00-110

AIR CONSTRUCTION PERMIT APPLICATION

Mobile Concrete Crushing Operation
Statewide Project Sites

RECEIVED
MAR 30 2000
BUREAU OF AIR REGULATION

Prepared For:

Samsula Recycling, Inc.
363 State Road 415
New Smyrna Beach, Florida 32168

Prepared By:

COLELLA & ASSOCIATES, INC.
805 Smokerise Boulevard
Port Orange, Florida 32127

March 2000

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TABLE OF CONTENTS

INTRODUCTION / SUMMARY

1. Samsula Recycling, Inc. (Samsula) purchased and began operating a concrete crusher in February 2000 at various project sites within Florida. In March 2000, the operation was discontinued because an air operating permit was not obtained from the Florida Department of Environmental Protection (FDEP). Upon receipt of the air construction and subsequent air operating permits, Samsula plans to operate the mobile crusher at project sites across Florida as opportunities arise. Currently, Samsula has project sites in Seminole, Orange, and Volusia Counties. Samsula anticipates the crusher will primarily (more than 50 percent of the time) be operated at the Samsula Landfill in New Smyrna Beach, Volusia, Florida (see Site Location Map, Figure 1).

2. The crushing operation includes an Eagle 1200 Crusher, a rubber tired loader, and discharge conveyors. Concrete debris is delivered to the project site by trucks and stockpiled. The debris is sized if required to fit into the crusher's hopper. The loader feeds the hopper of the Eagle 1200 Crusher (see Appendix A for details and photographs) which has a potential to process debris at a rate of 120 tons per hour (see Appendix B). The concrete debris is crushed to obtain processed aggregate within a 3/8 and 1/2 inch range. Because of the various sized concrete debris being crushed and the desired size of the processed aggregate, Samsula achieves an operational rate of approximately 80 tons per hour. The processed materials are discharged on conveyors (2) into stockpiles (2) and/or trucks as aggregates less than and greater than 3/8 inch in size. A Process Flow Diagram is provided as Figure 2.

3. The potential emission from the crushing of the concrete debris and work area is particulate matter (PM), dust. The potential emissions from the fuel (diesel) powered loader and crusher's generator are PM, carbon monoxide, nitrogen oxides, sulfur dioxide, and volatile organic compounds.

4. Samsula operates water suppression equipment (water truck for the work area, water hoses for the stockpiles, and water spray nozzles in the concrete crusher's hopper and at the loading point from the crusher onto the discharge conveyors) when concrete debris is being crushed to minimize the potential of dust generation. Samsula's Watering Plan is presented in Appendix C.

5. The permit application (Tab 1.0) and reference materials (Figures 1 and 2, and Appendices A, B, and C) are provided to document the operation, equipment being used, emissions, and methods to control the emissions. The Samsula equipment and

operational standards meet the FDEP requirements (62-210, 62-212, 62-296.711, and 62-297) for stationary sources and emissions monitoring. The Samsula crushing operation is exempt from the applicable federal regulation, 40 CFR 60.670 (Subpart OOO), because the crusher is mobile and its operating capacity is less than 150 tons per hour (40 CFR 60.670(c)(2)).

No — OOO is based on nameplate capacity of crusher — not 'after process' which can be bypassed!

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: **Samsula Recycling, Inc.**	
2. Site Name: **Statewide (facility is not fixed based)**	
3. Facility Identification Number: [X] Unknown	
4. Facility Location: **Mobile Facility to be located at project site** Street Address or Other Locator: **Volusia, Seminole, and Orange Counties** City: County: Zip Code:	
5. Relocatable Facility? [X] Yes [ ] No	6. Existing Permitted Facility? [ ] Yes [X] No

Application Contact

1. Name and Title of Application Contact: **Mr. Michael Stokes, Manager**
2. Application Contact Mailing Address: Organization/Firm: **Samsula Recycling, Inc.** Street Address: **363 S. R. 415** City: **New Smyrna Beach** State: **FL** Zip Code: **32168**
3. Application Contact Telephone Numbers: Telephone: **(904) 423-6769** Fax: **(904) 423-6769**

Application Processing Information (DEP Use)

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

7775N2-9

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:_____

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.

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

Owner/Authorized Representative

1. Name and Title of Owner/Authorized Representative:
   Mr. Michael Stokes, Manager

2. Owner/Authorized Representative Mailing Address:
   Organization/Firm: **Samsula Recycling, Inc.**
   Street Address: **363 S. R. 415**
   City: **New Smyrna Beach** State: **FL** Zip Code: **32168**

3. Owner/Authorized Representative Telephone Numbers:
   Telephone: **(904) 423-6769** Fax: **(904)423-6769**

4. Owner/Authorized Representative Statement:

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

   Signature Date 03/2/00

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: **James C. Colella**
   Registration Number: **41545**

2. Professional Engineer Mailing Address:
   Organization/Firm: **Colella & Associates, Inc.**
   Street Address: **805 Smokerise Boulevard**
   City: **Port Orange** State: **FL** Zip Code: **32127**

3. Professional Engineer Telephone Numbers:
   Telephone: **(904) 322-9080** Fax: **(904) 322-0068**

4. Professional Engineer Statement:

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

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

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

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [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.

James C. Bellah — 21 MAR 00

Signature — Date

41545

(seal)

* Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
001	Concrete Crusher and Associated Operations (Hopper Loading of Raw Material, Conveyor Stockpiling of Crushed Materials, Loading of Trucks of Crushed Materials)	AC1D	$2,000

Needs to separate emissions units — could be single unit if not 000

Where is generator or power unit?

Probably exempt

Application Processing Fee

Check one: [X] Attached - Amount: $ 2,000 [ ] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:

Samsula Recycling, Inc., operates a concrete crusher to recycle concrete debris. Concrete debris is received in various sizes, stockpiled and then processed through the crusher to produce sized aggregate for re-use. The concrete debris is loaded into the crusher by a rubber tired loader, crushed to the desired size, and discharged by conveyors into two distinct stockpiles (less than and greater than 3/8" diameter materials) for subsequent loading into trucks and/or into trucks. Water is applied to the raw and processed materials by spray nozzles at three (3) locations at a rate controlled by the crusher's operator. Depending on the type of concrete debris being handled, water is applied prior to the debris being loaded into the crusher's hopper, water is applied in the hopper as the material is crushed, and water is applied to the processed materials as they are loaded onto the discharge conveyors for stockpiling. Water is also applied to the stockpiled concrete debris and surrounding surface area to minimize dust generation from the wind and the truck and loader traffic. Samsula Recycling, Inc., operates the crushing activity relatively dust free; that is, applying an adequate volume of water to the raw and processed materials, stockpiles, and roads.

Very small capacity would be for quarter with larger size grade

2. Projected or Actual Date of Commencement of Construction: **February 28, 2000**

3. Projected Date of Completion of Construction: **February 28, 2000**

Application Comment

The existing Eagle 1200 concrete crusher (see Appendix A for equipment details) has the capacity to process 200 tons of raw material per hour without any screens. Based on the planned sizing to be performed, the maximum capacity of the crusher is approximately 120 tons per hour (see Appendix B for operating details).

Samsula Recycling, Inc., proposes to perform concrete debris crushing operations at various locations throughout Florida. Currently, Samsula Recycling, Inc., will operate the equipment at project sites in Volusia, Seminole, and Orange Counties.

No way this can be federally enforceable

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: **Mobile Facility - Various Locations** Zone: East (km): North (km):			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): Longitude (DD/MM/SS):			
3. Governmental Facility Code: **0**	4. Facility Status Code: **C**	5. Facility Major Group SIC Code: **32**	6. Facility SIC(s):
7. Facility Comment (limit to 500 characters): **The crusher is a mobile unit and will be located at various project sites across the state of Florida, with current projects in Volusia, Seminole and Orange Counties. Based on projections, the crusher will be primarily located at the Samsula Landfill at 363 S. R. 415 in New Smyrna Beach, Volusia County, Florida.** — 6 months/yr Limit??			

Facility Contact

1. Name and Title of Facility Contact: **Mr. Michael Stokes, Manager**
2. Facility Contact Mailing Address: Organization/Firm: **Samsula Recycling, Inc.** Street Address: **363 S. R. 415** City: **New Smyrna BEach** State: **FL** Zip Code: **32168**
3. Facility Contact Telephone Numbers: Telephone: **(904) 423-6769** Fax: **(904)423-6769**

Facility Regulatory Classifications

Check all that apply:

1. [ ] Small Business Stationary Source?	[ ] Unknown
2. [ ] Synthetic Non-Title V Source?	
3. [ ] Synthetic Minor Source of Pollutants Other than HAPs?	
4. [ ] Synthetic Minor Source of HAPs?	
5. [ ] One or More Emissions Units Subject to NSPS?	
6. [ ] One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?	
7. Facility Regulatory Classifications Comment (limit to 200 characters): **The facility is a minor source respective to particulate matter, is portable, and has a capacity of 120 tons per hour (see Appendix B). The facility is not regulated by NSPS, 40CFR60.670 (Subpart OOO), because of an exemption, 40CFR60.670(c)(2).**	

Rule Applicability Analysis

- **62-204 General Provisions**
- **62-210 Stationary Sources - Stationary Sources**
- **62-212 Stationary Sources - Preconstruction Review**
- **62-296 Stationary Sources - Emissions Standards (62-296.711 Materials Handling, Sizing, Crushing and Grinding Operations)**
- **62-297 Stationary Sources - Emissions Monitoring**

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap lb/hour	tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
PM	**B**	**---**	**10.73**	**Other**	**Hours of operation times the emissions factor**
CO	**B**	**---**	**4.5**	**Other**	**Hours of operation times the emissions factor**
NOX	**B**	**---**	**21.1**	**Other**	**Hours of operation times the emissions factor**
VOC	**B**	**---**	**1.4**	**Other**	**Hours of operation times the emissions factor**
SO2	**B**	**---**	**1.72**	**Other**	**Hours of operation times the emissions factor**

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location:
   [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
   Facility is mobile and will be located at project site. The crusher will primarily be based at the Samsula Landfill. See Figure 1.

2. Facility Plot Plan:
   [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested

3. Process Flow Diagram(s):
   [X] Attached, Document ID: **FIG. 2** [ ] Not Applicable [ ] Waiver Requested

4. Precautions to Prevent Emissions of Unconfined Particulate Matter:
   [X] Attached, Document ID: **APP. C** [ ] Not Applicable [ ] Waiver Requested

5. Supplemental Information for Construction Permit Application:
   [ ] Attached, Document ID:_____ [X] Not Applicable

6. Supplemental Requirements Comment: **N/A**

Emissions Unit Information Section 1 of 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

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

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

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

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

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

Diesel powered equipment.
Fugitive particulate emissions from concrete debris crushing operation.

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

4. Emissions Unit Status Code:	5. Initial Startup Date:	6. Emissions Unit Major Group SIC Code:
C	**February 28, 2000**	**32**

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

Fugitive emissions are possible from the handling of raw materials (concrete debris) as being placed into crusher's hopper, the crushing of the raw material into the desired size(s), the handling of the processed materials on conveyors (2) and loading the processed materials onto trucks.

All handling and crushing equipment are diesel fueled with exhaust pipes.

Emissions Unit Information Section 1 of 1

Emissions Unit Control Equipment

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

Fugitive Particulate Emissions - Spray bars are provided at the potential emissions points on the crushers equipment; hopper and loading points of the processed material conveyors (2). Stockpiles are watered by hoses and haul roads by water trucks.

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

Emissions Unit Details

1. Package Unit: **Concrete Crusher**
   Manufacturer: **Eagle** Model Number: **1200**
2. Generator Nameplate Rating: **N/A** MW
3. Incinerator Information: **N/A**
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: **N/A** mmBtu/hr
2. Maximum Incineration Rate: **N/A** lb/hr tons/day
3. Maximum Process or Throughput Rate: **120 tons per hour (see Appendix B)**
4. Maximum Production Rate: **120 tons per hour (see Appendix B)**
5. Requested Maximum Operating Schedule:
   16 hours/day **7** days/week
   52 weeks/year **5,824** hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):

For flexibility, the proposed operating schedule is required.

Emissions Unit Information Section 1 of 1

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **N/A**	2. Emission Point Type Code: **4**

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):

FUGITIVE PARTICULATE EMISSIONS - Crusher's Hopper, Processed Materials Conveyors (2), Stockpiles of Concrete Debris and Processed Materials, and Truck and Loader Traffic.

DIESEL FUEL EXHAUST - Loader and Crusher's Generator

4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:

001

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

11. Maximum Dry Standard Flow Rate: **N/A** dscfm	12. Nonstack Emission Point Height: **4 (CONVEYORS), 15 (EQUIPMENT)** feet

13. Emission Point UTM Coordinates:

Zone: East (km): North (km):

14. Emission Point Comment (limit to 200 characters): **The emissions are fugitive from the crusher's hopper and conveyors while handling the debris and processed materials and from the equipment's engine's exhausts. The exhaust pipes of the equipment's diesel engines are approximately 15 feet above the ground surface.**

Emissions Unit Information Section 1 of 1

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Diesel rubber tired loader to handle concrete debris and processed materials.**		
2. Source Classification Code (SCC): **20400402**	3. SCC Units: **Thousand Gallons Burned**	
4. Maximum Hourly Rate: **N/A**	5. Maximum Annual Rate: **35**	6. Estimated Annual Activity Factor: **N/A**
6. Maximum % Sulfur: **N/A**	7. Maximum % Ash: **N/A**	8. Million Btu per SCC Unit: **N/A**
9. Segment Comment (limit to 200 characters): **Based on an approximate rate of 6 gallons of diesel per hour to operate the loader.** **6 gal/hr x 16 hr/day x 365 days/year ÷ 1,000 = 35 thousand gallons burned**		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Diesel generator to power the crusher and conveyors.**		
2. Source Classification Code (SCC): **20400402**	3. SCC Units: **Thousand Gallons Burned**	
4. Maximum Hourly Rate: **N/A**	5. Maximum Annual Rate: **35**	6. Estimated Annual Activity Factor: **N/A**
6. Maximum % Sulfur: **N/A**	7. Maximum % Ash: **N/A**	8. Million Btu per SCC Unit: **N/A**
9. Segment Comment (limit to 200 characters): **Based on an approximate rate of 6 gallons of diesel per hour to operate the generator.** **6 gal/hr x 16 hr/day x 365 days/year ÷ 1,000 = 35 thousand gallons burned**		

Emissions Unit Information Section 1 of 1

Pollutant Detail Information Page 1 of 7

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**		2. Pollutant Regulatory Code: **WP**
3. Primary Control Device Code: **061**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **Working Area** lb/hour **9** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **6.2 lbs / miles vehicle travelled** Reference: **FIRE 6.22 / SCC 30502504**		9. Emissions Method Code: **3**

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

The truck and loader traffic cover a relatively small area around the crusher. Assumes 8 miles per day of the equipment traffic movement.

8 miles per day x 6.2 lbs./mile x 365 days/year + 2,000 lbs/ton = 9 tons/year

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

The emissions are based on no reduction by watering. Samsula Recycling will water the work area to minimize dust generation by the equipment traffic.

Allowable Emissions Allowable Emissions _____ of _____ **N/A**

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 1 of 1

Pollutant Detail Information Page 2 of 7

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**		2. Pollutant Regulatory Code: **WP**
3. Primary Control Device Code: **061**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **Crushing and Conveying Operations** lb/hour **0.25** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.0007 lb. / ton of concrete debris processed** Reference: **FIRE 6.22 / SCC 30502001**		9. Emissions Method Code: **3**

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

The crushing operation consists of crushing concrete debris. The conveying operation consists of transporting processed aggregate to the stockpiles and/or trucks.

At the maximum capacity of the crusher, 120 tons per hour, the potential emissions are calculated by:

120 tons per hour x 5,824 hours/year x 0.0007 lb/ton ÷ 2,000 lbs/ton = 0.25 tons/year

11. Pollutant Potential Emissions Comment (limit to 200 characters):
The potential emissions are based on the equipment manufacturer's design. Based on actual operation, the subject equipment generally produces approximately 80 tons per hour, reducing the potential emissions to approximately 0.25 tons/year.
The emissions are based on no reduction by watering. Samsula Recycling will utilize water sprays in the hopper and on the conveyors to minimize dust generation.

Allowable Emissions Allowable Emissions _____ of _____ **N/A**

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 1 of 1

Pollutant Detail Information Page 3 of 7

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **CO**		2. Pollutant Regulatory Code: **EL**
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **Crusher Generator and Loader** lb/hour **4.5** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **130 lb. / 1,000 gallons diesel** Reference: **FIRE 6.22 / SCC 20400402**		9. Emissions Method Code: **3**

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

Based on 12 gallons per hour (crusher generator and loader), the potential emissions are calculated by:

12 gallons per hour x 5,824 hours/year x 130 lb/1,000gal ÷ 2,000 lbs/ton = 4.5 tons/year

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

Allowable Emissions Allowable Emissions _____ of _____ **N/A**

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

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

Emissions Unit Information Section 1 of 1

Pollutant Detail Information Page 4 of 7

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **NOX**		2. Pollutant Regulatory Code: **EL**
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **Crusher's Generator and Loader** lb/hour **21.1** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **604 lb. / 1,000 gallons diesel** Reference: **FIRE 6.22 / SCC 20400402**		9. Emissions Method Code: **3**

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

Based on 12 gallons per hour (crusher generator and loader), the potential emissions are calculated by:

12 gallons per hour x 5,824 hours/year x 604 lb/1,000gal + 2,000 lbs/ton = 21.1 tons/year

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

Allowable Emissions Allowable Emissions _____ of _____ **N/A**

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 1 of 1

Pollutant Detail Information Page 5 of 7

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **SOX**		2. Pollutant Regulatory Code: **EL**
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **Crusher's Generator and Loader** lb/hour **1.4**tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **39.7 lb. / 1,000 gallons diesel** Reference: **FIRE 6.22 / SCC 20400402**		9. Emissions Method Code: **3**

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

Based on 12 gallons per hour (crusher generator and loader), the potential emissions are calculated by:

12 gallons per hour x 5,824 hours/year x 39.7 lb/1,000gal ÷ 2,000 lbs/ton = 1.4 tons/year

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

Allowable Emissions Allowable Emissions _____ of _____ **N/A**

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

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

Emissions Unit Information Section 1 of 1

Pollutant Detail Information Page 6 of 7

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **VOC**		2. Pollutant Regulatory Code: **EL**
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **Crusher's Generator and Loader** lb/hour **1.72**tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **49.3 lb. / 1,000 gallons diesel** Reference: **FIRE 6.22 / SCC 20400402**		**9.** Emissions Method Code:

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

Based on 12 gallons per hour (crusher generator and loader), the potential emissions are calculated by:

12 gallons per hour x 5,824 hours/year x 49.3 lb/1,000gal + 2,000 lbs/ton = 1.72 tons/year

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

Allowable Emissions Allowable Emissions _____ of _____ **N/A**

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

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

Emissions Unit Information Section 1 of 1

Pollutant Detail Information Page 7 of 7

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **Loader and Crusher's Generator** lb/hour **1.48** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **42.5 lb. / 1,000 gallons diesel** Reference: **FIRE 6.22 / SCC 20400402**		9. Emissions Method Code: **3**

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

Based on 12 gallons per hour (crusher generator and loader), the potential emissions are calculated by:

12 gallons per hour x 5,824 hours/year x 42.5 lb/1,000gal + 2,000 lbs/ton = 1.48tons/year

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

Allowable Emissions Allowable Emissions _____ of _____ **N/A**

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

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

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

Visible Emissions Limitation: Visible Emissions Limitation __1____ of __1____

1. Visible Emissions Subtype: **RULE**	2. Basis for Allowable Opacity: [X] Rule **62.296.711** [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **5** % Exceptional Conditions: **None** % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **EPA METHOD 9**	
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 _____ **N/A**

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):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report **To be submitted after construction permit is received and crusher can operate.** [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment:

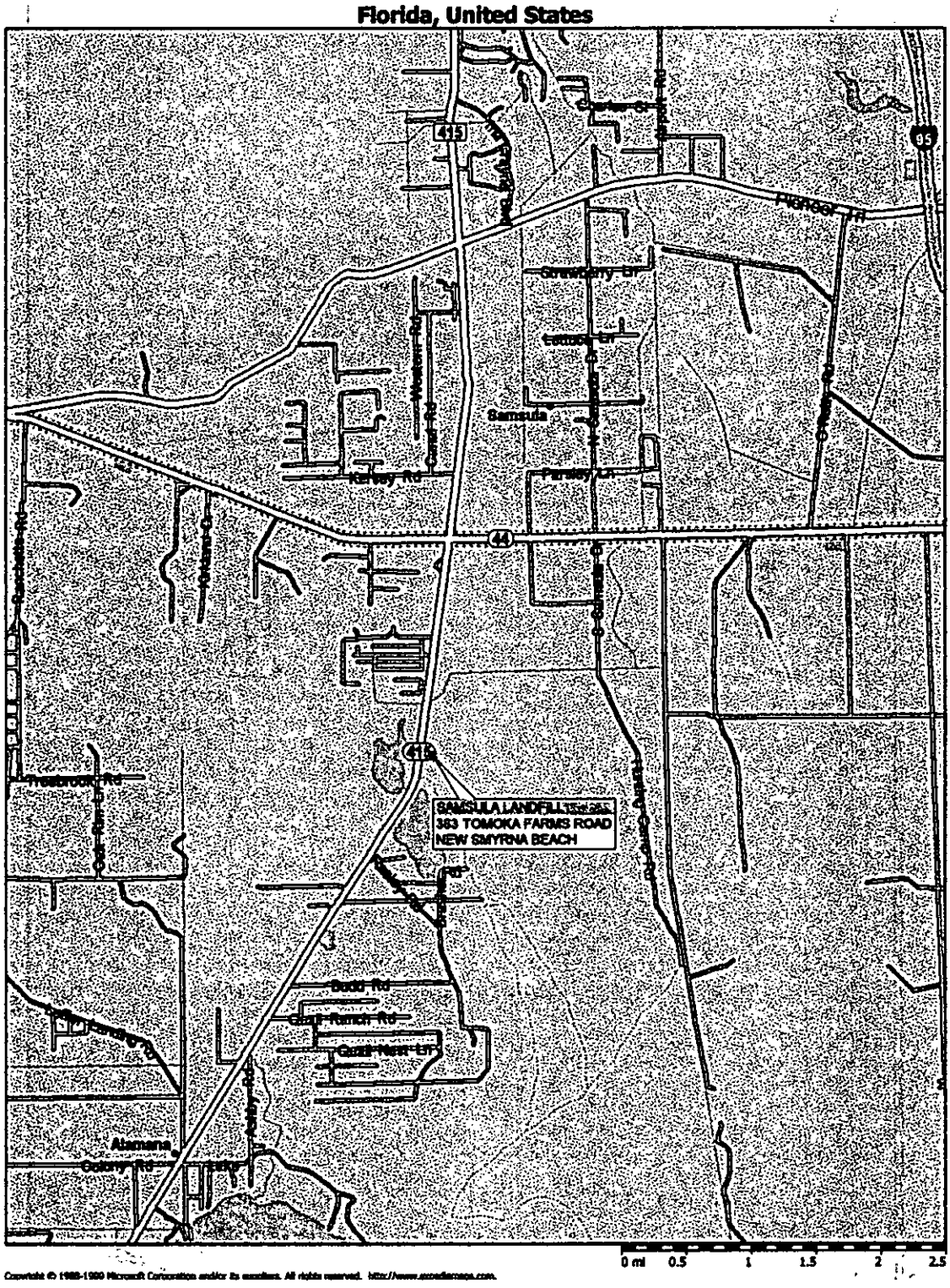
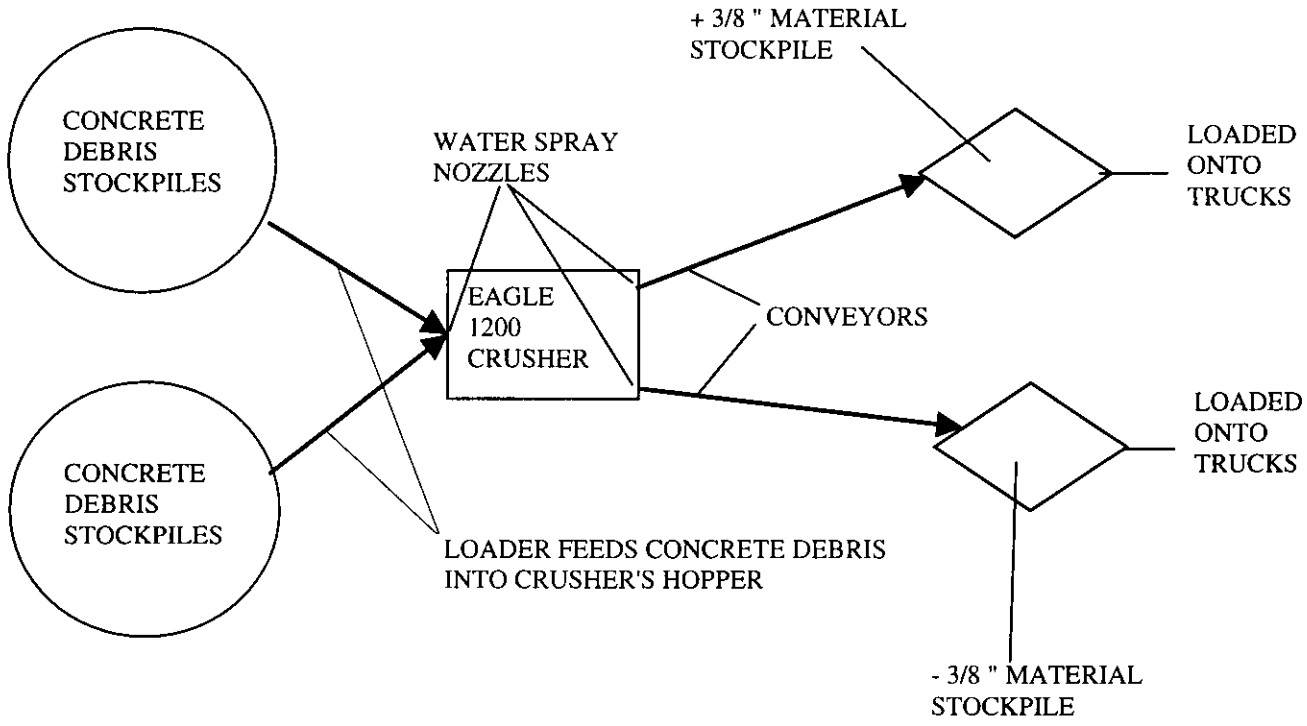


FIGURE 1

SITE LOCATION MAP

SAMSULA RECYCLYING PRIMARY LOCATION
SAMSULA LANDFILL
363 STATE ROAD 415
NEW SMYRNA BEACH, FLRORIDA

COLELLA & ASSOCIATES, INC.



NOTE: STOCKPILES AND WORKING AREA WILL BE WATERED AS IS NECESSARY TO MINIMIZE THE GENERATION OF PARTICULATE EMISSIONS AS DUST.

FIGURE 2

PROCESS FLOW DIAGRAM

CONCRETE DEBRIS CRUSHING OPERATION
SAMSULA RECYCLING, INC.

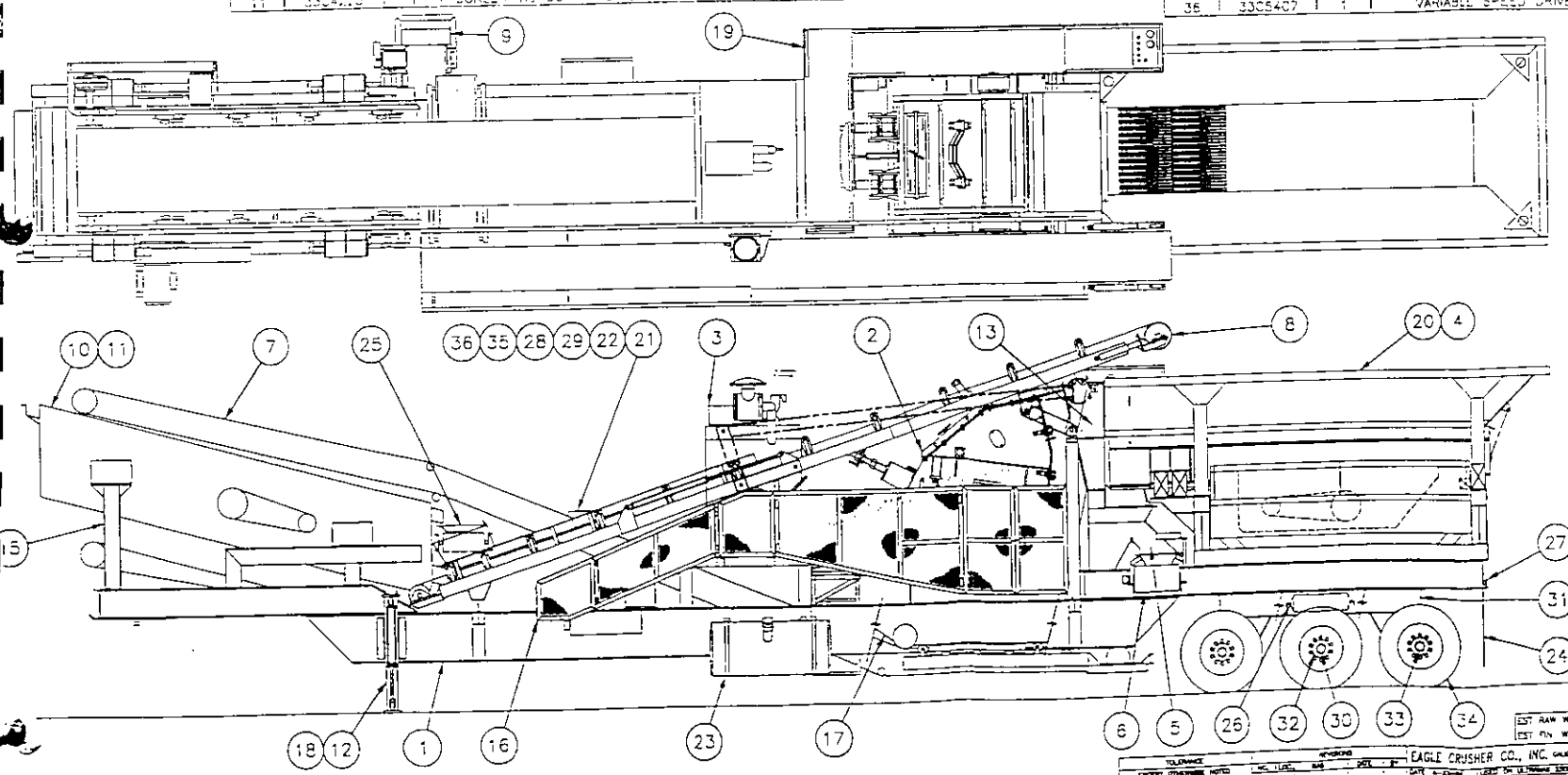
COLELLA & ASSOCIATES, INC.

PROJECT NO. 00-110

APPENDIX A

EAGLE 1200 CRUSHER DETAILS AND PHOTOGRAPHS

ITEM	PART NO.	QTY	PART NAME
1	33D4766	1	MAIN FRAME WELDMENT
2	62D290	1	ULTRA-MAX 25 IMPACTOR
3	33D4510	1	CRUSHER DRIVE ASSEMBLY
4	33D4761	1	HOPPER/FEEDER ASSEMBLY
5	33D4887	1	GRIZZLY BY-PASS CHUTE ASS'Y.
6	36D2167	1	GRIZZLY BY-PASS CONV. ASS'Y.
7	36D1598	1	PLANT FEED CONVEYOR ASSEMBLY
8	36D2057	1	RETURN CONVEYOR INSTALLATION
9	36C2062	1	LOWER SCREEN CROSS CONVEYOR
10	50D1432	1	SIMPLICITY SCREEN
11	33D4005	1	SCREEN TIE DOWN INSTALLATION
12	33D4430	1	CYLINDER MOUNT INSTALLATION
13	33D4775	1	CRUSHER FEED BOX ASSEMBLY
14			
15	33D2478	1	SCREEN MOUNT ASSEMBLY
16	33D4506	1	CRUSHER DRIVE GUARD ASSEMBLY
17	33D4505	1	DISCHARGE BOX ASSEMBLY
18	43D205	1	HYDRAULIC ASSEMBLY
19	33D4504	1	OPERATOR'S PLATFORMS
20	35D324	1	FEED HOPPER WELD REWORK
21	33D4764	1	ELECTRIC PANEL INSTALLATION
22	50D2058	1	CONTROL PANEL
23	45D952	1	DIESEL FUEL ASSEMBLY
24	33C1963	1	MUDFLAP INSTALLATION
25	36D1708	1	SCREEN CROSS CONVEYOR
26	38C077	1	AIR BRAKE ASSEMBLY
27	33D3771	1	TAIL LIGHT INSTALLATION
28	50A1801	1	APR CONNECTOR
29	50A1802	1	APJ CONNECTOR
30	50C1088-2	1	TRI-AXLE SUSPENSION
31	33C953	1	AXLE RISER WELDMENT
32	50D1446	3	AXLE
33	50A1660	12	RIM
34	50B1659	12	TIRE
35	39D153	REF.	ELECTRIC SCHEMATIC
36	33C5407	1	VARIABLE SPEED DRIVE



EST RAW WT-
EST FIN WT- 118,000#

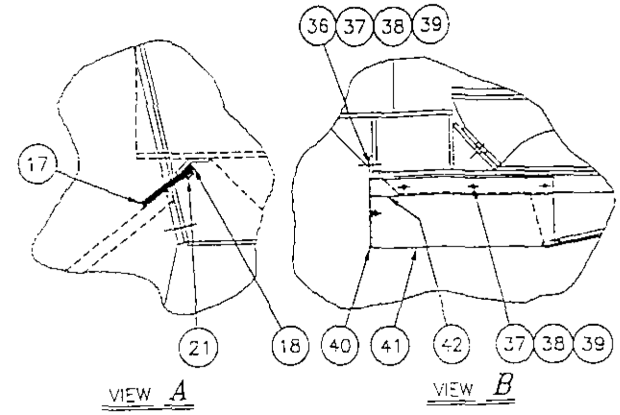
EAGLE CRUSHER CO., INC. GALION, OHIO, USA

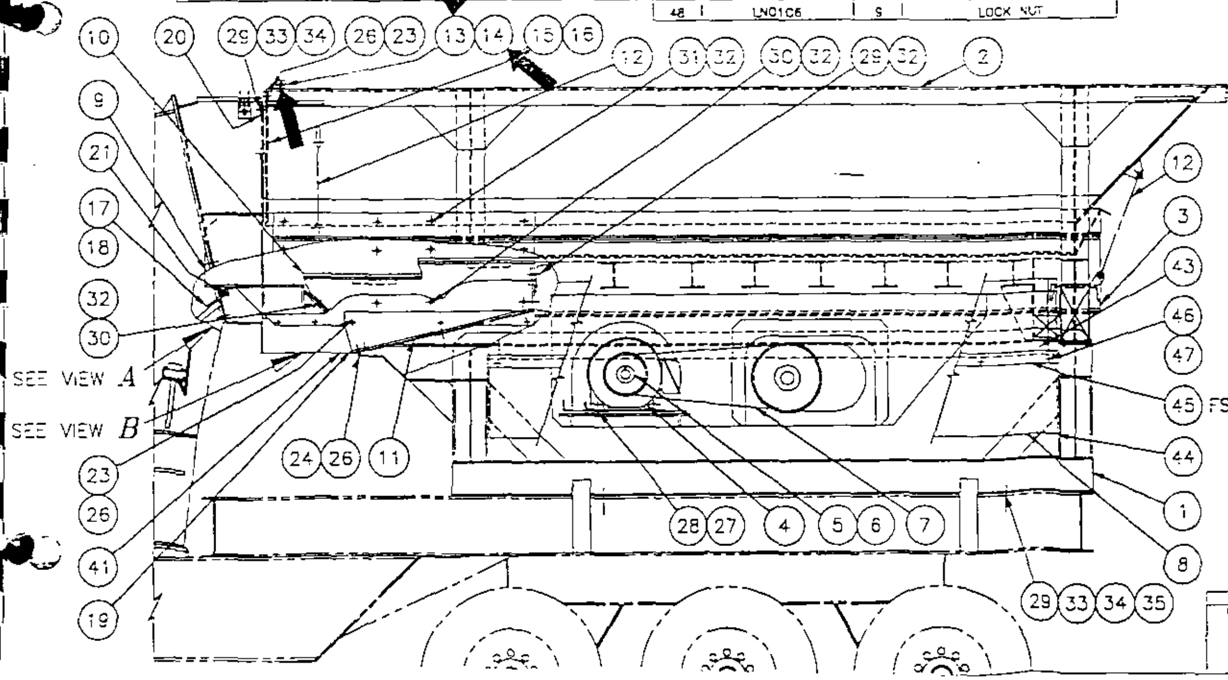
ULTRAMAX 2500 PORTABLE ASSY

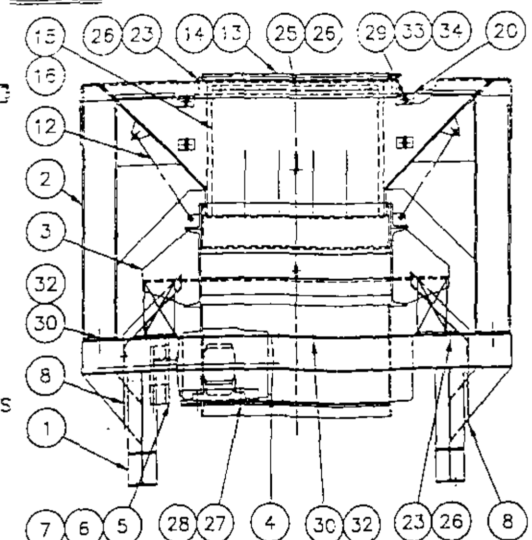
P33477900

ITEM	PART NO.	QTY	PART NAME
1	3304782	1	FEEDER/HOPPER BASE WELD
2	350324	1	FEED HOPPER
3	5001909	1	VIBRATING FEEDER
4	50A933-8	0	ELECTRIC MOTOR
5	50A847-9-3	0	SHEAVE
6	50A825-96	0	Q.D. HUB
7	50A1200-3-109	0	V-BELT
8	33C4363	2	SIDE GUARD ASSEMBLY
9	3304364	1	GRIZZLY FRAME WELDMENT
10			SEE OPTION LIST
11	33C4366	1	GRIZZLY CHUTE WELDMENT
12	50A1333	3	RATCHET JACK
13	33C4367	1	SPRAY BAR WELDMENT
14	50A1361	3	SPRAY NOZZLE
15	33A4368	1	CURTAIN RUBBER
16	33A4369	1	CURTAIN BACK PLATE
17	33A4370	1	FLASHING RUBBER
18	33A4371	1	FLASHING BACK PLATE
19	33A4372	1	CHUTE LINER
20	33A4783	8	WASHER
21	BF1706016	3	HEX HEAD CAPSCREW
22			
23	BF1708024	16	HEX. HEAD CAPSCREW
24	BF0908020	9	FLAT SOCKET HEAD CAPSCREW
25	BF0308016	3	SQUARE NECK CARRIAGE BOLT
26	LNC108	28	LOCK NUT
27	BF1710036	4	HEX. HEAD CAPSCREW
28	LN0110	4	LOCK NUT
29	BF1712040	11	HEX. HEAD CAP SCREW
30	BF1712028	36	HEX. HEAD CAP SCREW
31	BF0912024	16	FLAT SOCKET HEAD CAPSCREW
32	LN0112	55	LOCK NUT
33	HNC112	6	HEX. NUT
34	LWC112	6	LOCK WASHER
35	BWC112	8	BEVEL WASHER
36	FWC108	4	FLAT WASHER
37	FWC106	8	FLAT WASHER
38	LNC106	8	LOCK NUT
39	WS0106016	8	WELD STUD
40	33A4849	1	FRONT RUBBER SEAL
41	33A4850	2	SIDE RUBBER SEAL
42	33A4851	2	SIDE CLAMP PLATE
43	33C4385	1	SIDE GUARD WELDMENT
44	33B4386	1	GUARD COVER
45	33B4387	1	BACK PLATE
46	BFC306016	9	CARRIAGE BOLT
48	LN01C6	9	LOCK NUT

OPTIONS LIST- ONE OF THESE MUST BE USED			
ITEM	PART NO.	QTY	PART NAME
1	33D4365	1	GRIZZLY DECK WELD- 2 1/4 NOM.
2	33D4401	1	GRIZZLY DECK WELD- 1 1/2 NOM.





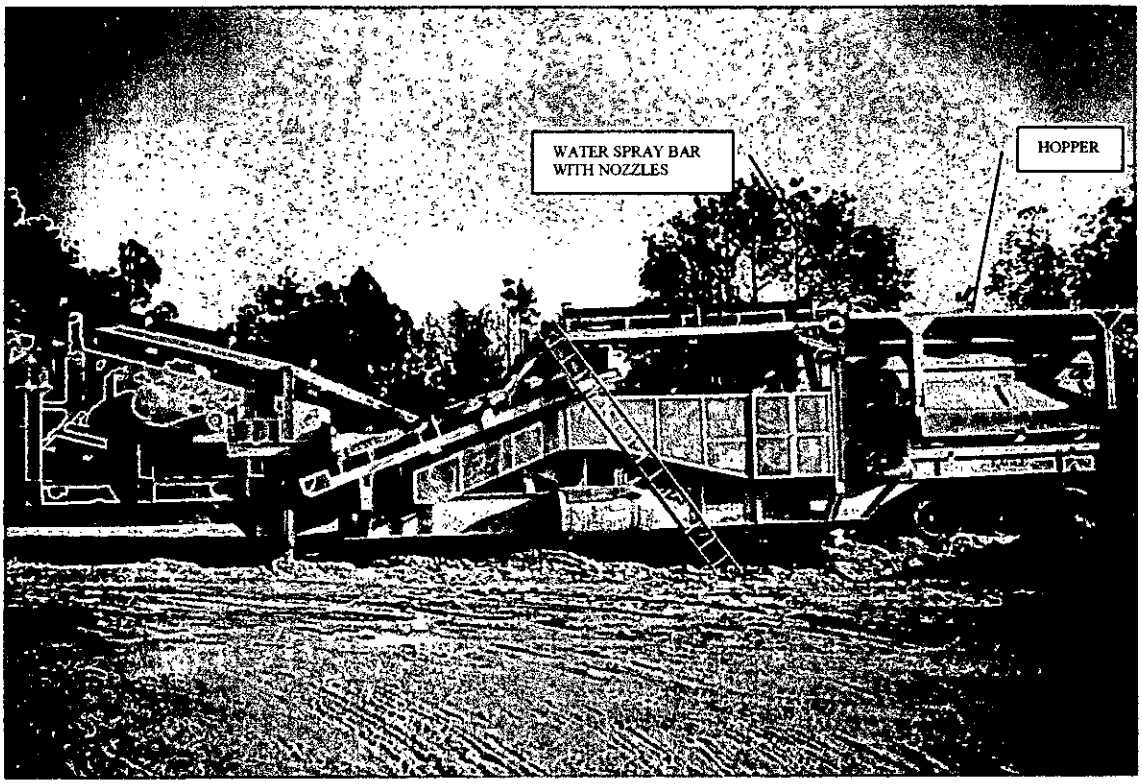


EST RAW WT-
EST FIN WT- 21,148.2#

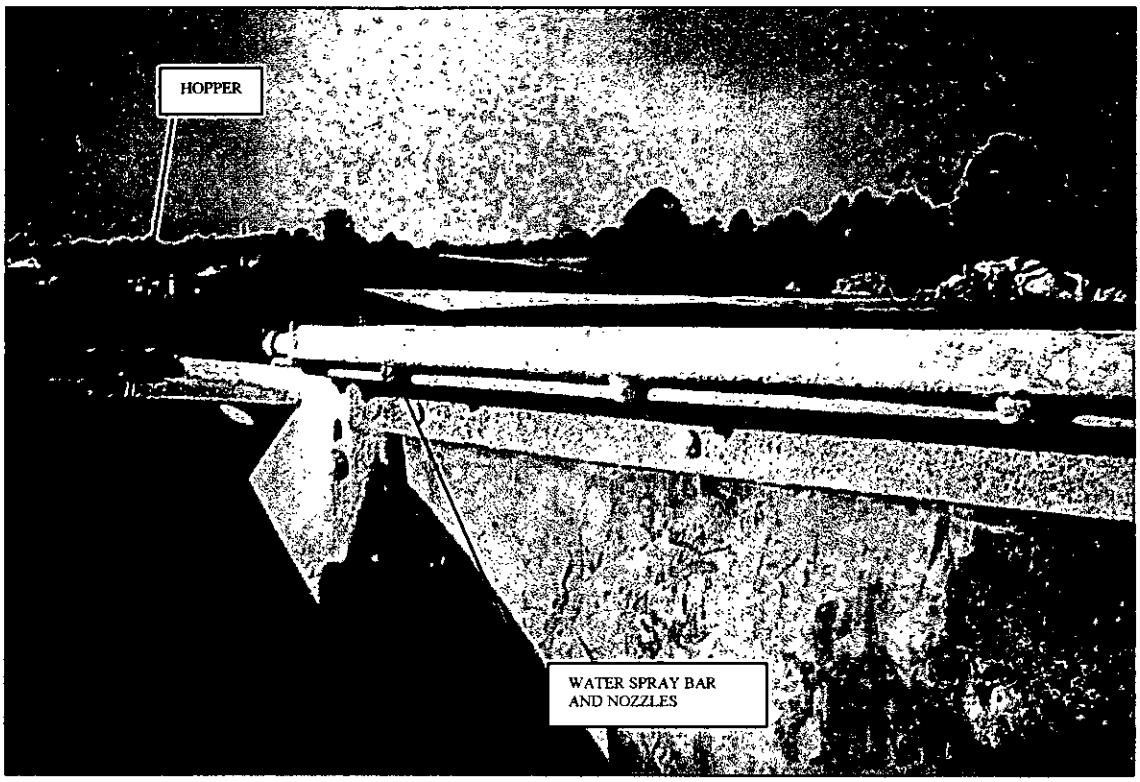
EAGLE CRUSHER CO., INC. GALION, OHIO, USA

FEED HOPPER ASSEMBLY

PART NUMBER: P3304781



EAGLE 1200 CRUSHER.



CLOSE-UP VIEW OF WATER SPRAY BAR IN THE CRUSHER'S HOPPER.

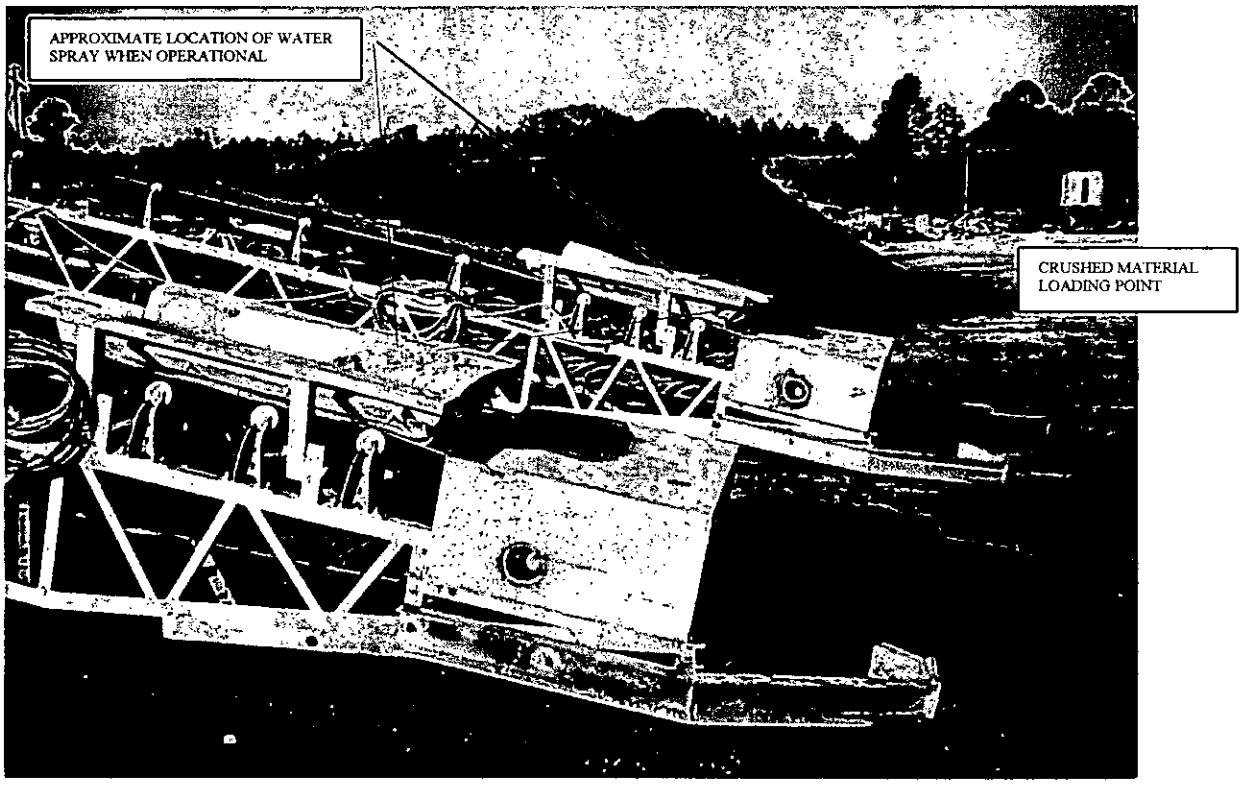
APPENDIX A-1

CRUSHER AND SPRAY BAR

EAGLE 1200 CRUSHER
SAMSULA RECYCLYING, INC.
NEW SMYRNA BEACH, FLORIDA

COLELLA & ASSOCIATES, INC.

CONVEYORS USED TO DISCHARGE PROCESSED CONCRETE DEBRIS.



CLOSE-UP VIEW OF LOADING POINT AND WATER SPRAY AREAS ON CONVEYORS.

APPENDIX A-2
PROCESSED MATERIALS' CONVEYORS

EAGLE 1200 CRUSHER
SAMSULA RECYCLYING, INC.
NEW SMYRNA BEACH, FLORIDA

COLELLA & ASSOCIATES, INC.

PROJECT NO. 00-110

APPENDIX B

EAGLE 1200 CRUSHER OPERATING RANGE

EAGLE
CRUSHER COMPANY, INC.

P.O. Box 537 • Galion, Ohio 44833 • 800-25-EAGLE • 419-468-2288 • FAX: 419-468-4840 • www.eaglecrusher.com

March 16, 2000

Sansula Landfill, Inc.
Yancey McDonald
363 State Road 415
New Smyrna Beach, FL 32168

Ref: UltraMax 1200-25

In your particular application the Eagle UltraMax 1200-25 Portable Plant with 1 ½" top deck, and 3/8" bottom deck screen has a rated capacity of 120 tons per hour.

Eagle Crusher Company, Inc.

Jay Giltz
Applications Manager
Team Eagle Sales

cc: Magness Machinery

APPENDIX C

SAMSULA RECYCLING WATERING PLAN

APPENDIX C - DUST SUPPRESSION PLAN
SAMSULA RECYCLING, INC.

1. **Crusher**
   - Crusher's spray bar and associated nozzles in the hopper will be maintained operational.
   - Water supply to be provided by tanker or hard piping to water supply prior to operating crusher.
   - Crusher will not operate if the spray bar/nozzles or other devices to apply water in the hopper are not functioning.
   - Water pressure to be maintained at least 135 psi to develop adequate misting and coverage.
   - Crusher operator will operate the crusher in a manner to minimize dust generation during crushing by controlling the flow of water to the spray bar/nozzles.

2. **Work Area**
   - A water truck or other water application system will apply water to the ground surface to minimize dust being generated from the delivery of concrete debris, from the loading of the crusher's hopper, from the conveying of processed materials, from stockpiling the processed materials, from loading the processed materials into trucks, and from the truck traffic hauling the processed materials.
   - Crusher operator will control the water application rate onto the ground surface to minimize dust generation from wind erosion and/or equipment traffic.
   - The crusher will not operate if dust suppression in the work area is not controlled.

3. **Processed Materials Conveyors**
   - Maintain the water spray equipment operational at the loading point of the processed material from the crusher onto the discharge conveyors (2).
   - Water supply to be provided by tanker or hard piping to water supply prior to operating crusher and conveyors.
   - Crusher will not operate if the spray bar/nozzles or other devices to apply water at the loading points of the discharge conveyors are not functioning.
   - Water pressure to be maintained at least 135 psi to develop adequate misting and coverage.
   - Crusher operator will control the flow of water to the spray bar/nozzles to maintain a relatively dust free working environment.

4. **Stockpiled Materials**
   - All stockpiles will be sprayed with water to minimize dust generation by wind erosion and/or the handling of the materials during loading operations.
   - Water supply to be provided by tanker or hard piping to water supply prior to operating crusher and conveyors.
   - Adequate spray heads will be provided for each stockpile and the water pressure will be maintained at least 135 psi to develop adequate misting and coverage.
   - Crusher operator will control the water application rate onto the stockpiles to minimize dust generation from wind erosion and/or loading operations.

5. **Exception**
   - Stockpiles and the work area watering can be suspended during rain events and subsequent to a rain event if dust is not being generated. Upon first notice of dust generation by wind erosion and/or equipment movement, water application will begin.