROL EQUIPMENT**



PERIMETER ROAD



**CFTL** Central Florida Testing Laboratories  
 12625-40th Street North  
 Clearwater, FL 33762

SCALE: NTS	APPROVED BY:	ISSUED BY: C.L.B.
DATE: 3-8-2000		REVISED:

ANGELO'S Recycled Materials, Inc. - Crusher Unit No.3  
 2105 Vulcan Rd. - Apopka, Florida

Emission Control Diagram

## CONTROL EQUIPMENT

All of the equipment used to control fugitive dust emissions from this crushing unit was generated by crushing and maintenance personnel on as needed basis as this crushing unit did not come equipped with any dust suppression equipment when purchased.

The water spray bar and spray head system used on this equipment were manufactured and installed on all areas where possible fugitive dust emissions would occur during the crushing, screening and conveying operations. These areas include the grizzly feeder, the crusher, the conveyor belt drop points, screens and discharge pan.

The control process starts with an on site well that is equipped with two (2) electric pumps (only one used at a time as one is a spare) that is used to feed water through 1 1/2 inch PVC pipe to a hose bib rack. From the hose bib rack water is fed through either 1/2 PVC piping or 1/2 inch hose to spray heads and bars mounted at the various fugitive emission points mentioned above at 25-40 psi, depending what is needed to control the emissions. When at other sites the crusher is equipped with its own pump to supply water to the dust suppression spray bar system. Water is usually obtained from various sources such as on site water supplies, fire hydrant, lakes, ponds or water truck.

In addition, plant personnel stand on top of the feeder hopper, where the material is dumped in by front loader, dampening the material that is in the loader and the material that is being dumped into this hopper with a high pressure water hose, to control any fugitive emissions generated.

## **VI. O & M PLAN**

### General Maintenance Intervals

The crushing unit and the general area are checked visually, daily for visible emissions. The entire compound inclusive of storage piles are continuously kept damp by a water truck. If any fugitive emissions are seen escaping the crushing plant the source is identified immediately and the problem area is corrected. Fugitive emissions at drop points are controlled by increasing and decreasing the water pressure from 25-40 psi, at the spray bars/heads.

Inspections of various parts of the Self-Made Water Spray Bar / Spray Head Dust Suppression System are done on a daily basis before startup, during operation and after shut down, as well as complete inspection on a weekly basis. If anything is found broken, not functioning or out of the ordinary it is fixed immediately by trained plant personnel. In addition, this dust suppression system is equipped with a spare pump in case of breakdown the spare pump can be used until the other pump can be fixed.

**OPERATING PARAMETERS**  
**for**  
**SELF-MADE WATER SPRAY BAR / SPRAY HEAD**  
**DUST SUPPRESSION SYSTEM**

*Water Pressure to Spray Bars & Spray Heads*  
*Operation Mode*

*20-45 psi @ each head*

*Continuous w/ product*









## **VII. SUPPLEMENTAL INFORMATION**

**ANGELO'S RECYCLED MATERIALS - PLANT NO. 3**

**Total Emissions Produced by Facility**

Point	Emission Point Name	PM10 lb/hr	PM10 ton/yr	SOx lb/hr	SOx ton/yr	CO lb/hr	CO ton/yr	NOx lb/hr	NOx ton/yr	TOC lb/hr	TOC ton/yr
001	Receiving Hopper / Grizzly Feeder	0.42	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
002	Bohringer RC14 Impact Crusher	0.42	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
003	Vibrating Screener	0.42	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
004	Crushed Material Feed Conveyor	0.96	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
005	Pre-Screener Feed Conveyor	0.96	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
006	Radial Stacker No.1	0.96	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
007	Radial Stacker No.2	1.07	1.67	1.00	1.56	3.28	5.12	15.12	23.73	1.24	1.93
008	Radial Stacker No.3	1.07	1.67	1.00	1.56	3.28	5.12	15.12	23.73	1.24	1.93
009	Caterpillar Gen-Set	1.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
010	Fugitives from	2.03	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
011	Fugitives from	2.03	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total Emissions: Plant/Generator</b>	<b>6.38/1.07</b>	<b>8.44/1.67</b>	<b>1.00</b>	<b>1.56</b>	<b>3.28</b>	<b>5.12</b>	<b>15.21</b>	<b>23.73</b>	<b>1.24</b>	<b>1.93</b>



# central company, inc.

PETROLEUM PRODUCTS

## CENTRAL OIL COMPANY, INC.

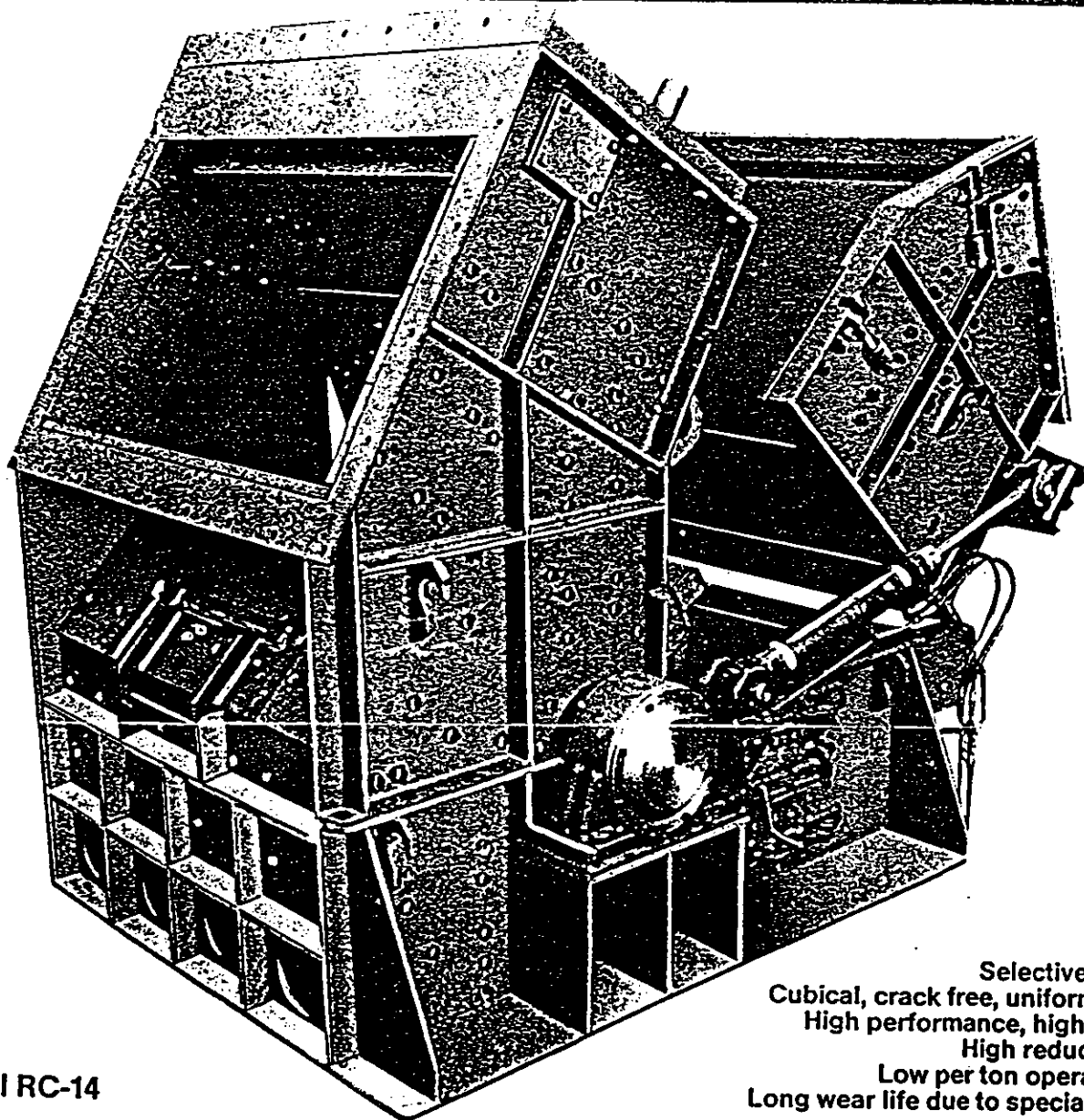
### FUEL OIL #2 (DISTILLATE) SPECIFICATIONS

<u>CHARACTERISTICS</u>	<u>MIN</u>	<u>MAX</u>
GRAVITY, API AT 60°F	32.3	
SULPHUR, % WT.		0.21
POUR POINT, F		15.
BS & W. %		0.2
VISCOSITY, SSU/100F SECS	33	40.
VISCOSITY, KINEMATIC CST/40C	2.0	4.
FLASH POINT, PM CC, F	150.	
ASH, % WT.		0.01
CETANE NUMBER	40.	
CARBON RESIDUE, RAMSBOTTOM (10%)		125.
CLOUD POINT, F		0.01
SEDIMENT BY EXTRACTION, % WT.	C&B	
APPEARANCE		1.5
COLOR, ASTM		1-A
CORROSION, COPPER STRIP 3 HRS. 122°F		"REPORT"
BTU PER U.S. GALLON		138,500

# BÖHRINGER

## Impact Crushers – Recycling –

„RC” Series for Asphalt, Concrete with wire mesh/rebar and Building rubble



Model RC-14

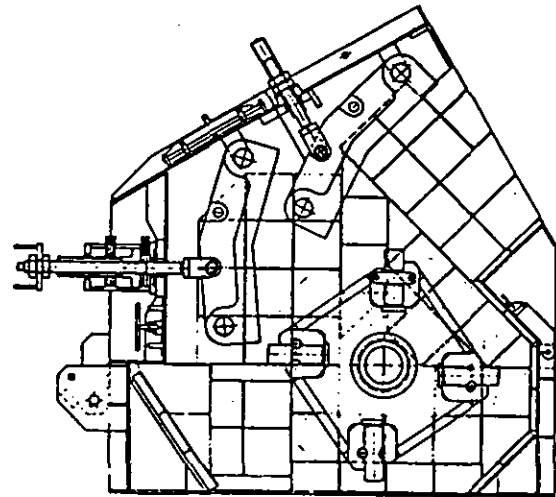
Selective crushing.  
Cubical, crack free, uniform product.  
High performance, high capacity.  
High reduction ratio.  
Low per ton operating cost.  
Long wear life due to special castings.



# BÖHRINGER

## Impact crushers „RC” series – Recycling –

- increase your profits
- save energy
- lower your maintenance cost and down-time
- eliminate multi-stage crushing
- conserve raw material resources
- eliminate dumping costs



Model RC 14

Model	Rotor Dia. (Inch) Width	Feed Opening (Inch)	Capacity (Stph)	Power required (Hp)	Weight approx. (Lbs)
RC 18	59 x 70	71 x 47	300 - 400	300 - 500	88,700
RC 16	49 1/4 x 63	64 x 39	275 - 350	250 - 400	59,200
RC 14	49 1/4 x 55 15/16	57 x 37	175 - 275	200 - 350	41,700
RC 12	47 1/4 x 47 1/4	48 x 37	150 - 250	175 - 300	35,800
RC 10	43 5/16 x 41 1/8	42 x 31	100 - 175	125 - 200	29,800
RC 7	39 3/8 x 27 9/16	28 x 20	50 - 100	75 - 125	18,100

Design specifications subject to change without notice. Technical data are approximates and should be used as a guide only. Capacity and power requirements depend on the type and characteristics of the feed material.

With the "RC"-series Boehringer offers a specially developed robust impact crusher for the recycling of asphalt, concrete (with mesh and rebar), building rubble and aggregates. The innovative design features, use of high wear resistant castings and utilization factor of the wear parts make this horizontal shaft, fixed blow bar impactor superior to any crusher of this type available today. Depending on the specific application the machine can be equipped with different interior parts. Access to the machine for inspection and/or maintenance is simplified through hydraulic opening of the upper rear housing section. The heavy duty rotor, the heart of any impact crusher, is equipped with four rows of blow bars made of high wear resistant castings. The two impact aprons are symmetric, single piece castings, reversible and interchangeable. Dependent on the application, we also offer aprons with replaceable impact plates. Their

special suspension assures minimum down-time for turning or replacing. Both aprons are gravity hung, adjustable towards the blow bars, to maintain a constant gap and thus assure a uniform product size. Spindle assemblies permit gap adjustment hydraulically on the lower (rear) apron. The crusher housing is lined with bolted, interchangeable wear plates of high wear resistant steel. The machine can be furnished with a tower crane, mounted to the feed hood, to assist with maintenance.

We offer consulting, application engineering of individual machinery and complete plants, such as:

Stationary processing plant

Portable recycling plant

Modular skid mounted plant



# LINDER

**INDUSTRIAL  
MACHINERY  
COMPANY**

*11 Specializing*

cc: Mr. Dan Sherman, LIMCO  
Mr. Jim Teague, LIMCO  
**QUOTATION**  
Mr. Jeff Chandler, LIMCO

*Statewide To Serve You Better*

01 S. Frontage Rd.  
Orlando, Florida 32805  
(3) 754-2727

20900 Taff Street  
Pembroke Pines, Florida 33029  
(305) 433-2800

718 North Lane Avenue  
Jacksonville, Florida 32254  
(904) 786-6710

2289 Bruner Lane S.E.  
Fort Myers, Florida 33912  
(813) 481-2403

3950 West Hwy 326  
Ocala, Florida 32675  
(904) 629-7585

1400 S. Orange Blossom Trail  
Orlando, Florida 32805  
(407) 849-6560

TO Mr. Jim Thompson  
S & E Contractors, Inc.  
14561 58th Street North  
Clearwater, Florida 34620

REFERENCE Linder Proposal #4005,  
Revision #1

DATE January 30, 1994

**GENTLEMEN:**  
LINDER INDUSTRIAL MACHINERY COMPANY HEREBY SUBMITS TO YOU THE FOLLOWING QUOTATION ON THE GOODS LISTED BELOW  
SUBJECT TO ALL THE TERMS PRINTED ON THE REVERSE HEREOF. ALL OF WHICH ARE HEREBY MADE A PART OF ANY AGREEMENT BETWEEN  
US. THIS QUOTATION IS SUBJECT TO IMMEDIATE ACCEPTANCE AND THE PRICE INCLUDES ONLY THE MATERIAL LISTED BELOW.

EM NO	QUANTITY	ARTICLES AND DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
	1	<p>New Boehringer Model RC-14 Portable Concrete and Asphalt Recycling Plant.</p> <p>Boehringer RC-14 Recycle Crusher:</p> <p>This impact crusher is a horizontal shaft, fixed blow bar impactor especially developed for crushing of concrete and asphalt. Aggregate may also be processed.</p> <p>Feed opening: 37" x 57"</p> <p>It consists of a lower housing with AR wear plates. The rotor is of solid construction with high WR<sup>2</sup>, equipped with 4 blow bars made from special steel alloy castings that can be reversed and replaced vertically or horizontally. The rotor locks for safe maintenance. The bearings are mounted on shaft with replaceable adapter sleeves. The upper housing is protected with AR wear plates and designed with the rear part hinged, so it can be fully opened hydraulically. Two (2) impact mechanisms gravity hung with adjusting spindles (rear one adjusted hydraulically). Front apron is of single casting reversible. Rear apron fabricated with bolt-on impact plates.</p> <p>Feed Hood: of 3/4" thick welded steel reinforced construction with chain and rubber curtain. Feed spout lined 1-1/4".</p> <p>Recirculating Product Spout: 33" feed dia. made of 1/4" thick steel plate.</p>		

*aguzze*

*This Quotation includes Pages:*

ABOVE PRICES ARE F.O.B. Clearwater, Florida Area  
SHIPMENT Approximately 10 to 12 weeks.  
TERMS See Page 10.

*Bill Magness*  
Bill Magness /sw  
Projects Manager

QUOTATION (cont'd.)

LINDER INDUSTRIAL MACHINERY COMPANY  
 1601 S. Frontage Road  
 Plant City, Florida 33566

PAGE: 2  
 QUOTATION NO: 4005, Rev. #1  
 DATE: 1-30-94

ITEM NO	QUANTITY	ARTICLES AND DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
		<p>Discharge Chute: of 3/4" thick welded steel reinforced construction.</p> <p>Electric Motor: 300 HP, 460 volt, 3 Ph., 1750 RPM, Service Factor 1.15, WEG electric motor with thermistors.</p> <p>Crusher Drive: complete with eight (8) 8V-3000 belts, motor pulley, crusher pulley, motor slide rails, base, guard.</p> <p>Feeder: 57" wide x 20' long vibrating grizzly feeder with 14' long solid deck impact section heavily lined complete with 6' long deck grizzly section with adjustable Scandia 400 AR steel bars.</p> <p>Feeder Drive: Feeder is driven by a 60 HP, 460 volt, 3 Ph., 60 Hz., eddy current, TEFC electric motor with controller, fixed motor base, complete with v-belts, motor and feeder sheaves.</p> <p>Feed Hopper: 20 tons capacity receiving hopper constructed of 1" thick steel plate with reinforcing. Hopper folds for height clearance. Hopper and feeder can be removed as a single module when highway restrictions prevail.</p> <p>By-Pass Chute: Collecting hopper with flop gate located under grizzly section to contain material passing through grizzly section. Fabricated from 3/8" steel plate and reinforcing. 1/2" liners in areas of wear.</p> <p>Chassis: Heavy duty 21" deep I-beam trailer frame construction with fishplating in areas of stress. Chassis is complete with access ladder, operator's walkways and platform, handrails, and back plates, king pin.</p> <p>Under Carriage: Reyco triple axle suspension fitted with twelve (12) wheels and 11:00 x 20, 12 ply tires, air brakes, running and braking lights.</p> <p>Blocking Legs: Folding type extending wider than plant for greater stability. Heavy duty with cross bracings. Plant design requires only 10" lift above ground. Four (4) steel blocks removed for transport.</p> <p>Lifting Device: Consisting of five (5) hydraulic jacks mounted on trailer frame to elevate and</p>		

*variable feed?*  
*yes*

*By Pass  
 carry?*

QUOTATION (cont'd.)

LINDER INDUSTRIAL MACHINERY COMPANY

1601 S. Frontage Road  
Plant City, Florida 33566

PAGE: 3

QUOTATION NO: 4005, Rev. #1

DATE: 1-30-94

EM O	QUANTITY	ARTICLES AND DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
		level plant. Power unit consists of 35 gallon oil reservoir, pump, 7-1/2 HP motor, solenoid pushbuttons with controls, hoses, etc.		
		Boehringer design 48" x 6' long vibrating feeder mounted under crusher to transfer crushed material and rebar steel onto a product discharge conveyor.		
	1	New Portable Discharge System with Magnetic Separator: Includes belt protecting gathering hopper with replaceable liners, 48" x 40' channel frame type conveyor, 20° troughing idlers, oil resistant belt, 10' of skirtboard with rubber flashing, 71" track rigid axle with two (2) 10:00 x 20, 12 ply tires, lunette eye tongue, heavy gauge tool box, 10 HP, 1800 RPM, TEFC, electric motor drive.	299,775 <sup>00</sup>	
	1	New Dings Model 44CR Continuous Belt Magnet with stainless steel discharge belt, 5 HP, 1800 RPM, TEFC, electric motor drive, and magnet transformer.	31,147 <sup>00</sup>	
	1	New Superior 36" x 80' Portable Radial Stacking Conveyor.  <ul style="list-style-type: none"> <li>- Main frame 30" deep truss with 3" x 3" x 1/4" chord angles and lattice members of 1-1/2" x 1-1/2" x 3/16" with tapered head and tail sections.</li> <li>- Adjustable height undercarriage, manual raise with pin lock height adjustment.</li> <li>- Telescoping axle with single 10:00 x 20 tires with telescoping axle and swiveling wheels.</li> <li>- 25 HP head end drive Dodge TXT-515 shaft mount reducer, 1800 RPM, TEFC motor, v-belt drive, and drive guard. Drive designed for 600 TPH of 100#/CF of material at 300 FPM belt speed.</li> <li>- Drive pulley 16" dia. crown faced, herringbone lagged magnetic drum with cold rolled shaft.</li> <li>- Tail pulley 14" dia. crown faced, wing type pulley with cold rolled shaft.</li> <li>- Take-Ups screw type with 18" of travel.</li> <li>- Belting 2 ply, 1/8" x 1/16" covers, 220 PIW.</li> <li>- Belt splice Flexco mechanical steel fasteners.</li> <li>- Troughing Idlers - CEMA B, Superior 605 series, 5" dia. rolls, 35° trough, sealed for life ball bearings, placed 16" on center under loading area, 4' on center on balance of conveyor.</li> <li>- Return idlers - CEMA B, Superior 605 series, 5" dia. rolls, sealed for life ball bearings, placed 10' on center.</li> </ul>	19,139 <sup>00</sup>	

*Steel  
FAD Feeder*

*299,775<sup>00</sup>*

*Superior - M.J.*

*31,147<sup>00</sup>*

*19,139<sup>00</sup>*

QUOTATION (cont'd.)

LINDER INDUSTRIAL MACHINERY COMPANY  
 1601 S. Frontage Road  
 Plant City, Florida 33566

PAGE: 4  
 QUOTATION NO: 4005, Rev. #1  
 DATE: 1-30-94

ITEM NO	QUANTITY	ARTICLES AND DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
		<ul style="list-style-type: none"> <li>- Guarding - Tail pulley shield, v-belt drive guard, pinch points and nip guards on drive pulley.</li> <li>- Paint - Unit to be one (1) coat primer and one (1) coat enamel painted Superior <del>Orange</del> <i>Orange</i>.</li> <li>- Pivot type belt scraper with counterweight tensioning.</li> <li>- Towing eye for field transport.</li> <li>- Anchor pivot plate maintains tail end during radial travel.</li> <li>- Backstop for TXT-515 reducer.</li> <li>- Radial receiving hopper, 5' long with adjustable rubber flashing.</li> <li>- Fifth wheel hitch for road travel.</li> </ul> <p>1 New Superior 24" x 80' Portable Radial Stacking Conveyor.</p> <ul style="list-style-type: none"> <li>- Main frame, 24" deep truss with 2-1/2" x 2-1/2" x 1/4" chord angles and lattice members of 1-1/2" x 1-1/2" x 3/16" with tapered head and tail sections and extra chord angle full length from tail end to head end and under-carriage pinning point.</li> <li>- Adjustable height under carriage - manual raise with pin lock height adjustment.</li> <li>- Telescoping axle, with single 10:00 x 20 tires with telescoping axle and swiveling wheels.</li> <li>- 15 HP head end drive, Dodge TXT-415 shaft mount reducer, 1800 RPM, TEFC motor, v-belt drive, and drive guard. Drive designed for 300 TPH of 100#/CF of material at 300 FPM belt speed.</li> <li>- Drive pulley 16" dia. crowned faced, herring-bone lagged drum with cold rolled shaft.</li> <li>- Tail pulley 14" dia. crown faced, wing type pulley with cold rolled shaft.</li> <li>- Take-ups screw type with 18" of travel.</li> <li>- Belting 2 ply, 1/8" x 1/16" covers, 220 PIW.</li> <li>- Belt splice Flexco mechanical steel fasteners.</li> <li>- Troughing idlers - CEMA B, Superior 605 series, 5" dia. rolls, 35° trough, sealed for life ball bearings, placed 16" on center under loading area, 4' on center on balance of conveyor.</li> <li>- Return idlers - CEMA B, Superior 605 series, 5" dia. rolls, sealed for life ball bearings, placed 10' on center.</li> <li>- Guarding - Tail pulley shield, v-belt drive guard, pinch points and nip guards on drive pulley.</li> <li>- Paint - Unit to be one (1) coat primer and one (1) coat finish enamel painted Superior Orange.</li> <li>- Pivot type belt scraper with counterweight tensioning.</li> </ul>		

25,038.<sup>00</sup>  
 Picking Stations

QUOTATION (cont'd.)

LINDER INDUSTRIAL MACHINERY COMPANY  
 601 S. Frontage Road  
 Plant City, Florida 33566

PAGE: 5  
 QUOTATION NO: 4005, Rev. #1  
 DATE: 1-30-94

ITEM NO	QUANTITY	ARTICLES AND DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
		<ul style="list-style-type: none"> <li>- Towing eye - for field transport.</li> <li>- Anchor pivot plate - maintains tail end during radial travel.</li> <li>- Backstop - for TXT-415 reducer.</li> <li>- Radial receiving hopper, 5' long with adjustable rubber flashing.</li> <li>- Fifth wheel hitch, for road travel.</li> </ul>		
3		<p>New Superior 24" x 60' Portable Radial Stacking Conveyors.</p> <ul style="list-style-type: none"> <li>- Main frame, 24" deep truss with 2-1/2" x 2-1/2" x 1/4" chord angles and lattice members of 1-1/2" x 1-1/2" x 3/16" with tapered head and tail sections.</li> <li>- Adjustable height under carriage - manual raise with pin lock height adjustment.</li> <li>- Telescoping axle, with single 10:00 x 20 tires with telescoping axle and swiveling wheels.</li> <li>- 10 HP head end drive, Dodge TXT-315 shaft mount reducer, 1800 RPM, TEFC motor, v-belt drive, and drive guard. Drive designed for 300 TPH of 100#/CF of material at 300 FPM belt speed.</li> <li>- Drive pulley 16" dia. crowned faced, herring-bone lagged drum with cold rolled shaft.</li> <li>- Tail pulley 14" dia. crown faced, wing type pulley with cold rolled shaft.</li> <li>- Take-ups screw type with 18" of travel.</li> <li>- Belting 2 ply, 1/8" x 1/16" covers, 220 PIW.</li> <li>- Belt splice Flexco mechanical steel fasteners.</li> <li>- Troughing idlers - CEMA B, Superior 605 series, 5" dia. rolls, 35° trough, sealed for life ball bearings, placed 16" on center under loading area, 4' on center on balance of conveyor.</li> <li>- Return idlers - CEMA B, Superior 605 series, 5" dia. rolls, sealed for life ball bearings, placed 10' on center.</li> <li>- Gathering Hopper, 5' long with adjustable rubber flashing.</li> <li>- Guarding - Tail pulley shield, v-belt drive guard, pinch points and nip guards on drive pulley.</li> <li>- Paint - Unit to be one (1) coat primer and one (1) coat finish enamel painted Superior Orange.</li> <li>- Pivot type belt scraper with counterweight tensioning.</li> <li>- Towing eye - for field transport.</li> <li>- Anchor pivot plate - maintains tail end during radial travel.</li> <li>- Backstop - for TXT-315 reducer.</li> <li>- Radial receiving hopper.</li> <li>- Fifth wheel hitch, for road travel.</li> </ul>	<p>21,398<sup>00</sup></p>	
			<p>15,858<sup>00</sup></p>	

## **VIII. PROCESS WEIGHT DETERMINATION**



**CENTRAL FLORIDA TESTING LABORATORIES, INC.**  
 12625 - 40th Street North - Clearwater, Florida 33762  
 (727)572-8797 (800)248-CFTL

**ANGELO'S RECYCLED MATERIALS, INC.**  
 Reclaimed Asphalt & Concrete Crushing Unit No.3  
 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.		0.0	
		(with 25 min. down time) ▶ 12:15 p.m.			510.0

**PROCESS WEIGHT**

*\*\* all material crushed is measured across a weigh bridge*

$$Pw = \frac{\text{Total Tons Crushed}}{\text{Total Crushing Time}}$$

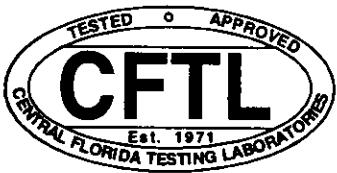
$$\frac{\text{Run No.IVE}}{Pw} = \frac{(510.0) \text{ tons}}{2 \text{ hour } 35 \text{ minutes}} = 197.4 \text{ ton/hr}$$

I certify that the above statements  
 are true to the best of my  
 knowledge and belief.

*[Signature]*  
 \_\_\_\_\_  
 Mr. Richard Bachet, Director of Florida Operations

## **IX. INITIAL COMPLAINT TESTING**





# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

*EP001 "Grizzly Feeder Hopper"*

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

COMPANY NAME  
**ANGELO'S Recycled Materials, Inc. Plant No.3**

STREET ADDRESS    CITY  
**2105 Vulcan Road    Apopka**

MAILING ADDRESS  
**Post Office Box 1493**

CITY    STATE    ZIP  
**Largo    Florida    33779-1493**

PHONE/KEY CONTACT    SOURCE PERMIT NUMBER  
 \_\_\_\_\_    **7770179-001-AO**

PROCESS EQUIPMENT    OPERATING MODE  
**Portable Crushing Unit No.3**    *\* See Below*

CONTROL EQUIPMENT    OPERATING MODE  
**Water Spray Bar System**    *35-40 PSI*

DESCRIBE EMISSION PT.  
*Material drops from front-end loader into Grizzly Feeder Hopper.*

DISTANCE TO EMISS. PT.    DIRECTION TO EMISS. PT. (DEGREES)  
 START *~165'* END *~165'*    START *271°(w)* END *271°(w)*

HEIGHT OF EMISS. PT.    HEIGHT TO EMISS. PT. REL. TO OBSERVER  
 START *~15'* END *~15'*    START *~11'* END *~11'*

VERTICAL ANGLE TO OBS. PT.    DIRECTION TO OBS. PT. (DEGREES)  
 START *20* END *20*    START *271°(w)* END *271°(w)*

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT.  
*START read @ Hopper lip    END read @ Hopper lip*

DESCRIBE EMISSIONS  
 START *None*    END *None*

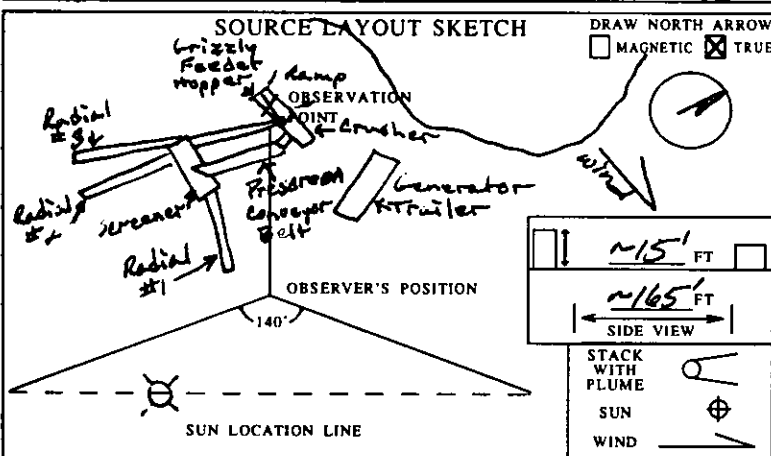
EMISSION COLOR    WATER DROPLET PLUME  
 START *None* END *None*     ATTACHED     DETACHED     NONE

DESCRIBE PLUME BACKGROUND  
 START *Trees*    END *Trees*

BACKGROUND COLOR    SKY CONDITIONS  
 START *Green* END *Green*    START *Overcast* END *Scattered*

WIND SPEED    WIND DIRECTION  
 START *2-3 mph* END *2-3 mph*    START *West* END *West*

AMBIENT TEMPERATURE    WET BULB TEMP.    PERCENT RH  
 START *79.8°F* END *75.9°F*    \_\_\_\_\_    *80%*



LAT: \_\_\_\_\_    LONG: \_\_\_\_\_    DECLINATION: \_\_\_\_\_

ADDITIONAL INFORMATION  
*No objectionable odors nor fugitives detected.*  
*See Process Weight section of test for PW.*  
*Crushed mixed asphalt and concrete.*

FORM NUMBER: \_\_\_\_\_    PAGE: *1* OF *1*

CONTINUED ON VEO NUMBER: \_\_\_\_\_

OBSERVATION DATE		START TIME				END TIME			
<i>9-27-2000</i>		<i>9:34:00 AM</i>				<i>10:51:45 AM</i>			
MIN	SEC				MIN	SEC			
	0	15	30	45		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	5	0	0	38	0	0	0	0
9	0	0	5	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	5	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	5	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

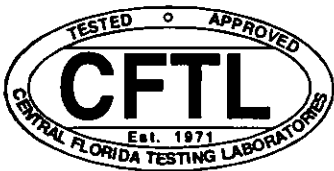
AVERAGE OPACITY: *0.1%*    HIGHEST SIX MINUTE INTERVAL: *0.8%*

OBSERVER'S NAME (PRINT): **Christopher L. Briley**

OBSERVER'S SIGNATURE: *Christopher L. Briley*    DATE: *9-27-2000*

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

*EP002 "Impact Crusher"*

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

FORM NUMBER: \_\_\_\_\_ PAGE 1 OF 1

COMPANY NAME  
**ANGELO'S Recycled Materials, Inc. Plant No.3**  
 STREET ADDRESS: **2105 Vulcan Road** CITY: **Apopka**  
 MAILING ADDRESS: **Post Office Box 1493**  
 CITY: **Largo** STATE: **Florida** ZIP: **33779-1493**  
 PHONE/KEY CONTACT: \_\_\_\_\_ SOURCE PERMIT NUMBER: **7770179-001-AO**

CONTINUED ON VEO NUMBER: \_\_\_\_\_

PROCESS EQUIPMENT: **Portable Crushing Unit No.3** OPERATING MODE: **\*See Below**  
 CONTROL EQUIPMENT: **Water Spray Bar System** OPERATING MODE: **30-40 psi**

OBSERVATION DATE: **3-27-2000** START TIME: **9:34:00 AM** END TIME: **10:51:45 AM**

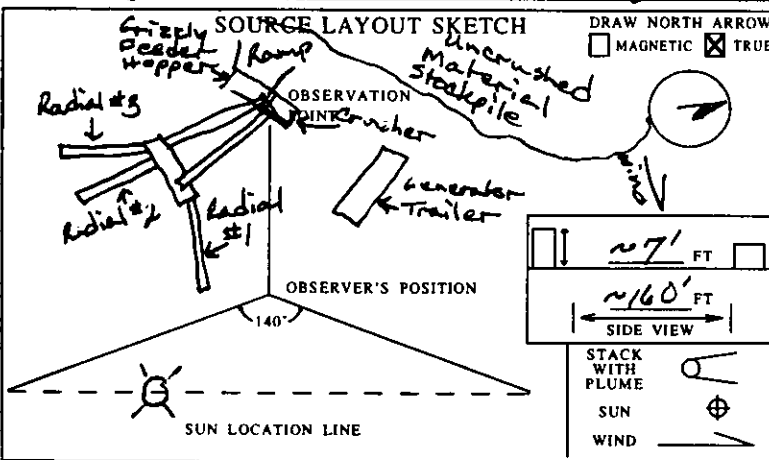
DESCRIBE EMISSION PT.  
**Drop point from crusher to material feed conveyor belt (prescreen conveyor belt).**  
 DISTANCE TO EMISS. PT. START **~160'** END **~160'** DIRECTION TO EMISS. PT. (DEGREES) START **274°(W)** END **274°(W)**  
 HEIGHT OF EMISS. PT. START **~7'** END **~7'** HEIGHT TO EMISS. PT. REL. TO OBSERVER START **~2'** END **~2'**

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

VERTICAL ANGLE TO OBS. PT. START **10** END **10** DIRECTION TO OBS. PT. (DEGREES) START **274°(W)** END **274°(W)**  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT. START **read @ drop point** END **read @ drop point.**

DESCRIBE EMISSIONS  
 START **None** END **None** WATER DROPLET PLUME:  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND  
 START **Plant Machinery** END **Plant Machinery** SKY CONDITIONS: **Overcast** END **scattered**  
 BACKGROUND COLOR: **Gray** WIND DIRECTION: **From West**  
 WIND SPEED: **2-8 mph** START **West** END **West**  
 AMBIENT TEMPERATURE: **73.8°F** WET BULB TEMP.: \_\_\_\_\_ PERCENT RH: **80%**

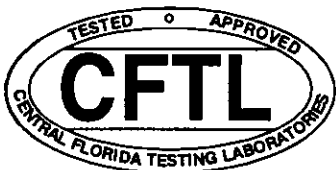


LAT: \_\_\_\_\_ LONG: \_\_\_\_\_ DECLINATION: \_\_\_\_\_

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

ADDITIONAL INFORMATION  
**No objectionable odors nor fugitives detected.**  
**See Process Weight section of test for PW.**  
**Crushed mixed asphalt and concrete.**

OBSERVER'S NAME (PRINT): **Christopher L. Briley**  
 OBSERVER'S SIGNATURE: *Christopher L. Briley* DATE: **3-27-2000**  
 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

*EP 003 - Vibrating Screener*

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

COMPANY NAME  
**ANGELO,S Recycled Materials, Inc. Plant No.3**

STREET ADDRESS  
**2105 Vulcan Road**

CITY  
**Apopka**

MAILING ADDRESS  
**Post Office Box 1493**

CITY  
**Largo** STATE  
**Florida** ZIP  
**33779-1493**

PHONE/KEY CONTACT SOURCE PERMIT NUMBER  
**7770179-001-AO**

PROCESS EQUIPMENT  
**Portable Crushing Unit No.3** OPERATING MODE  
*\*See below*

CONTROL EQUIPMENT  
**Water Spray Bar System** OPERATING MODE  
*38-40psi*

DESCRIBE EMISSION PT.  
*Top of vibrating screener where material is vibrated*

DISTANCE TO EMISS. PT. DIRECTION TO EMISS. PT. (DEGREES)

START *136'* END *136'* START *254°* END *254°*

HEIGHT OF EMISS. PT. HEIGHT TO EMISS. PT. REL. TO OBSERVER

START *~15'* END *~15'* START *~12'* END *~12'*

VERTICAL ANGLE TO OBS. PT. DIRECTION TO OBS. PT. (DEGREES)

START *80* END *80* START *254°* END *254°*

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT.

START *at top of screener* END *same*

DESCRIBE EMISSIONS  
*Occasional fugitive dust* ✓

EMISSION COLOR WATER DROPLET PLUME

START *Gray* END *Gray*  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND

START *sky* END *sky*

BACKGROUND COLOR SKY CONDITIONS

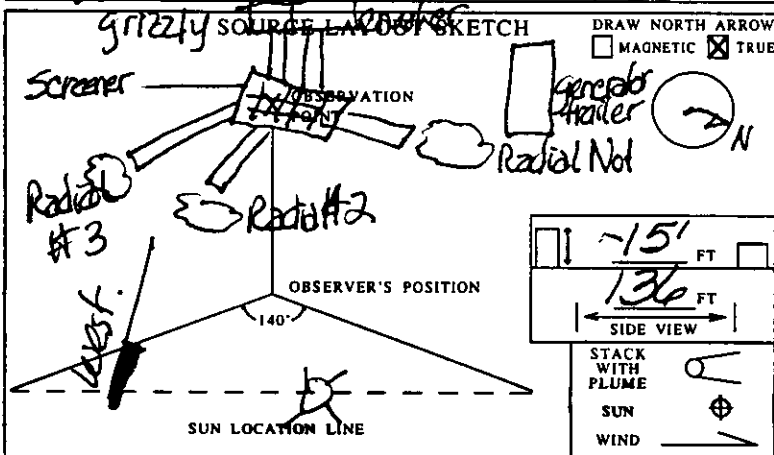
START *Blue/wh* END *Blue/wh* START *overcast* END *scattered*

WIND SPEED WIND DIRECTION

START *2-8 mph* END *2-8 mph* START *West from* END *West*

AMBIENT TEMPERATURE WET BULB TEMP. PERCENT RH

START *73.8°F* END *75.9°F* *80%*



LAT: LONG: DECLINATION

ADDITIONAL INFORMATION

*No objectionable odors nor fugitives detected*

*See Process Weight section for PW determination*

*Crushing reclaimed concrete/asphalt*

*Plant went down 18 minutes*

FORM NUMBER PAGE *1* OF *1*

CONTINUED ON VEO NUMBER

OBSERVATION DATE *03-27-2000* START TIME *9:30:00 AM* END TIME *10:47:45 AM*

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

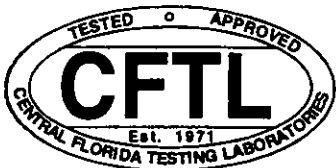
AVERAGE OPACITY *0.1%* HIGHEST SIX MINUTE INTERVAL *1.0%*

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

OBSERVER'S SIGNATURE *Bernard A. Ball, Jr.* DATE

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

*Crushed Material  
EP004 "Pre-screen Conveyor Belt"*

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

FORM NUMBER \_\_\_\_\_ PAGE 1 OF \_\_\_\_\_

COMPANY NAME  
**ANGELO'S Recycled Materials, Inc. Plant No.3**  
 STREET ADDRESS  
**2105 Vulcan Road**    CITY  
**Apopka**  
 MAILING ADDRESS  
**Post Office Box 1493**  
 CITY  
**Largo**    STATE  
**Florida**    ZIP  
**33779-1493**  
 PHONE/KEY CONTACT \_\_\_\_\_ SOURCE PERMIT NUMBER  
**7770179-001-AO**

CONTINUED ON VEO NUMBER \_\_\_\_\_

PROCESS EQUIPMENT  
**Portable Crushing Unit No.3**    OPERATING MODE  
*\* See Below*  
 CONTROL EQUIPMENT  
**Water Spray Bar System**    OPERATING MODE  
*38-40 PSI*

OBSERVATION DATE  
**8-27-2000**    START TIME  
**9:34:00 AM**    END TIME  
**10:57:45 AM**

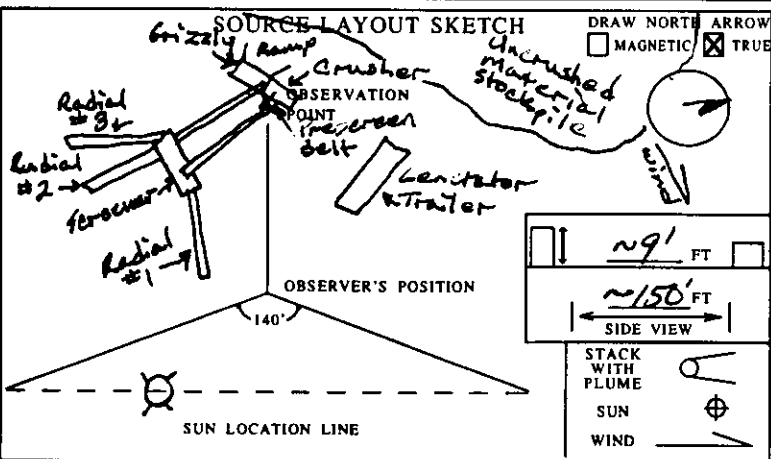
DESCRIBE EMISSION PT.  
*Pre-screen conveyor belt from crusher to magnet  
 ic material separator.*  
 DISTANCE TO EMISS. PT.    DIRECTION TO EMISS. PT. (DEGREES)  
 START *~150'*    END *~150'*    START *272°(W)*    END *272°(W)*  
 HEIGHT OF EMISS. PT.    HEIGHT TO EMISS. PT. REL. TO OBSERVER  
 START *~9'*    END *~9'*    START *~5'*    END *~5'*

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

VERTICAL ANGLE TO OBS. PT.    DIRECTION TO OBS. PT. (DEGREES)  
 START *10*    END *10*    START *272°(W)*    END *272°(W)*  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT.  
 START *read @ drop point*    END *read @ drop point*

DESCRIBE EMISSIONS  
 START *None*    END *None*  
 EMISSION COLOR    WATER DROPLET PLUME  
 START *None*    END *None*     ATTACHED     DETACHED     NONE

DESCRIBE PLUME BACKGROUND  
 START *Plant Machinery*    END *Plant machinery*  
 BACKGROUND COLOR    SKY CONDITIONS  
 START *Gray*    END *Gray*    START *Overcast*    END *hazy*  
 WIND SPEED    WIND DIRECTION  
 START *2-8 mph*    END *2-8 mph*    START *West*    END *West*  
 AMBIENT TEMPERATURE    WET BULB TEMP.    PERCENT RH  
 START *79.8°F*    END *75.9°F*    *80%*

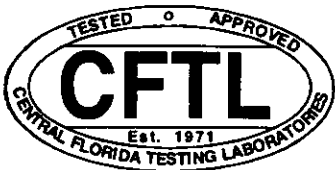


LAT: \_\_\_\_\_ LONG: \_\_\_\_\_ DECLINATION \_\_\_\_\_

AVERAGE OPACITY *0%*    HIGHEST SIX MINUTE INTERVAL *0%*

ADDITIONAL INFORMATION  
*No objectionable odors nor fugitives detected.*  
*See Process Weight section of test for PW.*  
*Crushed mixed asphalt and concrete.*

OBSERVER'S NAME (PRINT) **Christopher L. Briley**  
 OBSERVER'S SIGNATURE *Christopher L. Briley*    DATE **8-27-2000**  
 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

*EPO05 "Pre Screen Conveyor"*

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

FORM NUMBER \_\_\_\_\_ PAGE 1 OF 1

COMPANY NAME  
**ANGELO'S Recycled Materials, Inc. Plant No.3**

STREET ADDRESS    CITY  
**2105 Vulcan Road    Apopka**

MAILING ADDRESS  
**Post Office Box 1493**

CITY    STATE    ZIP  
**Largo    Florida    33779-1493**

PHONE/KEY CONTACT    SOURCE PERMIT NUMBER  
 \_\_\_\_\_    **7770179-001-AO**

CONTINUED ON VEO NUMBER \_\_\_\_\_

PROCESS EQUIPMENT    OPERATING MODE  
**Portable Crushing Unit No.3    \* See Below**

CONTROL EQUIPMENT    OPERATING MODE  
**Water Spray Bar System    38-40 psi**

OBSERVATION DATE    START TIME    END TIME  
**3-27-2000    11:06:00 AM    12:11:45 PM**

DESCRIBE EMISSION PT.  
*Pre Screen Conveyor Belt From Crushed Material*  
*Conveyor to Vibrating Screener.*

DISTANCE TO EMISS. PT.    DIRECTION TO EMISS. PT. (DEGREES)  
 START *~160'* END *~160'*    START *398°(NW)* END *398°(NW)*

HEIGHT OF EMISS. PT.    HEIGHT TO EMISS. PT. REL. TO OBSERVER  
 START *~5'* END *~5'*    START *~0'* END *~0'*

MIN	SEC	0	15	30	45	MIN	SEC	0	15	30	45
-----	-----	---	----	----	----	-----	-----	---	----	----	----

VERTICAL ANGLE TO OBS. PT.    DIRECTION TO OBS. PT. (DEGREES)  
 START *0°* END *0°*    START *398°(NW)* END *398°(NW)*

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSV. PT.  
 START *read @ drop pt. of crushed material conveyor same* END \_\_\_\_\_

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

DESCRIBE EMISSIONS  
 START *None*    END *None*

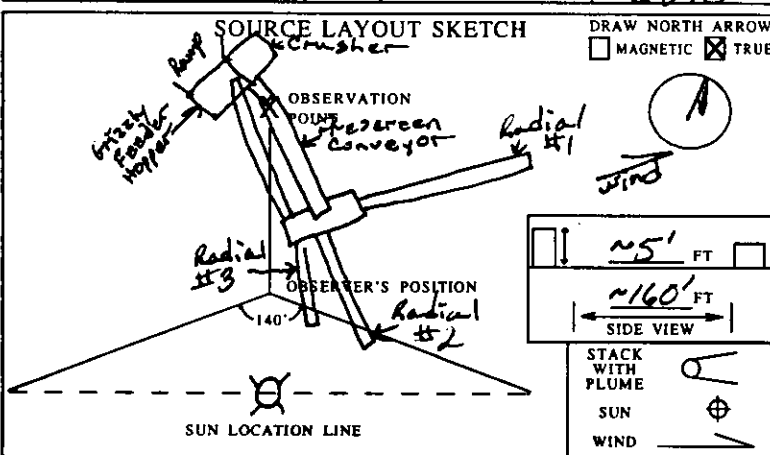
EMISSION COLOR    WATER DROPLET PLUME  
 START *None* END *None*     ATTACHED     DETACHED     NONE

DESCRIBE PLUME BACKGROUND  
 START *Plant Machinery*    END *Plant Machinery*

BACKGROUND COLOR    SKY CONDITIONS  
 START *Gray*    END *Gray*    START *Scattered*    END *Scattered*

WIND SPEED    WIND DIRECTION  
 START *5-8 mph*    END *5-8 mph*    START *SW*    END *SW*

AMBIENT TEMPERATURE    WET BULB TEMP.    PERCENT RH  
 START *75.90F*    END \_\_\_\_\_    \_\_\_\_\_    *68%*



AVERAGE OPACITY *0%*    HIGHEST SIX MINUTE INTERVAL *0%*

LAT: \_\_\_\_\_    LONG: \_\_\_\_\_    DECLINATION \_\_\_\_\_

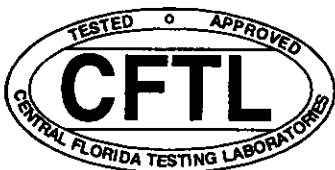
ADDITIONAL INFORMATION  
*No objectionable odors nor fugitives detected.*  
*see Process Weight section of test for PW.*  
*Crushed mixed asphalt and concrete.*

OBSERVER'S NAME (PRINT)    **Christopher L. Briley**

OBSERVER'S SIGNATURE    DATE  
*Christopher L. Briley*    *3-27-2000*

ORGANIZATION  
**Central Florida Testing Laboratories, Inc.**

CERTIFIED BY    DATE  
**E.T.A. - Tampa**    *2-22-2000*



# CENTRAL FLORIDA TESTING LABORATORIES, INC.

## VISIBLE EMISSIONS OBSERVATION FORM

EP 006 = Radial #1

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

FORM NUMBER: \_\_\_\_\_ PAGE 1 OF 1

COMPANY NAME: **ANGELO,S Recycled Materials, Inc. Plant No.3**  
 STREET ADDRESS: **2105 Vulcan Road** CITY: **Apopka**  
 MAILING ADDRESS: **Post Office Box 1493**  
 CITY: **Largo** STATE: **Florida** ZIP: **33779-1493**  
 PHONE/KEY CONTACT: \_\_\_\_\_ SOURCE PERMIT NUMBER: **7770179-001-AO**

CONTINUED ON VEO NUMBER: \_\_\_\_\_

OBSERVATION DATE: **03-27-2000** START TIME: **9:30:00 AM** END TIME: **10:49:45 AM**

PROCESS EQUIPMENT: **Portable Crushing Unit No.3** OPERATING MODE: **\*20 below**  
 CONTROL EQUIPMENT: **Water Spray Bar System** OPERATING MODE: **38-40 PSI**

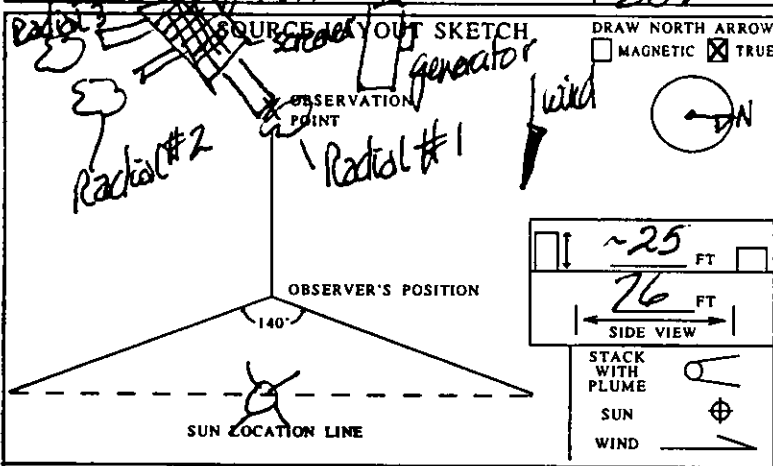
MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
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

DESCRIBE EMISSION PT.: **Drop Point from Radial Stacker to Stockpile ~15'**  
 DISTANCE TO EMISS. PT.: START **76'** END **76'** DIRECTION TO EMISS. PT. (DEGREES): START **280°** END **280°**  
 HEIGHT OF EMISS. PT.: START **~25'** END **~25'** HEIGHT TO EMISS. PT. REL. TO OBSERVER: START **~22'** END **~22'**

VERTICAL ANGLE TO OBS. PT.: START **140°** END **140°** DIRECTION TO OBS. PT. (DEGREES): START **280°** END **280°**  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT.: START **read @ drop pt.** END **read @ drop pt.**

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/wh** END **Blue/wh** SKY CONDITIONS: START **overcast** END **scattered**  
 WIND SPEED: START **2-8 mph** END **2-8 mph** WIND DIRECTION: START **West** END **West**  
 AMBIENT TEMPERATURE: START **72.8°F** END **75.9°F** WET BULB TEMP.: \_\_\_\_\_ PERCENT RH: **80%**

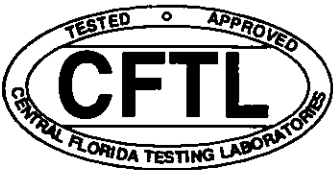


LAT: \_\_\_\_\_ LONG: \_\_\_\_\_ DECLINATION: \_\_\_\_\_

AVERAGE **0%** HIGHEST SIX MINUTE INTERVAL **0%**

ADDITIONAL INFORMATION:  
**No objectionable nor fugitives detected**  
**See Process Weight section for Pw Determination**  
**Crushing reclaimed asphalt & concrete**  
**Plant shut down for 18 minutes**

OBSERVER'S NAME (PRINT): **Bernard A. Ball, Jr.**  
 OBSERVER'S SIGNATURE: *Bernard A. Ball, Jr.* DATE: **3/27/2000**  
 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**

*Radial No. 2 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.3**  
 STREET ADDRESS  
**2105 Vulcan Road**      CITY  
**Apopka**  
 MAILING ADDRESS  
**Post Office Box 1493**  
 CITY  
**Largo**      STATE  
**Florida**      ZIP  
**33779-1493**  
 PHONE/KEY CONTACT      SOURCE PERMIT NUMBER  
**7770179-001-AO**

OBSERVATION DATE 03-21-2000      START TIME 11:03:00 AM      END TIME 12:09:45 PM

PROCESS EQUIPMENT  
**Portable Crushing Unit No.3**      OPERATING MODE  
*\*see below*  
 CONTROL EQUIPMENT  
**Water Spray Bar System**      OPERATING MODE  
**38-40 psi**

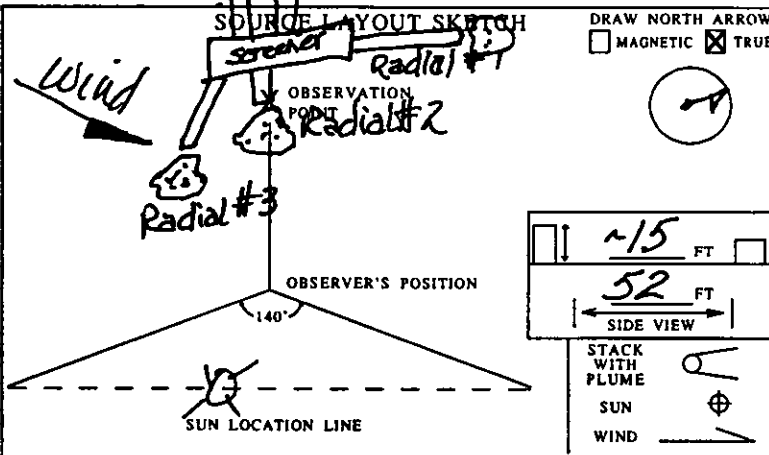
MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
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

DESCRIBE EMISSION PT.  
*Drop Point from Radial Stacker Belt #2 to stockpile ~ 10'*  
 DISTANCE TO EMISS. PT.      DIRECTION TO EMISS. PT. (DEGREES)  
 START 52'      END 52'      START 318°      END 318°  
 HEIGHT OF EMISS. PT.      HEIGHT TO EMISS. PT. REL. TO OBSERVER  
 START ~15'      END ~15'      START ~12'      END ~12'

VERTICAL ANGLE TO OBS. PT.      DIRECTION TO OBS. PT. (DEGREES)  
 START      END 8°      START 318°      END 318°  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT.  
 START Radial drop point      END same

DESCRIBE EMISSIONS  
 START None      END None  
 EMISSION COLOR      WATER DROPLET PLUME  
 START None      END None       ATTACHED       DETACHED       NONE

DESCRIBE PLUME BACKGROUND  
 START SKY      END SKY  
 BACKGROUND COLOR      SKY CONDITIONS  
 START Blue/wh      END Blue/wh      START Ptly cldy      END Ptly cldy  
 WIND SPEED      WIND DIRECTION  
 START 5-8 mph      END 5-8 mph      START SW FROM      END SW  
 AMBIENT TEMPERATURE      WET BULB TEMP.      PERCENT RH.  
 START 76.3°F      END 77.2°F      69%



LAT: \_\_\_\_\_ LONG: \_\_\_\_\_ DECLINATION \_\_\_\_\_

AVERAGE OPAVITY 0%      HIGHEST SIX MINUTE INTERVAL 0%

ADDITIONAL INFORMATION  
*No objectionable odors no fugitives. \*see Process Weight statement for Pb determination. Crushing mixed concrete and asphalt plant shut down 7 minutes*

OBSERVER'S NAME (PRINT) **Bernard A. Ball, Jr.**  
 OBSERVER'S SIGNATURE *Bernard A. Ball, Jr.*      DATE 3/27/00  
 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

Radial No. 3 EP-008

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

FORM NUMBER \_\_\_\_\_ PAGE 1 OF 1

COMPANY NAME  
**ANGELO'S Recycled Materials, Inc. Plant No.3**  
 STREET ADDRESS  
**2105 Vulcan Road** CITY  
**Apopka**  
 MAILING ADDRESS  
**Post Office Box 1493**  
 CITY  
**Largo** STATE  
**Florida** ZIP  
**33779-1493**  
 PHONE/KEY CONTACT SOURCE PERMIT NUMBER  
**7770179-001-AO**

CONTINUED ON VEO NUMBER \_\_\_\_\_

OBSERVATION DATE  
03-27-2000 START TIME  
11:03:00 AM END TIME  
12:07:45 PM

PROCESS EQUIPMENT  
**Portable Crushing Unit No.3** OPERATING MODE  
*\*see below*  
 CONTROL EQUIPMENT  
**Water Spray Bar System** OPERATING MODE  
**38-40 psi**

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

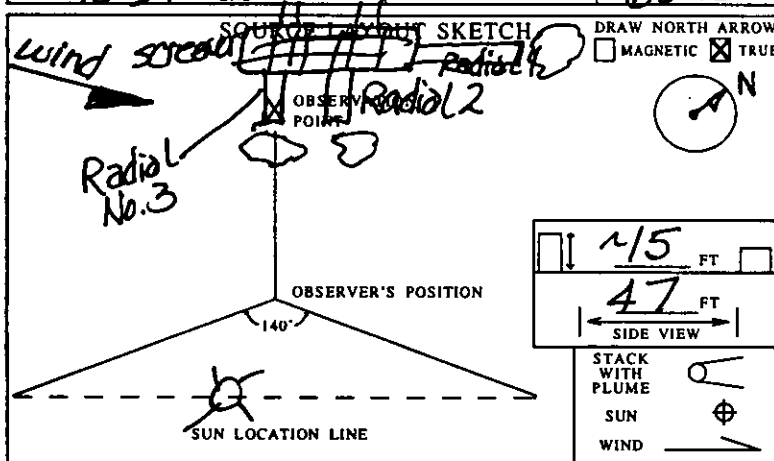
DESCRIBE EMISSION PT.  
**Drop Point from Radial Stacker Belt No. 3 to stockpile**

DISTANCE TO EMISS. PT.  
 START 47' END 47' DIRECTION TO EMISS. PT. (DEGREES)  
 START 326° END 326°  
 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 8° END 8° DIRECTION TO OBS. PT. (DEGREES)  
 START 326° END 326°  
 APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT.  
 START read a drop pt. END same

DESCRIBE EMISSIONS  
 START None END None  
 EMISSION COLOR WATER DROPLET PLUME  
 START None END None  ATTACHED  DETACHED  NONE

DESCRIBE PLUME BACKGROUND  
 START SKY END SKY  
 BACKGROUND COLOR SKY CONDITIONS  
 START Blue/whk END Blue/whk START Phycldy END Phycldy  
 WIND SPEED WIND DIRECTION  
 START 3-8 mph END 5-8 mph START SW END SW  
 AMBIENT TEMPERATURE WET BULB TEMP. PERCENT RH  
 START 76.94 END \_\_\_\_\_ START \_\_\_\_\_ END \_\_\_\_\_ 69%



LAT: \_\_\_\_\_ LONG: \_\_\_\_\_ DECLINATION \_\_\_\_\_

AVERAGE OPACITY \_\_\_\_\_ HIGHEST SIX MINUTE INTERVAL  
0% 0/10

ADDITIONAL INFORMATION  
*No objectionable odors nor fugitives detected.*  
*\*see Process Weight Statement for PW determination*  
*Crushing reclaimed concrete & asphalt*  
*\*plant shut down for 7 minutes*

OBSERVER'S NAME (PRINT)  
**Bernard A. Ball, Jr.**  
 OBSERVER'S SIGNATURE  
*Bernard A. Ball, Jr.* DATE  
3/27/00  
 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

*EP 009 - GenSet*

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

COMPANY NAME  
**ANGELO,S Recycled Materials, Inc. Plant No.3**

STREET ADDRESS      CITY  
**2105 Vulcan Road      Apopka**

MAILING ADDRESS  
**Post Office Box 1493**

CITY      STATE      ZIP  
**Largo      Florida      33779-1493**

PHONE/KEY CONTACT      SOURCE PERMIT NUMBER  
**7770179-001-AO**

FORM NUMBER      PAGE **1** OF **1**

CONTINUED ON VEO NUMBER

PROCESS EQUIPMENT      OPERATING MODE  
**Portable Crushing Unit No.3      \*See below**

CONTROL EQUIPMENT      OPERATING MODE  
**Water Spray Bar System      38-40psi**

OBSERVATION DATE		START TIME				END TIME					
<b>03-27-2000</b>		<b>9:38:00 AM</b>				<b>10:47:45 AM</b>					
MIN	SEC	0	15	30	45	MIN	SEC	0	15	30	45
1	0	0	0	0	0	31	0	0	0	0	0
2	0	0	0	0	0	32	0	0	0	0	0
3	0	0	0	0	0	33	0	0	0	0	0
4	0	0	0	0	0	34	0	0	0	0	0
5	0	0	0	0	0	35	0	0	0	0	0
6	0	0	0	0	0	36	0	0	0	0	0
7	0	0	0	0	0	37	0	0	0	0	0
8	0	0	0	0	0	38	0	0	0	0	0
9	0	0	0	0	0	39	0	0	0	0	0
10	0	0	0	0	0	40	0	0	0	0	0
11	0	0	0	0	0	41	0	0	0	0	0
12	0	0	0	0	0	42	0	0	0	0	0
13	0	0	0	0	0	43	0	0	0	0	0
14	0	0	0	0	0	44	0	0	0	0	0
15	0	0	0	0	0	45	0	0	0	0	0
16	0	0	0	0	0	46	0	0	0	0	0
17	0	0	0	0	0	47	0	0	0	0	0
18	0	0	0	0	0	48	0	0	0	0	0
19	0	0	0	0	0	49	0	0	0	0	0
20	0	0	0	0	0	50	0	0	0	0	0
21	0	0	0	0	0	51	0	0	0	0	0
22	0	0	0	0	0	52	0	0	0	0	0
23	0	0	0	0	0	53	0	0	0	0	0
24	0	0	0	0	0	54	0	0	0	0	0
25	0	0	0	0	0	55	0	0	0	0	0
26	0	0	0	0	0	56	0	0	0	0	0
27	0	0	0	0	0	57	0	0	0	0	0
28	0	0	0	0	0	58	0	0	0	0	0
29	0	0	0	0	0	59	0	0	0	0	0
30	0	0	0	0	0	60	0	0	0	0	0

DESCRIBE EMISSION PT.  
*exhaust from generator to north side of generator trailer*

DISTANCE TO EMISS. PT.      DIRECTION TO EMISS. PT. (DEGREES)  
 START **206'** END **206'**      START **292°** END **292°**

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

VERTICAL ANGLE TO OBS. PT.      DIRECTION TO OBS. PT. (DEGREES)  
 START **30** END **30**      START **292°** END **292°**

APPROX. DISTANCE AND DIRECTION FROM EMISS. PT. TO OBSERV. PT.  
 START **@ exhaust exit** END **@ exhaust exit**

DESCRIBE EMISSIONS  
 START **None** END **None**

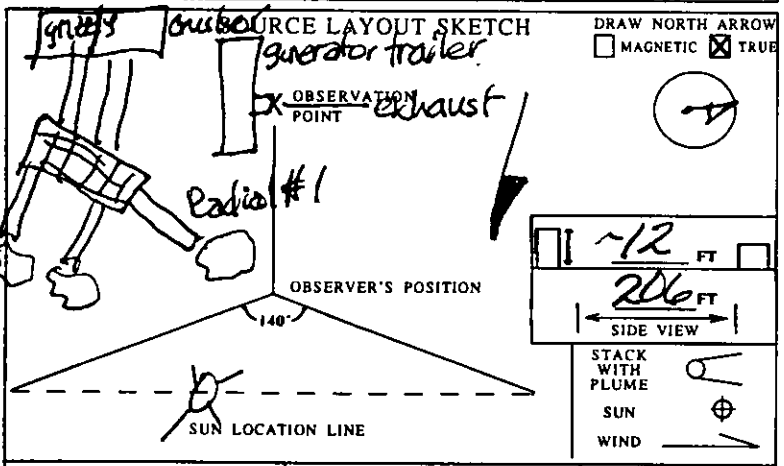
EMISSION COLOR      WATER DROPLET PLUME  
 START **None** END **None**       ATTACHED       DETACHED       NONE

DESCRIBE PLUME BACKGROUND  
 START **SKY** END **SKY**

BACKGROUND COLOR      SKY CONDITIONS  
 START **Gray** END **Blue/Wk**      START **Cloudy** END **Physcky**

WIND SPEED      WIND DIRECTION  
 START **2-8 mph** END      START **West** END **from**

AMBIENT TEMPERATURE      WET BULB TEMP.      PERCENT RH  
 START **73.8°F** END **75.9°F**           **80%**



LAT:      LONG:      DECLINATION

ADDITIONAL INFORMATION  
*No objectionable odors nor fugitives detected. Generator on maximum for test. Consuming Virtek No. 2 diesel fuel @ 16.2 gal/hr. Plant went down 18 minutes*

AVERAGE CLOUDY      HIGHEST SIX MINUTE INTERVAL  
**0%**      **0%**

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

OBSERVER'S SIGNATURE      *Bernard A. Ball, Jr.*      DATE **3/27/2000**

ORGANIZATION      **Central Florida Testing Laboratories, Inc.**

CERTIFIED BY      **E.T.A. - Tampa**      DATE **2-22-2000**