

Permit No.	Scan Date	DIN
P1239	February 26, 2013	18578

From the Desk of:

Mark B. Pace

416 Sabine Dr.

Hendersonville, NC 28739

RECEIVED

FEB 26 2013

SOLID WASTE SECTION
ASHEVILLE REGIONAL OFFICE

Feb. 20, 2013

To: Larry Frost
Re: Crest Rd. C&D Material Recovery
Facility Operations Plan

Mr. Frost:

Included in the following packet are the revisions of our previously submitted Operations Plan, an organizational chart for Mark Pace, and a revised set of numbers for our closure cost analysis. Please feel free to call if you have any questions, or need anything else from us. My mobile number is 828-808-4405. Thank you for your time.

Sincerely,



Barry Bonnett

Enclosures:

- Crest Rd. C&D MRF Operations Plan
- Revisions from second submittal
- Henderson County E&S permit
- Henderson County TRC letter of approval
- Organizational chart
- Crest Rd. C&D MRF closure cost analysis
- Letter of credit for financial assurance

PREPARED FOR:

RECEIVED

FEB 26 2013

Mark Pace

SOLID WASTE SECTION
ASHEVILLE REGIONAL OFFICE

416 Sabine Dr.

Hendersonville, NC 28739

**CREST ROAD C&D MATERIAL RECOVERY FACILITY
420 CREST ROAD
HENDERSON COUNTY, NC**

OPERATIONS PLAN

**NOVEMBER 2011
REVISED FEBRUARY 2012**

PREPARED BY:

JOYCE
ENGINEERING

2211 WEST MEADOWVIEW ROAD, SUITE 101
GREENSBORO, NORTH CAROLINA 27407
NC LICENSE NUMBER C-0782
PHONE: (336) 323-0092
FAX: (336) 323-0093
JEI PROJECT NO. 00854.1101.11.01

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INTRODUCTION:

This permit application is for the operation of Crest Road Construction and Demolition(C&D) Material Recovery Facility(MRF). This facility proposes to accept non-hazardous construction and demolition debris for the purpose of screening, separating and redistributing certain components of the waste stream. Asbestos will not be accepted or handled at this facility. The site is located at 420 Crest Road in East Flat Rock, North Carolina. A site location map is provided in Appendix (I). It is anticipated that this facility will service areas within a 100 mile radius from the site. The facility will be opened Monday through Friday from 7 a.m. to 5 p.m. and on Saturday from 8 a.m. to noon. The facility will be closed on Sunday.

SITE FEATURES:

This facility will include a scale, prefabricated scalehouse and parking lot at the entrance of the site. Access to this site will be controlled by an 8' perimeter fence and a security gate at the driveway entrance that will be locked at the end of each operating day. The fence will also prevent any litter from leaving the onsite management areas. The site has been graded to prevent run-on and graded to sheet flow the run-off into a detention pond that is equipped with a flashboard riser. The site will have A 11,580 sf concrete area for tipping and sorting material. All of this area will be covered. A grated sump will be located such that any liquid waste or water used for cleaning will flow into this sump and drain to a leachate holding tank. A roll off containers for recyclable/reclaimable material storage and stock pile areas will be located adjacent to the tipping and sorting area (See section A) 6) for more detail).

Some green waste may be accepted and ground into mulch.(No painted or treated wood to be ground)

A. General Operations:

1) Conditions of Acceptance:

The waste accepted at the proposed site will be debris from construction, remodeling and repair, and demolished structures. A trained employee will be onsite at all times when the site is in operation to oversee the loading and unloading of waste. Prior to separation, the debris from each load will be screened visually by a trained foreman for potentially hazardous material. If hazardous materials are identified up front then the load will be rejected. All haulers will be notified of acceptable/unacceptable material prior to dumping of materials.

Acceptable material includes wood, roofing, plastic, ferrous & nonferrous metals, drywall, concrete, cardboard, brick, asphalt, carpet, dirt and other miscellaneous construction and demolition materials. Unacceptable wastes include any regulated quantity of hazardous waste, any liquid waste, or other material banned from landfill disposal by North Carolina rule or statute. By-pass materials are materials that the facility will accept, but cannot resell on the market. Examples include treated wood, asphalt, roofing material, visqueen and carpet. The by-pass material will be disposed of in a state approved C&D landfill.

In order to comply with North Carolina's guidelines for treatment and processing facilities, each load entering and exiting the site will be weighed at the scalehouse. This will be done in order to help document the facility's capability to process and remove recyclable material from the waste

stream. Records of weight, material, and use will be made by the scalehouse attendant. The operator of the facility will review these records monthly and submit them to the North Carolina Solid Waste Section for review on a yearly basis.

Regulatory signs will be installed and remain in place for the operational life of the facility. They will be updated to remain in compliance with DENR regulations. An entrance sign will state that C&D type debris are accepted and will also display: No Hazardous Waste, No Asbestos Material, and No MSW. Operating hours, permit number and emergency contact information will also be included on this sign. A detailed material accepted sign will be posted on the scalehouse along with fee amounts.

The site is zoned light industrial. Therefore, noise from daily operations is allowed during normal business hours. Any C&D waste that produces an odor will be hauled off-site. However, other than drywall, most C&D material is odorless. Windblown materials will be contained on-site by the perimeter fence and will be collected by the end of each work day.

2) Waste Disposal Sites:

Crest Road C&D Material Recovery Facility will utilize near-by permitted facilities as their primary and secondary disposal sites. The Shiloh Landfill (Permit #232644-1201) will most likely be utilized for final disposal. However, if a more opportunistic situation arises with another permitted facility, the final waste disposal arrangement may be revised.

3) Facility Operators:

Crest Road C&D Material Recovery Facility will be operated by Mark Pace. Operators will be trained employees and site management will have hazardous awareness and asbestos training.

4) Air Quality:

In order to control dust during dry periods, installed water lines and sprinkler system will be used. A water truck and street sweeper will be used on an as-need basis. This equipment will not be on site full time.

5) Storage of Materials:

The following is a list of materials and the estimated times of storage prior to removal:

<u>Material</u>	<u>Estimated Shipment/Removal Time</u>
Hazardous Material	As need basis
C&D Residual / By-pass Material	5 Days (shipped daily)
C&D Material (Unprocessed)	5 Days (processed daily)

Clean Wood	
- Unprocessed (Stockpiled)	5 Days
- Processed (shredded chips)	Shipped Daily/ Weekly
Plastics	
- HDPE (rigid)	1 Month – when market exists
- PVC (rigid)	1 Month – when market exists
- LDPE (rigid)	1 Month – when market exists
Non-Ferrous Metals	
- Insulated wire	1 Month
- UBC (aluminum cans)	1 Month
- Misc. Aluminum	1 Month
- Copper	1 Month
Ferrous Metals	1 Month (shipped weekly)
Drywall	1 Month – when market exists
Concrete, Asphalt, and Brick	As need basis
OCC (cardboard)	1 Month
Fines (RSM – Recovered Screened Material)	1 Month (shipped daily)

- Commodities should be stored in designated areas only.
- Commodities have a positive value, therefore should not be considered a waste product.
- Commodities are shipped according to market demands, therefore it should be understood that sometimes certain commodities would remain stockpiled for longer than others.

6) Separation and Processing of Material:

Material will enter the site by first passing over the scales, where total weight, source of the load, and material type will be noted. A prefabricated scalehouse will be located adjacent to the scales to handle payments and pre-screenings. Material will be tipped and sorted on the covered concrete area. A wheel loader will then be used to move the material to the sorting area. The tipping floor will be clear of waste at the end of each operating day. Enough material will be staged in the sorting area to begin the following days sorting process. The concrete will be swept or blown clean as needed. A hose bib will be located at the scalehouse to control dust and/or wash the tipping floor as needed. Any water that comes in contact with mixed waste will be divert to the leachate trench drain and conveyed into the concrete holding tank. Incoming trucks will be held until their loads can be screened, unless there is high traffic volume. The material recovery facility will be responsible for unacceptable waste on-site. Materials placed on the processing pad will be processed every two days under normal operating conditions.

Large quantities of by-pass material may be taken directly from the concrete pad to the by-pass bins and not subjected to the fingerscreener and picking process. This material will be dampened as necessary prior to removal to the by-pass or processing storage bins, and will be dampened again as necessary during processing (shredding or grinding or crushing).

Hand separation of recyclable materials and additional by-pass material will then be conducted. Materials will be transferred into the roll off storage bins by an excavator or loader. The bins will be designated as follows: clean wood, plastics, nonferrous metals, ferrous metal, drywall, cardboard, concrete, asphalt and brick. Materials such as treated wood (i.e. wood that has stains, varnishes, creosote, etc.), roofing, dirt, carpet, and other miscellaneous materials that are not hand sorted will be deposited separately and subsequently shipped to the appropriate disposal facility. Dirt may be further screened for resale.

During high winds, snowfall events, or other unusual circumstances that endanger the safety of personnel and/or clients, the clients will be notified that operations will be discontinued. When dust emissions are high due to dry weather, steps will be taken to reduce the amount of emissions by wetting access and ancillary roads. During wet conditions, waste will not be tipped into accumulated precipitation.

7) Leachate Management:

The concrete area used for tipping, sorting and temporary material storage will be covered and graded to drain towards a grated sump. The concrete area will be slightly elevated to prevent stormwater run-on from entering the sump. An outlet pipe will convey any liquid waste from the sump to a 1,000 gallon leachate holding tank. This tank will be inspected weekly and leachate will be pumped and hauled by a permitted contractor as necessary. In the event that sanitary sewer service is extended in Crest Rd R.O.W., direct discharge into the sewer main may be investigated.

8) Final Disposition of Unacceptable Material:

The hazardous material that could be received at the site will be less than 100 kilograms per month. If hazardous materials are identified up front then the load will be rejected. However, if a hazardous waste is introduced on the facility grounds, a roll-off for loading this material will be on-site and a third party will be contracted to handle this waste. Therefore, this site is not considered a small quantity generator, as defined by the United States Environmental Protection Agency (EPA).

9) Final Disposition of By-pass Material:

By-pass material will be shipped daily or when 100 cubic yards is accumulated, to a state approved construction and demolition debris landfill.

10) Final Disposition of Recyclables:

This material will be sold and hauled to various parties depending on economic considerations

and market fluctuations. All parties will be permitted to receive recyclable materials.

B) Material Screening Plan:

1) Purpose:

The purpose of this plan is to comply with NCAC T15A.13B.0302(2). The key elements of the plan include:

1. Visual inspection of each load that enters the facility,
2. Records of all inspections,
3. Training of facility personnel to recognize regulated hazardous and unacceptable waste, including asbestos containing materials; and,
4. A contingency plan to properly manage any unacceptable wastes.

2) Procedure for Visual Inspections:

1. Initial visual inspections will begin with each truck unloading their shipment onto a concrete pad, and prior to being loaded onto the processing equipment. The truck and driver will be detained if unacceptable material is discovered during unloading.
2. The shipment will be spread with a Bobcat and/or hand tools as appropriate. Loads that include items such as large closed containers will be hand-raked to avoid possible rupturing of the containers. Minimum safety equipment will include:
 - Leather or rubber boots
 - Safety boots
 - Safety glasses
 - Long handled hoe
 - Hard hats
 - Fire extinguishers
3. The shipment will be examined for unacceptable and/or hazardous waste and safety hazards:
 - Containers with hazardous placarding or markings,
 - Any material containing asbestos,
 - Household garbage,
 - Any containers with liquids, oils, varnishes, stains, or paints,
 - Sludges,
 - Regulated biomedical (red bag) waste,
 - Any material with "chemical odors," powders, smoke, dusts, or vapors
 - Any drums or commercial sized containers,
 - Materials with bright or unusual colors,
 - Household hazardous wastes and,
 - Any waste banned from landfill disposal by North Carolina statute or rule.

4. In the event that unacceptable wastes are found in a shipment, the appropriate actions are as follows:

- Hold suspect waste for identification by on-site personnel and, if necessary, confirmation by others such as a contract laboratory, hazardous waste management firm, or state and/or federal regulator,
- Interview driver and hauler to identify the source of suspect waste in the load,
- Hold rejected shipment for generator,
- Arrange for a hazardous or liquid waste collection by a licensed collector
- Properly clean the screening area to prevent contamination.

5. Document Actions:

- Record inspection,
- Retain reports and,
- Report hazardous or unacceptable shipments to the Solid Waste Section-DENR.

3) **Record Keeping:**

Report forms for record-keeping purposes are included in Appendix (II). These forms will be completed when unacceptable materials are observed. All reports and resulting correspondence will be maintained by Mark Pace

C) **Management Plan for Unacceptable Materials:**

In the event that unacceptable material is unloaded on the processing pad, the entire shipment will immediately be isolated. The waste will be held until it can be shipped to a hazardous waste disposal unit. During the interim, the waste will be properly secured against unauthorized removal, segregated from all other operations and protected against inclement weather conditions. In addition, proper storage will be dictated by RCRA 40 CFR 264 (Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities) and other applicable regulations. It will be the hauler's responsibility to pay for the disposal of unacceptable materials. It will be the responsibility of the facility owner to contract the proper transport and disposal of the unacceptable material by qualified personnel.

D) **Management Plan for By-pass Material:**

By-pass material includes treated wood, roofing materials, dirt, carpet, wet drywall and other miscellaneous material. The by-pass material will be stored in bins located in a designated area on-site. The material will not be sorted by material type. By-pass material will be stored on-site for a maximum of two days. In addition, by-pass material will be shipped to a state approved construction and demolition landfill on a daily basis, or when 100 cubic yards is accumulated. Trucks carrying the by-pass material will have their loads dampened if needed, and covered before going off-site.

E) Management Plan for Recyclable/Reclaimable Material:

Reclaimable material will include clean wood, plastic, nonferrous metals, ferrous metals, drywall, cardboard, concrete, brick and asphalt. Clean wood products that have been deemed recyclable will be ground for shipment and then shipped as boiler fuel, furniture pressboard, or mulch. Concrete and asphalt will be stored on-site and when quantities reach an appropriate level, a mobile crushing unit will be brought to the site for further processing. The crushed material will be stockpiled on site and sold as road base material. Other reclaimable material will be shipped off-site as the quantities reach an appropriate level. If shingle recycling is determined to be beneficial, operator can further investigate this service and apply for a permit modification. When appropriate levels of green waste have been reached, a mobile grinder will be brought to the site for processing. Mulch will then be stockpiled for sale.

F) Equipment Information:

1) Loading Equipment:

1. Caterpillar 322 Hydraulic Excavator or equal: The primary function of this equipment will be to load material from the tipping pad to the storage bins.

Pertinent specifications of this equipment include:

- Maximum operating weight: 35,900 lbs.
- Gross diesel engine power: 102 HP
- Minimum bucket size: 0.48 cy
- Shipping length: 27'-9 1/2"
- Shipping height: 9'-1 25/64"
- Maximum loading height is approximately 28'
- Track-based undercarriage

2. Caterpillar Wheel Loader 938 & 950 or equal: The primary function of this piece of equipment will be to push material on the tipping pad towards the excavator and presorted material away from the excavator. In addition, it will be used to load recycled and by-pass material on to receiving trucks to be shipped from the site.

Pertinent specifications of this equipment include:

- Maximum operating weight: 27,510 lbs.
- Gross diesel engine power: 137 HP
- Maximum shipping length with bucket: 24'-5"
- Shipping height: 10'-8"
- Maximum loading height is 16'-8"
- Wheel-based undercarriage

2) Backhoe

Other equipment:

- 1) 330-gallon portable water tank: Provide water at various locations.

G) Fire Prevention:

If a hot load is received at this facility it will be segregated and smothered or soaked. If needed, the local fire department will be contacted. A fire hydrant will be installed of in the adjacent R.O.W. A letter from the Blue Ridge Fire and Rescue Dept. concerning the ability of the department to respond to an emergency at the facility is included in Appendix (III).

H) Asbestos Containing Materials Management:

The purpose of this section is to describe the asbestos awareness training, and handling of ACM's that potentially are in the C&D waste stream when processing construction and demolition materials.

1. Awareness Training

All employee's associated with C&D processing will undergo awareness training, as well, there will be an on site employee/representative who will have completed an approved Contractor/Supervisor training class.

1A: Components of Awareness Training – processing employees

- A. Types of Asbestos
- B. Health Affects of Asbestos
- C. Common Uses in Building Materials

2A: Asbestos Abatement Contractor/Supervisor Course to be North Carolina accredited – on site employee

2. Operations

- Upon receipt of waste, all trucks will be properly covered until such time that unloading is required.
- All incoming loads to the processing area will be examined.
- Initial visual inspection will occur when the vehicles dump their loads onto the waste receiving pad and pre-sort area.
- The pre-sort area employee will also serve as the asbestos inspector. Inspectors' duties include checking each load for possible asbestos containing materials.
- On site employee will take continuing education courses/annual refresher training course.
- Another visual inspection will occur prior to loading material into the storage bins. The equipment operator who is directly handling the material, will perform this check.
- Appropriate facilities will be in place to minimize dust.

- All screening employees will be provided protective breathing masks for use while processing/screening waste.
- Should materials be discovered that are suspected of containing asbestos, they will be immediately dampened until there is no visible dust and will then be covered or bagged and segregated from all activities.
- A licensed asbestos inspector will take a sample for analysis.
- Upon discovery of regulated asbestos, the reclamation facility will alter operations as necessary for the asbestos to be properly removed by a licensed company.
- The designated licensed company will be Ottinger Systems in Hendersonville, NC.

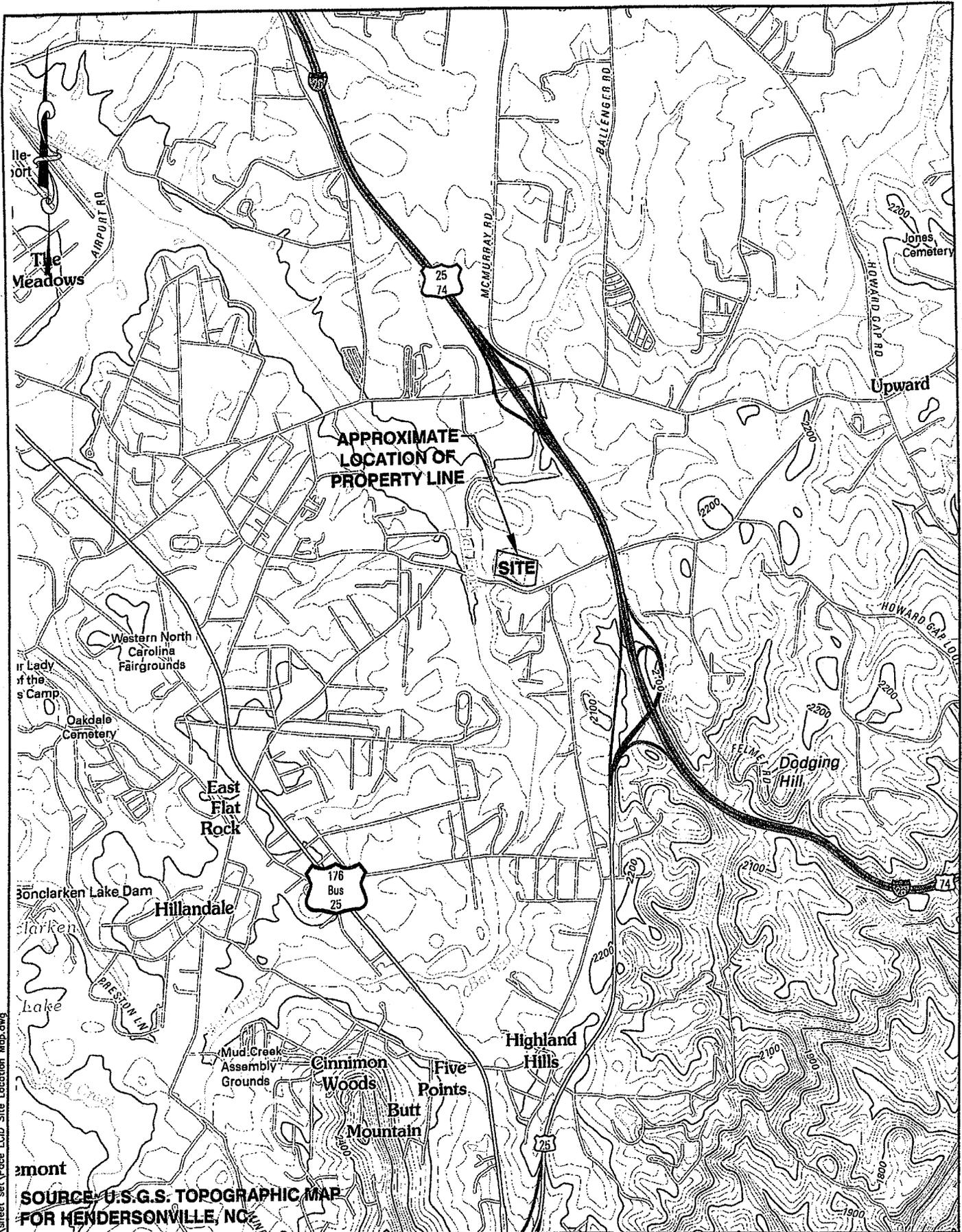
D) Financial Assurances:

The facility proposes to use a financial assurance bond with a company acceptable to the State. This bond will be issued with the Division of Waste Management – Solid Waste Section as the benefactor for the purpose of remedial clean up at the site. The bond will be based on the following information:

- Approximately 2,400 tons of material (including unacceptable, recyclable and by-pass material) will be the maximum amount of material at any given time. However, if it is determined that it is economical to install a second processing line, for which there is room on site, the facility operators will raise this amount based on the capacity of the site.
- **Mark Pace** will be willing to use whatever financial assurance mechanism that NCDENR deems appropriate.

[END]

Appendix I



SOURCE: U.S.G.S. TOPOGRAPHIC MAP FOR HENDERSONVILLE, NC

FIGURE NO. 1

JOYCE
ENGINEERING

2211 WEST MEADOWVIEW ROAD
GREENSBORO, N.C. 27407
PHONE: (336) 323-0682
© 2011 Joyce Engineering, Inc.
All rights reserved.

SCALE
1"=2000'

PROJECT NO.
854.1101.11

CREST ROAD C&D MRF
SITE LOCATION MAP

9/2011

L:\CREST ROAD\sheet set\Place LCD Site Location Map.dwg

Appendix II

RANDOM LOAD INSPECTION RECORD FORM
Crest Road C&D Material Recovery Facility

Date: _____ Hauler: _____
Inspector: _____ Load Source: _____
Waste Accepted [] Rejected [] Held []

INSPECTION CHECKLIST:

If "YES" explain in space provided below

	YES	NO
Asbestos containing material	_____	_____
Biomedical waste	_____	_____
Containers	_____	_____
Drums or commercial sized containers	_____	_____
Household garbage	_____	_____
Household hazardous waste	_____	_____
Material with:		
Bright or unusual colors	_____	_____
Chemical odors, powders, dust, or vapors	_____	_____
Hazardous placarding	_____	_____
Sludges	_____	_____
Unidentified wastes	_____	_____

Description of materials: _____

Driver's name and comments, if applicable: _____

Agencies Notified: _____

Persons Notified: _____

Appendix III

Blue Ridge Fire & Rescue

INCORPORATED

Mark Pace

416 Sabine Dr.

Hendersonville, NC 28739

June 28, 2011

To Whom It May Concern:

The purpose of this letter is to provide documentation that the proposed location of

Crest Road Material Recovery Facility located at 420 Crest Road, is located in the Blue Ridge Fire District

and is serviced by Blue Ridge Fire & Rescue, Inc.

Thank You,



Gary Brown
Chief

Appendix IV

County of Henderson

EROSION CONTROL DIVISION

Telephone: (828) 694-6523
Fax: (828) 697-4533
100 N. KING STREET
HENDERSONVILLE, NC 28792

LOCATION: Crest Road
RESPONSIBLE PERSON: Mark and Virginia L. Pace
Phone: Mark Pace 828-696-9118

WQ-2011-09-02

Erosion and Sedimentation Control Permit No.

Crest Road C&D MRF

PROJECT NAME

THIS CERTIFIES THAT A EROSION AND SEDIMENTATION CONTROL PERMIT HAS BEEN ISSUED FOR THE CONSTRUCTION WORK SET OUT ABOVE.



EROSION AND SEDIMENTATION CONTROL TECHNICIAN

THIS CERTIFICATE MUST BE POSTED AT THE CONSTRUCTION SITE IN A SECURE PLACE FROM THE TIME WORK IS COMMENCED UNTIL EROSION AND SEDIMENTATION CONTROL ADMINSTRATOR GIVES FINAL APPROVAL.

A COPY OF THE EROSION AND SEDIMENTATION CONTROL PLAN MUST BE AVAILABLE FOR THE INSPECTORS USE AT ALL TIMES.

October 28, 2011

**Henderson County
TECHNICAL REVIEW COMMITTEE**

100 North King Street • Hendersonville, North Carolina 28792
Phone (828) 697-4857 Fax (828) 697-4658

October 18, 2011 RECEIVED OCT 24 2011

Mark Pace
415 Sabine Drive
Hendersonville, NC 28739

Dear Mr. Pace:

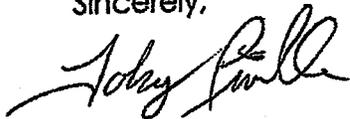
This letter confirms the approval from the Henderson County Technical Review Committee (TRC), on October 18, 2011 of the Major Site Plan for Crest Road C&D Recovery Facility. The plan was approved subject to compliance with the following Supplemental Requirements:

SR 10.9. Materials Recovery Facilities (Recycling)

- (1) Site Plan. Major Site Plan required in accordance with §200A-331 (Major Site Plan Review).
- (2) Lighting. Adequate lighting shall be placed in areas used for vehicular/pedestrian access including, but not limited to: stairs, sidewalks, crosswalks, intersections, or changes in grade. Lighting mitigation required.
- (3) Dust Reduction. Unpaved roads, travelways and/or parking areas shall be treated to prevent dust from adverse affects to adjacent properties.
- (4) Separation. A materials recovery facility shall not be constructed or newly located within one-half (1/2) mile of an existing school, library, day care facility, healthcare facility and/or religious institution.
- (5) Security. The operations of a materials recovery facility shall be totally enclosed by:
 - (1) a security fence at least eight (8) feet in height;
 - (2) a wall at least eight (8) feet in height; or
 - (3) a fireproof building. Entrances and exits should be secured and locked during non-operating hours.
- (6) Perimeter Setback. One hundred (100) feet.
- (7) Hours of Operation. 6:00 a.m. to 9:00 p.m.

Upon completion of these conditions, the applicant can apply for Property Address, Zoning Permit, Erosion Control Permit, Environmental Health Permit, Building Permit and any other local, state, or federal permits as required. Major Site Plan approval shall be valid for two years, however, for just cause, the Technical Review Committee may grant extensions of development plan approval for a maximum of one (1) additional year. No full Certificate of Occupancy will be granted until all conditions are met.

Sincerely,



Toby Linville, Director
Henderson County Code Enforcement
TL/kaw

Cc: Joyce Engineering



2211 W. Meadowview Rd
Suite 101
Geensboro, NC 27407
tel: 336/323-0092
fax: 336/323-0093

www.JoyceEngineering.com

RECEIVED

FEB 26 2013

SOLID WASTE SECTION
ASHEVILLE REGIONAL OFFICE

February 16, 2012

Mr. Larry Frost
Erosion and Sedimentation Control Technician

Re: Crest Road Recycling LLC-Transfer, Recycle Resource Recovery and Processing Facility Henderson County, DIN 15768

Dear: Mr. Frost,

The responses to the comments that you provided on 12/15/2011 are bulleted below each corresponding comment in ***bold italic*** text.

Operations Plan

1. The Plan must include a service area for the Facility, a list of counties from which the Facility will receive waste.
 - ***Service area information added to Introduction in Operations Plan.***
2. The Plan must include a list of the specific disposal facilities (by facility name and permit number) that the proposed Transfer, Recycle Resource Recovery and Processing Facility will transfer waste to.
 - ***Disposal facilities added to Section A) 2) Waste Disposal Sites.***
3. The Plan must include a description of the equipment, scales, structures, tipping floor, water source for cleaning, picking line, and compactor and hopper.

Note: Tipping floors, mixed waste sorting floors and elevated mixed waste picking lines must be covered in a building.

 - ***Section A) 6) revised to include more detail. Equipment listed in Section F).***
4. The Plan must include a description of site security and access control.
 - ***Site Features section added to Operations Plan.***
5. The Plan must include Facility operating hours.
 - ***Operating hours added to Introduction in Operations Plan.***
6. The Plan must include a description of signs to be posted at the entrance and within the site to direct traffic.

Note: Signs must provide a description of the types of waste received, the types of waste prohibited, operating hours, permit number, and emergency contact phone numbers.

 - ***Section A) 1) revised to include more detail.***
7. The Plan must indicate that a trained employee must be onsite at all times the site is open, overseeing the loading and unloading of waste.
 - ***Added statement to Section A) 1).***

8. The Plan must include a description of surface water control features, including run-on and run-off.
 - *Site Features section added to Operations Plan.*
9. Any water that has come in contact with wastes must be collected and disposed of as leachate. Describe the collection, storage, and disposal of leachate, contaminated wash water, and contaminated rainfall runoff. Runoff from recyclable storage areas should be collected and properly treated prior to disposal.
 - *A trench drain and holding tank have been added to the Operations Plan and drawing.*
10. The Plan must include procedures for cleaning and washing down the tipping floor.
 - *Section A) 6) revised to include more detail.*
11. The Plan must include procedures for maintaining the Facility in a sanitary condition, including actions to be taken to minimize noise, vectors, and odors.
 - *Added statement to Section A) 1).*
12. The Plan must include a procedure stating, the tipping floor will be clear of waste at the end of each operating day.
 - *Section A) 6) revised to include more detail.*
13. The Plan must include a procedures for litter and dust control, to prevent blowing litter from leaving the onsite management areas and from leaving the property.
 - *Site Features section added.*
14. The Plan must include a description of the storage of each separated recyclable and waste on site.
 - *Section A) 6) revised to include more detail.*
15. The Plan must include information on fire prevention and actions to be taken in the event of an accidental fire.
 - *Section G) revised to include more detail.*

Traffic Study

The Facility must submit the documentation required by North Carolina General Statute 130A-295.5.

- *Certification letter from NC DOT attached.*

Signature Page

The Owner/Operator should submit the attached signature page, completed and signed.

- *Completed, signed Signature Page attached.*

Drawings

The permit applicant must provide drawings showing the Transfer, Recycle Resource Recovery and Processing Facility's;

1. gates/fences or other access control features (access roads must be of all weather construction),
 - *8' fence already proposed on drawing, Access gate added*

2. utilities (wastewater system and stormwater drains),
 - *Proposed water and sewer main extensions are shown in R.O.W.*
3. any recyclable storage areas indicating types and sizes of containers,
 - *Containers added to drawing*
4. leachate and runoff collection details,
 - *Site Operations Plan revised and E&S Plan and details provided.*
5. buildings (existing and proposed), picking lines and scales/scale house, and
 - *Shown on drawing*
6. concrete foundations/pads and all other ground cover for the site operation.
 - *Shown on drawing*

Asphalt Shingles

The applications does not indicate the Facility plans to recycle asphalt shingles, however many facilities are requesting information on shingle recycling. I have attached a copy of the CAPA Best Practices Guide for your consideration.

- *Client currently has no plans to recycle shingles. Note added under Section E).*

Financial Assurance

- *No response required*

Compliance Review

- *Noted*

I hope that the responses provided are sufficient to satisfy the existing comments. Please feel free to contact me with any questions or comments.

Sincerely,
JOYCE ENGINEERING, INC.

Heather Wilburn, E.I.T
Project Consultant

Attachments:
Operations Plan- Revised January 2012
Signature Page
DOT letter
E&S Plans



Signature page of applicant -

Name of facility Crest Road Recycling

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that the information provided in this application is true, accurate, and complete to the best of my knowledge.

I understand that North Carolina General Statute 130A-22 provides for administrative penalties of up to fifteen thousand dollars (\$15,000.00) per day per each violation of the Solid Waste Management Rules. I further understand that the Solid Waste Management Rules may be revised or amended in the future and that the facility siting and operations of this solid waste management facility will be required to comply with all such revisions or amendments.

Mark B Pace

Signature

MARK B PACE

Print Name

8/10/12

Date

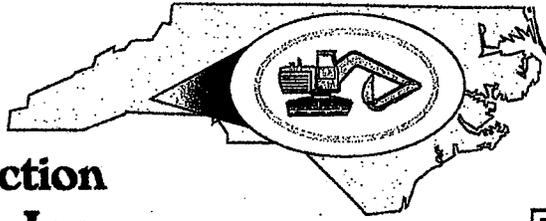
PRESIDENT / OWNER

Title

PACE CONSTRUCTION AND EXCAVATION

Business or organization name

Covering Western North Carolina



RECEIVED

JAN 11 2012

SOLID WASTE SECTION
ASHEVILLE REGIONAL OFFICE

Pace Construction & Excavation, Inc.

625 South Grove Street
Hendersonville, NC 28792

Office: (828) 896-9118
Fax: (828) 896-5411

- Complete Demolition
- Mobile Crusher Service
- Material Screening
- Recycled Concrete Aggregate
- Complete Site Work
- Roll Off Containers
- Scrap Metal Processing

Fac/Perm/Co ID #	Date	Doc ID#
P1239	1/11/12	15900

Jan.10, 2012

To: Larry Frost
Environmental Engineer--NCDENR
Re: Crest Rd C&D Material Recovery Facility

Mr. Frost,

In regards to N.C. General Statute 130A-295.5 concerning the traffic study requirement on material recovery facilities, we are submitting the attached letter as provided to us by the NCDOT. The letter which was written by Steve Cannon, District Engineer, outlines the DOT's reasons for not requiring a Traffic Impact Analysis nor a turn lane on SR 1803 in granting the driveway permit. We are submitting this cover letter and the attached letter from NCDOT in the hope that they will prove sufficient in meeting NCDENR's requirements. We are trying to provide Henderson County with a much needed recycling option, and are trying to do so with limited financial resources, so any help in this matter would be greatly appreciated. Thank you for your time and your consideration in this matter.

Sincerely,

Mark B. Pace
Pace Construction



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
Governor

EUGENE A. CONTI, JR.
Secretary

January 5, 2012

Mr. Barry Bonnett
Pace Construction
625 South Grove St.
Hendersonville, NC 28792

Dear Mr. Bonnett:

The NCDOT requires a driveway permit for new projects that will access a state roadway. In reviewing your request for the construction of the recycling facility on Crest Road (SR 1803), we asked you to provide us the anticipated volume of traffic (basically large trucks) that will be using the facility on a daily basis. Using the number of vehicles anticipated and the location of the proposed driveway, we found that a) the anticipated volume of traffic did not meet the threshold for requiring a Traffic Impact Analysis, b) the anticipated volume of traffic did not warrant the need for a left turn lane, and c) the sight distance requirement in both directions could be met from the proposed driveway location with grading improvements.

For the DOT to approve your driveway permit, we required you to improve the sight distance in both directions. After you completed this requirement, driveway permit #4511016 was issued for the access to Crest Road.

Should you have any questions or need additional information, please let us know.

Sincerely,

A handwritten signature in cursive script that reads "Steve Cannon".

Steve L. Cannon, PE
District Engineer

cc: driveway file #4511016

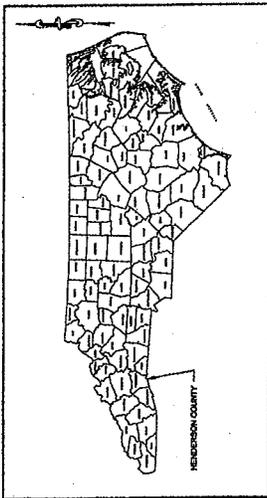
Division 14, District 1

Phone: (828) 891-7911

4142 Haywood Road, Mills River, NC 28759

Fax: (828) 891-5026

CREST ROAD C&D MATERIAL RECOVERY FACILITY EROSION AND SEDIMENT CONTROL PLAN EAST FLAT ROCK, NC



STATE
COUNTY LOCATION MAP



DRAWING INDEX	
SHEET	DESCRIPTION
EP-1	TITLE SHEET
EP-2	LEGEND AND GENERAL NOTES
EP-3	EXISTING CONDITIONS
EP-4	EROSION AND SEDIMENT CONTROL PLAN
EP-5	EROSION AND SEDIMENT CONTROL DETAILS
EP-6	EROSION AND SEDIMENT CONTROL DETAILS

OWNER INFORMATION	
OWNER NAME:	FACE CONSTRUCTION, INC.
ADDRESS:	221 W. LENOX AVENUE HERNDONVILLE, NC 28743
CONTACT:	MARK WATKINS
PROPERTY INFORMATION	
ADDRESS:	400 CREST ROAD EAST FLAT ROCK, NC
PARCEL NUMBER:	00070
ACRES:	0.22
ZONING:	R-1

SEPTEMBER 2011
REVISED NOVEMBER 2011

	JOYCE ENGINEERING, INC. 221 W. LENOX AVENUE HERNDONVILLE, NC 28743 PHONE: (813) 887-8887 FAX: (813) 887-8888 DESIGNED: JRM DRAWN: JRM CHECKED: JRM DATE: 11/20/11 PROJECT NO.: 854-1101-11
FACE CONSTRUCTION HERNDONVILLE, NC TITLE SHEET	PROJECT NO.: 854-1101-11 SCALE: AS SHOWN DRAWING NO.: EP-1

From the Desk of:

Mark B. Pace

416 Sabine Dr.

Hendersonville, NC 28739

RECEIVED

FEB 26 2013

SOLID WASTE SECTION
ASHEVILLE REGIONAL OFFICE

*****Organizational Chart**

*****Closure Cost Analysis**

Organizational Chart

President

Mark Pace

From the Desk of:

Mark B. Pace

416 Sabine Dr.

Hendersonville, NC 28739

Crest Rd. C&D Material Recovery Facility

Closure Cost Analysis

		<u>Unit Cost</u>	<u>Total Cost</u>
Disposal	2,400 tons	\$20.00	\$48,000
Hauling	126 loads	\$145	\$18,270
Loading	60 hours	\$95.00	\$5,700
Clean up		Lump Sum	\$1,150
	Total Closure Cost Estimate		\$73,120