



P.O. Box 41288, Greensboro, NC 27404-1288
Phone (336) 382-9362 www.ecologic-nc.com

November 4, 2011

Donna Wilson, Solid Waste Section
NCDENR, Div. of Waste Management
1646 Mail Service Center
Raleigh, NC 27699



**RE: Renewal of Permit to Operate (Permit No. 01-06)
Carolina Resource Recovery, Mebane, North Carolina**

Dear Ms. Wilson:

On behalf of Steven S. Scott of Mebane, NC, EcoLogic Associates, PC offers this permit renewal application for Carolina Resource Recovery, an organic waste management facility. The facility wishes to renew its Permit to Operate, but requests a change in classification from a Large, Type 1 Solid Waste Composting Facility to an LCID Treatment and Processing Facility. A review of past operations revealed that high-rate decomposition (composting) was never implemented due to local market demand for mulch and screened topsoil rather than compost.

In accordance with the requirements outlined in Rule .0301 and current guidance for treatment and processing facilities, the following *updated* information is being provided:

- (1) Permit application narrative;
- (2) Site and operation plans for a treatment and processing facility;
- (3) Figures 1 through 3 to illustrate site utilization; and
- (4) A letter from the Alamance County Planning Department.

Payment of the \$1,250 permit amendment fee will be submitted directly by Mr. Scott under separate cover. If there are any questions regarding this letter or the enclosures, please contact the undersigned at (336) 382-9362.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'MARK A. TAYLOR'.

Mark A. Taylor, PE
Project Consultant

C: Steven S. Scott, Carolina Resource Recovery
John Patrone, NCDENR, Div. of Waste Management, WSRO



COPY

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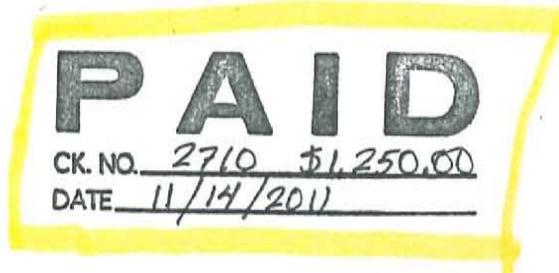
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Respectfully submitted,

Mark A. Taylor, PE
Project Consultant



C: Steven S. Scott, Carolina Resource Recovery
John Patrone, NCDENR, Div. of Waste Management, WSRO



APPLICATION - PERMIT TO OPERATE

CAROLINA RESOURCE RECOVERY **LCID TREATMENT & PROCESSING FACILITY** **MEBANE, NORTH CAROLINA**

November 2011

Prepared for:

Steven S. Scott
Mebane, North Carolina

Prepared by:



EcoLogic Associates, PC

PO Box 41288
Greensboro, North Carolina 27404
(336) 382-9362

FACILITY OVERVIEW

Name of Facility: Carolina Resource Recovery
Address: 3285 Jones Drive, Mebane, NC 27302
Responsible Person: Steven S. Scott, Owner and General Manager
Phone Number: (919) 563-3469

The Carolina Resource Recovery facility (“the facility”) is a land clearing and inert debris (LCID) treatment and processing operation. The overall operational goal of the facility is to complement the integrated landscape products production and distribution operations of Scott Stone, Inc. The recycled products produced by the facility include high quality mulch and screened topsoil for bulk sale to landscapers and contractors.

It is the intent of the facility to accept land-clearing debris (stumps, trees, limbs), high C:N yard trash, untreated and unpainted wood waste (excluding dimension lumber), uncontaminated pallets (owner-generated only), uncontaminated soil, and storm debris. Low C:N yard trash (e.g., grass clippings), leaves and other high nitrogen wastes will not be accepted.

LAND USE AND REGULATORY COMPLIANCE

Zoning The site is unzoned. Refer to the attached letter from Jason Martin, Planning Manager, Alamance County Planning Department, dated October 28, 2011.

Watersheds The site is not located in a water supply watershed. Refer to the attached letter from Jason Martin, Planning Manager, Alamance County Planning Department, dated October 28, 2011.

Stormwater

Stormwater leaving the site in existing ephemeral and intermittent streams discharges into an unnamed tributary to Haw Creek (WS-V NSW classification). NCDENR's Division of Water Quality issued a Certificate of Coverage under NPDES General Permit No. NCG120000 (Landfills) to Carolina Resource Recovery on November 1, 2007. The general permit expires at midnight on October 31, 2012. The Certificate of Coverage number is NCG120063 and a copy is attached. Carolina Resource Recovery is applying for coverage under NPDES General Permit No. NCG210000 (Timber Products and like activities) because it is more relevant to the operation than the existing permit. A copy of the replacement Certificate of Coverage will be forwarded to the Division of Waste Management upon receipt.

SITE DESIGN AND OPERATIONS

The LCID treatment and processing (T&P) area is located in the central portion of the site and occupies about 10.5 acres (see Site Plan and Figure 1). Access to the facility is provided by an all-weather road, which has a secure, gated entrance at Jones Drive.

The facility is situated on the south side of the 59-acre site, opposite low-density residential development to the north. The land to the south of the site (125 acres) is owned and occupied by Scott Stone, Inc., a landscape materials supplier owned by the facility's owner. Land to the east and west is mostly wooded and/or cultivated, i.e., undeveloped. Buffers have been provided as follows: 50 feet from property lines, 1000 feet from the nearest residence, 1000 feet from the nearest well, and 50 feet from streams.

Treatment and processing operations consist of sorting and segregating incoming wastes by type, stockpiling organic waste until enough is on hand for cost-effective grinding by contract, separating soil from stumps, grinding and screening organic wastes, and screening topsoil. The majority of the area is used to segregate incoming wastes prior to processing and to stockpile topsoil and organic wastes prior to grinding. Stockpiles averaging 14 feet high by

30 feet wide at the base are utilized. The design layout calls for 20-foot fire lanes around and between the stockpiles (see Figure 1). An area about 100 feet square is provided in the T&P area for optional organic waste grinding and screening operations.

Though inflow of waste materials to the facility cannot be accurately predicted due to the commercial nature of the operation and the cyclical nature of land development, inflow documented and reported over the last two years suggests that an average inflow for organic wastes of 72 cubic yards per week (the equivalent of 6 tandem axle dump trucks) is reasonable. Land clearing normally experiences seasonal peaks from about March 15 through June 30 and again from about September 1 through November 15. Somewhat less activity occurs during July and August, and very little activity occurs during the winter (November 15 through March 15).

A post-processing area (about 4.8 acres) is provided in the western portion of the site for mulch storage (see Site Plan and Figure 2). The design layout allows for 20-foot fire lanes around and between groupings of windrows (see Figure 2). Screening and load-out takes place in a designated area in the eastern portion of the site (about 1.9 acres) near the site entrance.

Stormwater runoff in all operational areas is directed to permanent ditches and diversions that direct it to stormwater BMP's and/or forested riparian buffers.

The facility is operated to minimize dust, noise and vectors. Dust is controlled by the application of water spray on facility roads during hot, dry weather. Waste processing may be postponed during periods of high wind to reduce dusting. Noise is not a problem given the intermittent nature of the operation and the relative isolation of the site. Only a few pieces of conventional heavy equipment operate at the facility, with the exception of a tub grinder that operates 2 or 3 times a year on average. Regarding vectors, the facility staff can facilitate drainage and minimize standing water to reduce the potential for mosquito breeding. The wastes being processed are not likely to attract other vectors since they are not putrescible.

Site personnel consist of the following:

- | | |
|----------------------|--|
| Site Operator: | Supervises site operations and site personnel under the direction of the General Manager. Also controls access and directs vehicles. |
| Equipment Operators: | Operate equipment associated with processing operations. |

A more detailed discussion of facility operations can be found in the attached Operating Plan.

RECORD KEEPING AND REPORTING

Records are kept at the site regarding wastes received and wastes processed and sold (mulch, screened topsoil, etc.). Records include customer or vendor name and address, type and volume of material received and sold, and date of transaction. An annual report is prepared each year for the period July 1 through June 30 and submitted to the Division of Waste Management by August 1.

The annual report will document the total quantity and types of waste received, including waste received from local governments, and the quantities of mulch and other products produced and sold. For reporting of volume-based transactions on a weight basis, processed volumes will be converted using a factor of 400 pounds per cubic yard (0.2 tons/CY). The annual report will be submitted on the reporting form provided by the Division of Waste Management for treatment and processing facilities.

OPERATING PLAN

CAROLINA RESOURCE RECOVERY LCID TREATMENT & PROCESSING FACILITY

Mebane, NC

Steven S. Scott, Owner	919-563-3469	Office
	336-214-7229	Cell
	sscott60@triad.rr.com	e-mail
	lscott@scottstone.com	e-mail
Steven S. Scott, Site Operator	336-214-7229	Cell
Emergency Contact (24 Hours)	Steven S. Scott, Owner	
Swepsonville Fire Dept.	336-578-1500	Fire Station
FIRE/RESCUE EMERGENCIES	911	Fire/EMS
Physical Address:	3285 Jones Drive Mebane, NC 27302	
Operating Hours:	Mon. – Fri.: 8:00 am – 5:00 pm Sat.: 7:00 am – 12:00 pm by appointment	

1. The facility accepts only the following solid wastes:

Land-clearing debris (stumps, trees, limbs), high C:N yard trash, untreated and unpainted wood waste (excluding dimension lumber), uncontaminated pallets (owner-generated only), uncontaminated soil, and storm debris. Low C:N yard trash (e.g., grass clippings), leaves and other high nitrogen wastes will not be accepted.

2. The average inflow of organic wastes is 72 cubic yards per week (the equivalent of 6 tandem axle dump trucks) based on historical usage.
3. All unscheduled vehicles entering the facility are directed to the nearby Scott Stone office, where pertinent information is recorded on a ticket and/or customer log, with the hauler name, vehicle type and size, and type of waste materials noted. The office attendant then directs the vehicle driver to the site, where the Site Operator directs the vehicle to the appropriate off-loading area. The Site Operator selects vehicles on a random or targeted basis and conducts an

inspection of materials as they are being off-loaded. The visual inspection helps assure that received materials are compatible with the intent and goals of the facility. Reusable inert materials such as brick or stone may be transported to neighboring Scott Stone, Inc. if a market for such materials exists.

4. Treatment and processing operations consist of sorting and segregating incoming wastes by type, stockpiling organic waste until enough is on hand for cost-effective grinding by contract, separating soil from stumps, grinding and screening organic wastes, and screening topsoil.
5. Land clearing and storm debris and other high C:N wastes are piled in linear stockpiles averaging 14 feet high by 30 feet wide at the base in the treatment and processing areas (see Figure 1). The design layout calls for 20-foot fire lanes around and between the stockpiles (see Figure 1). Some variation in the alignment of stockpiles is expected, but the piles are oriented to provide drainage so water won't pond on the site. Occasionally, the piles are relocated a short distance for the purpose of separating and harvesting topsoil from the partially decomposed wood.

Periodically, when prompted by customer demand, advancing decomposition, and/or site space considerations, all or part of the stockpiled woody debris is ground to create mulch for sale. The processed mulch is then transferred to the post-processing area for storage (see Figure 2). The design layout allows for 20-foot fire lanes around and between groupings of windrows (see Figure 2). Screening and load-out takes place in a designated area in the eastern portion of the site near the site entrance (see Figure 3). If the facility reaches or has reached capacity, waste receipt will be halted until space is available to resume normal operations.

6. All non-conforming waste and non-recyclable material is stored on site in a designated (small) area, then transferred to a roll-off container when sufficient volume accumulates. Facility personnel are responsible for transporting the roll-off container to an appropriate and properly permitted solid waste disposal facility.
7. The following equipment is available for use at the facility. Additional equipment and vehicles are available at Scott Stone (contiguous site) for use at the facility as needed.

1999 Extec Screener with vibrating grid and stacking conveyor

1980 Fiat Allis 345-B Loader

Ford 555-B Loader

2007 Case Wheel Loader

1997 John Deere 5300 Tractor with 540 Loader

8. The facility entrance is secured by a locked gate to prevent access except when scheduled or when an attendant is on duty, and to prevent unauthorized access at all times. An attendant is on duty at all times the facility is open for public use to prevent acceptance of unauthorized wastes.
9. Access roads are of all-weather construction and are well maintained.
10. Surface water is diverted from the working area at all times. Stormwater BMP's, retention structures, and/or other approved measures are utilized to prevent soil and other pollutants from accessing surface waters and to prevent excessive on-site erosion.
11. A sign is posted at the facility entrance showing the contact name and telephone number in case of an emergency, acceptable wastes and the permit number.
12. Fire, ambulance and police telephone numbers are posted in a place that is readily accessible. The facility personnel are trained in basic on-site fire response procedures and have access to heavy equipment, water and extinguishers to aid in the early suppression of fire. Fire suppression may include isolating and spreading burning material, application of water or chemical suppressant, and/or covering with soil.



ECOLOGIC ASSOCIATES, P.C.
 PO BOX 41288
 GREENSBORO, NC 27404-1288

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PROJECT:
 CAROLINA
 RESOURCE RECOVERY
 MEBANE, NC



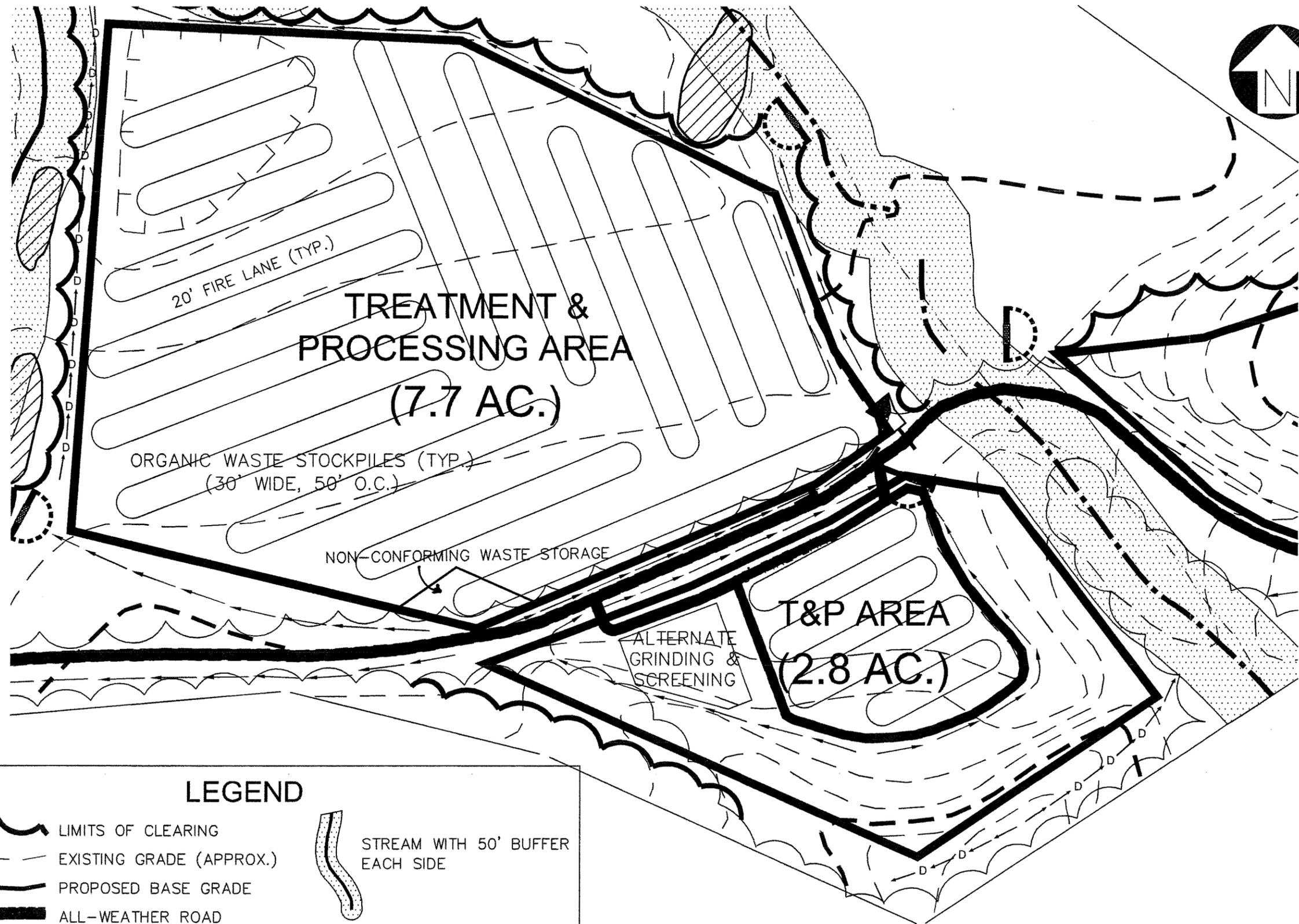
TREATMENT &
 PROCESSING
 AREAS LAYOUT

SCALE: 1"=100'
 DATE: 11/1/11
 DRN. BY: MAT
 CHECKED BY:

REVISIONS:	
SHEET 1	OF 3

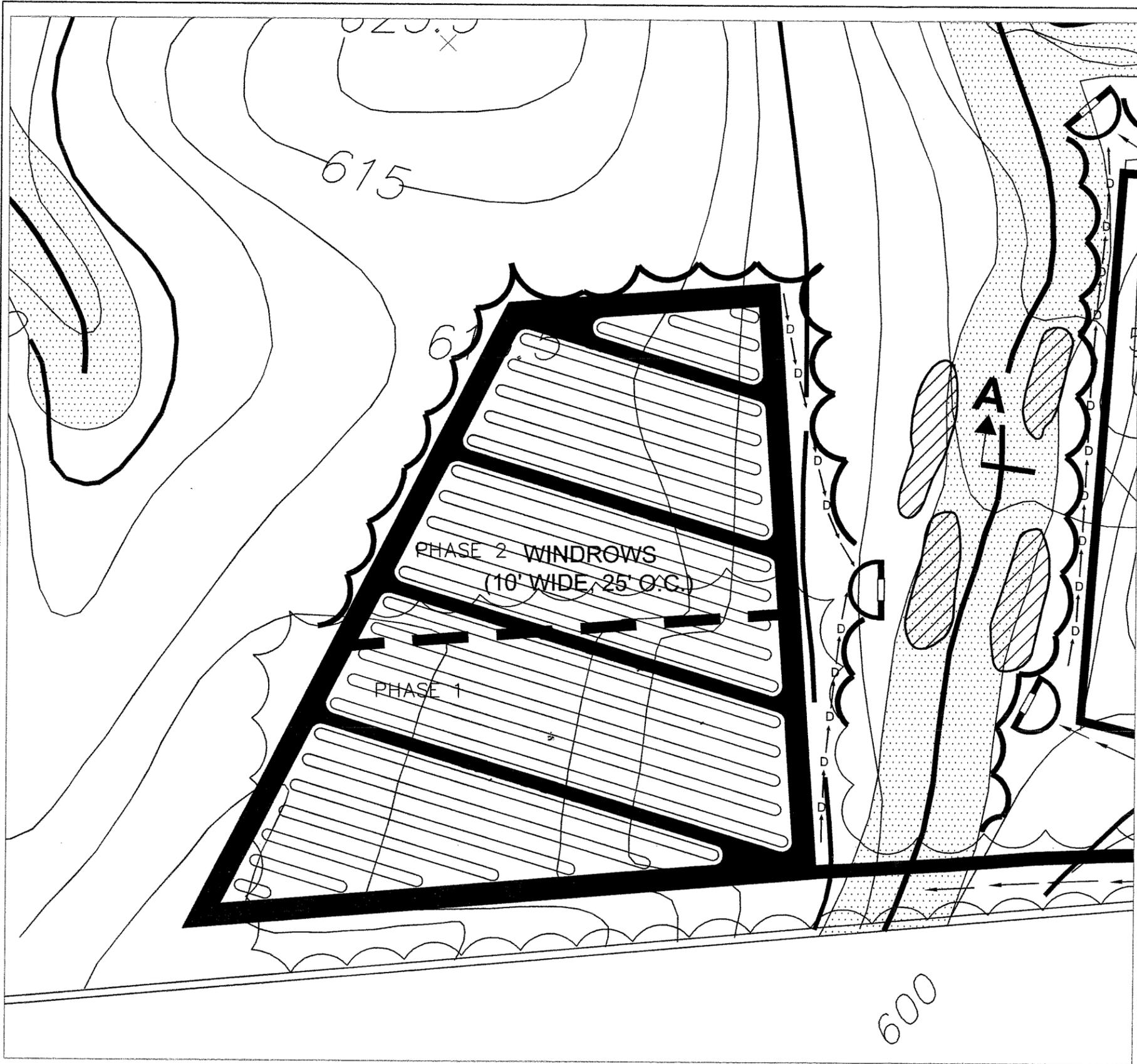
DRAWING

FIGURE 1



LEGEND

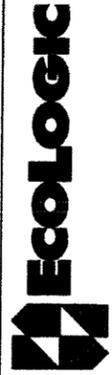
- LIMITS OF CLEARING
- EXISTING GRADE (APPROX.)
- PROPOSED BASE GRADE
- ALL-WEATHER ROAD
- STORMWATER CHANNEL
- PERMANENT DIVERSION
- STREAM WITH 50' BUFFER EACH SIDE
- PROBABLE WETLAND



NOTES: 1. PHASE 2 IS FOR FUTURE EXPANSION AS NEEDED.

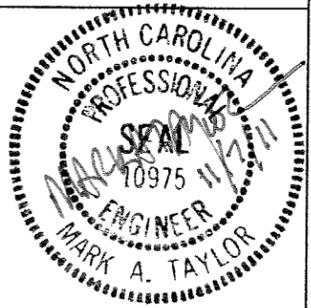
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PROJECT:
 CAROLINA
 RESOURCE RECOVERY
 MEBANE, NC



POST-PROCESSING
 AREA LAYOUT

SCALE: 1"=100'
 DATE: 11/1/11
 DRN. BY: MAT
 CHECKED BY:

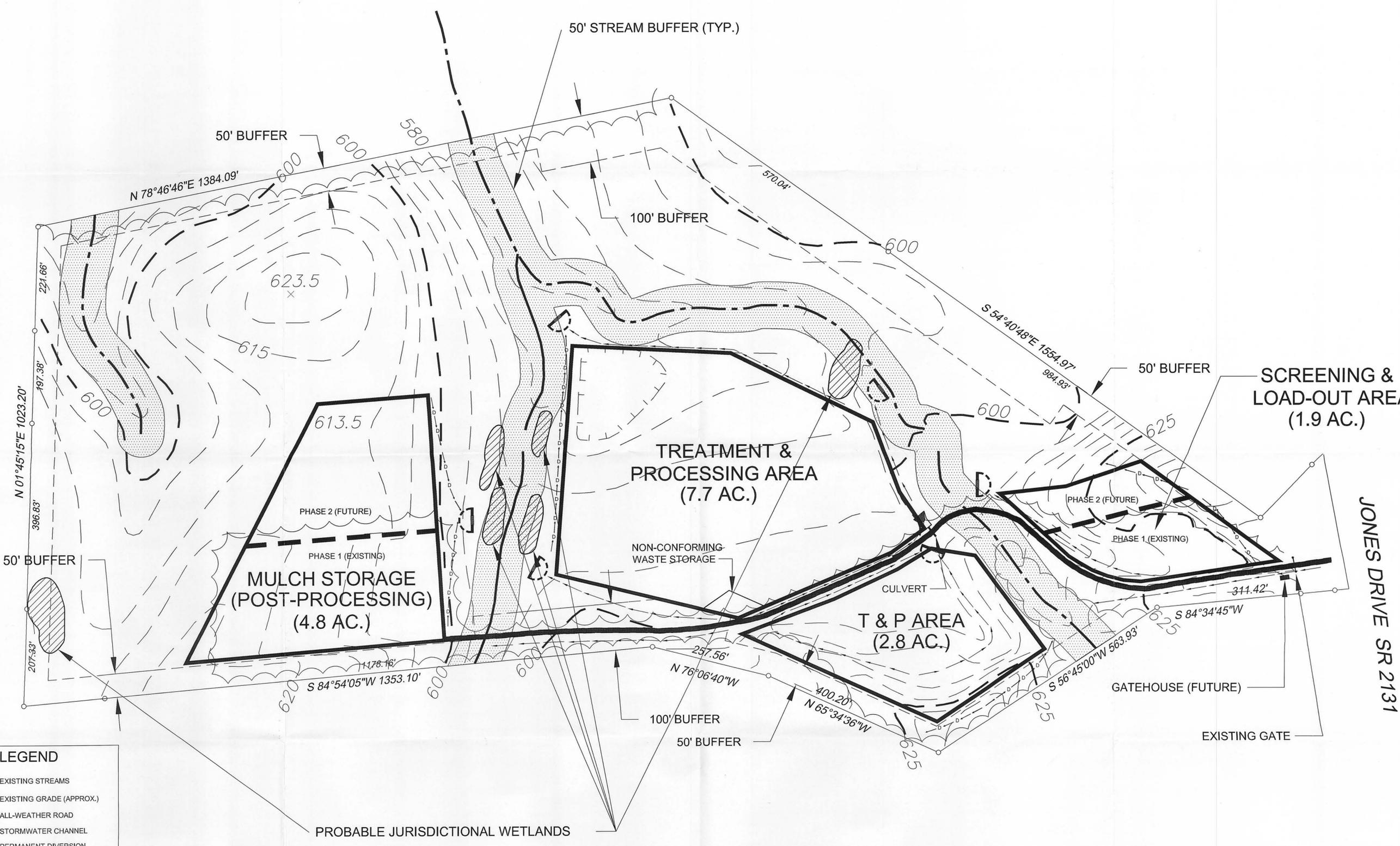
REVISIONS:

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SHEET 2 OF 3

DRAWING

FIGURE 2



LEGEND

- EXISTING STREAMS
- EXISTING GRADE (APPROX.)
- ALL-WEATHER ROAD
- STORMWATER CHANNEL
- PERMANENT DIVERSION
- TEMPORARY SEDIMENT TRAP
- OUTLET PROTECTION
- 50' RIPARIAN BUFFER EACH SIDE
- PROBABLE WETLAND

PROBABLE JURISDICTIONAL WETLANDS



NO.	DESCRIPTION	DATE
REVISIONS		

SITE PLAN

SCALE: 1"=100'
 DATE: 11/1/11
 DRN. BY: MAT
 CHECKED BY: MAT

PROJECT NO:
 -
 SHEET 3 OF 3
 DRAWING

FIGURE 3

Alamance County

PLANNING DEPARTMENT
217 College Street, Suite C
Graham, North Carolina 27253
Tel. (336) 228-1312

JASON S. MARTIN
Planning Manager

October 28, 2011

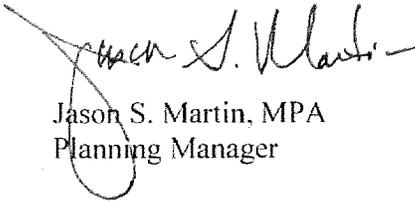
Steven Scott
Carolina Resource Recovery
3285 Jones Dr.
Mebane, NC 27302

RE: Zoning letter for Parcel ID 163061

To whom it may concern:

The property referenced above is not located in a Water Supply Watershed and is presently unzoned. If you have any questions, please call me at (336) 570-4052

Sincerely,



Jason S. Martin, MPA
Planning Manager

