Fac/Perm/Co ID #	Date	Doc ID#
P1209	5/26/10	10715

OPERATIONS MANUAL

ABBEY GREEN RECYCLING CENTER
5030 OVERDALE ROAD
WINSTON-SALEM, NORTH CAROLINA

Prepared for:

ABBEY GREEN, INC.

KLEINFELDER
Bright People. Right Solutions.

KLEINFELDER
Bright People. Right Solutions.

April 6, 2010
File No. 102111 | GSO10R059

Mr. John Murray, P.E.
NCDENR
DWM – Solid Waste Section
Mooresville Regional Office
610 East Center Avenue, Suite 301
Mooresville, North Carolina 28115

RE: Abbey Green Recycling Center
5030 Overdale Road
Winston-Salem, North Carolina

Dear Mr. Murray:

On behalf of Abbey Green, Inc., Kleinfelder is submitting the Operations Manual for the referenced project. This manual has been revised based upon comments provided from your engineering review letter dated March 4, 2010. Additional information has been provided in response to the items requested as indicated in the following table.

	REQUESTED INFORMATION	LOCATION OF INFORMATION
1.	Counties to be served	Sections 2.5.2 and 2.5.3
2.	Air quality agency communication	Section 3.4 and Appendix A
3.	NPDES permit	Section 3.2 Appendix B
4.	Financial assurance information	Section 1.14
5.	Environmental Compliance Review	To be completed by DWM
6.	Construction waste handling	Section 2.6.1
7.	Asbestos containing material	Section 2.4
8.	Source Separated wood pallets and cardboard	Section 2.6.2
9.	Incident reporting	Sections 1.8 and 1.11
10.	Prevention of nuisance conditions	Sections 1.7.5, 1.10, 3.3, and 3.4
11.	Sedimentation/erosion control	Section 3.2

313 Gallimore Dairy Road, Greensboro, NC 27409 **p** | 336.668.0093 **f** | 336.668.3868

Should you have any questions or require clarification, please contact Chris Hay at 336.668.0093 or chay@kleinfelder.com.

Very truly yours,

KLEINFELDER SOUTHEAST, INC.

John M. Stewart, P.G.
Project Professional

Christopher W. Hay, E.I.
Environmental Group Manager

JMS/CWH:cas

Enclosure: Operations Manual

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ABBEY GREEN RECYCLING CENTER

OPERATIONS MANUAL

TABLE OF CONTENTS

1.0 GENERAL FACILITY OPERATIONS

1.1 Overview

This Operations Manual was prepared for operations of the Abbey Green Recycling Center facility (Permit No. XXX) located at 5030 Overdale Road in Winston-Salem, North Carolina. This document discusses the operation of the recycling facility and other solid waste management activities. Refer to the attached site plan for the general layout of the facility.

All personnel involved with the management or supervision of the facility shall review and update the documents as needed. A copy of this Operations Manual will be maintained at the facility and will be available for use at all times.

1.2 Contact Information

All correspondence and questions concerning the operation of the Abbey Green Recycling Center should be directed to the contact listed below. For fire or police emergencies, dial 911.

Abbey Green, Inc. (Operator)
4400 Silas Creek Parkway | Suite 301
Winston-Salem, North Carolina 27104
Phone: 336.345.7793
Contact: Mr. Jim Bryan
Email: jbryanlj@gmail.com

1.3 Facility Operating Hours

Proposed hours of operation will be 7:00 A.M. to 11:00 P.M. Monday through Friday and Saturday 7AM to 4PM. The facility will normally receive C&D debris from haulers and construction sites from 7:00 AM to 6:00 PM Monday through Friday. No debris will be accepted on Saturday. The facility will be closed on Sundays.

In the event of disaster or other emergency situations, the supervisor may request approval from the DWM regional office to allow additional temporary operating hours.

1.4 Access Control

Access to process and storage areas of the facility will be controlled by a combination of fences, gates, and natural barriers and strictly enforced operating hours. An attendant will be on duty at all times when the facility is open for public use to enforce access restrictions.

1.4.1 Physical Restraints

The site will be accessed by an entrance from the private road to the northwest of Overdale Road. Waste will be screened at the scales by the scale house operator. All waste will have been weighed prior to being processed on the site. The entrance will have a gate which will be securely locked during non-operating hours.

1.4.2 Security

Haulers will be stopped at the scale house for scanning and photographic documentation of open loads. Drivers will be required to identify the contents of the load and origin. Incoming loads on closed trailers or trucks will be inspected upon unloading at the tipping floor. Unacceptable materials will leave the facility in the vehicle that brought them. Frequent inspections of gates and fences will be performed by facility personnel. Evidence of trespassing, vandalism, or illegal activities will be reported to the Owner. The facility will be securely locked during non-operating hours.

1.5 Signage

Prominent signage containing the information required by the North Carolina Division of Waste Management (DWM) will be placed at the main facility entrance. The signs will provide information on operating hours, operating procedures, and acceptable wastes. Service and maintenance roads for use by operations personnel will be clearly marked and barriers (e.g., traffic cones, barrels, etc.) will be provided as required.

1.6 Personnel Requirements

The anticipated personnel requirements for operation and maintenance of the facility are listed in the following table:

DESCRIPTION	PRIMARY FUNCTION (ALLOCATION)
1) General Manager & Office Staff (5)	Overall management of the facility
2) Scale house attendant (1)	Receiving and weight for incoming loads
3) Operators (4)	Management of tipping floor and recycling areas
4) Commercial Drivers (4) *	Transfer of processed C&D material
5) Labor (12)	General labor and operational staff around the site

* Commercial drivers subject to change in response to actual volume of debris received.

At least one member of the supervisory staff will be experienced in management of the operations. Each facility employee will participate in an annual training course (led by supervisory staff). As part of this training, personnel learn to recognize loads which may contain prohibited wastes. A minimum number of personnel will be required to operate the facility efficiently. A scale house attendant, laborers to work on the tipping floor and processing line(s), equipment operators, and a site supervisor are anticipated to be employed for the daily operation of the facility.

1.7 Health and Safety

All aspects of the operation of the facility were developed with the health and safety of operations staff, customers, and neighbors in mind. Prior to commencement of operation of the facility, a member of the operating staff will be designated as the site safety officer. This individual, together with the facility's management will modify the site safety and emergency response program to remain consistent with National Solid Waste Management Association and Occupational Safety and Health Administration (OSHA) guidance.

Processing equipment will be appointed with protection from moving parts, pinching, electrical connections, and sharp objects. Automated and/or manual emergency shut-off controls will also be provided. Safety devices for mobile equipment will include equipment rollover protective cabs, seat belts, audible reverse warning devises, hard hats, safety shoes, and first aid kits. Equipment

exhaust should be vented at an appropriate height in excess of the breathing zone. Other personal protective equipment (gloves, hearing protection, coveralls, or boots) will be required based on an employee's duties. All personnel will be encouraged to complete the American Red Cross Basic First Aid course. All personnel should be familiar with the equipment and duties of their position such that they will be able to identify potential hazards.

Each facility employee will participate in monthly safety "lunch pail" meetings with topics relevant to worker safety at the Abbey Green facility. Each facility employee will participate in an annual training course in health and safety (led by supervisory staff). All training shall be documented and attested to by signatures of the trainer and trainee.

Each employee of Abbey Green will be required to submit to random drug and alcohol tests by a third party testing company.

The following are some general requirements for the health and safety of workers at the Abbey Green Recycling Center.

1.7.1 Personal Hygiene

The following items are recommended as a minimum of practice:

- Wash hands before eating, drinking, or smoking.
- Wear appropriate personal protective equipment.
- Wash, disinfect, and bandage any cuts, no matter how small. Any break in the skin can become a source of infection.
- Maintain fingernails closely trimmed and clean (dirty nails can harbor pathogens).

1.7.2 Personal Protective Equipment

Prior to the issuance of personal protective equipment (PPE) a job hazard analysis will be performed by a qualified industrial hygienist. PPE must be evaluated as to the level of protection necessary for particular operating conditions and then made available to facility employees. The list below includes PPE typically used and/or required in a solid waste management facility workplace.

- Safety shoes with steel toes.
- Hearing protection should be used in areas where exposure to high decibel noise levels is expected.
- Dust filter masks.
- Hard hat.
- Abrasion-resistant gloves.
- High-visibility vest and/or other clothing.

Following use, PPE should be disposed of or adequately cleaned, dried, or readied for reuse.

1.7.3 Mechanical Equipment Hazard Prevention

The loaders and other equipment should be operated with care and caution. All safety equipment such as horns, backup alarms, and lights shall be functional or taken out of service until repaired. A Lockout-Tagout program shall be used to identify equipment in need of or under repair and ensure that operation is "off-limits" prior to maintenance or repair. All operators shall be trained in the proper operation of equipment.

1.7.4 Employee Health and Safety

Review the following periodically with each employee:

- Consider safety first when planning and conducting activities.
- Post emergency contact phone numbers.
- Post route to nearest emergency medical facility.
- Post evacuation plan.
- Provide easy and visible access to the Right to Know materials.
- Provide easy and visible access to the first aid kits and fire extinguishers.

1.7.5 Physical Exposure

Facility personnel may come in contact with fluids, solids, and airborne constituents found at the recycling center. Routine training should be conducted regarding the individual and collective materials used in the recycling process and their associated hazards. Training concerning safe

work practices around these potential exposures should include use of PPE and proper disposal procedures.

The tipping floor, sorting areas, and unloading areas must be maintained in a clean, sanitary condition.

1.8 Communications

The scale house and office have telephones in case of emergency and to conduct day-to-day business. The scale house and office will communicate with equipment operators and supervisors at the facility by radio.

In an emergency the facility will sound a horn and employees will be trained to congregate at a rally point. Emergency telephone numbers will be displayed in the scale house and office.

Fires and non-conforming waste incidents shall be reported to the Regional Waste Management Specialist within twenty-four hours followed by a written notification to be submitted within fifteen days.

1.9 Utilities

Electrical power, water, and telephone will be provided at the scale house and office. Restrooms will be provided at the site.

1.10 Litter Control

The perimeter fence will act as a barrier to keep littler contained within the site. Facility operators will inspect materials entering the facility. If unacceptable materials are delivered to the facility, the operators will deny the load or unacceptable materials will be returned on the same truck. De minimus litter sorted out during processing will be contained in an appropriate receptacle for delivery to an approved disposal facility. Windblown materials must be collected by the end of the day and no windblown material may be allowed to leave the facility boundary.

1.11 Fire Prevention and Control

Due to the risk of fire and health and safety of personnel, incentives will be in place to discourage smoking on the premises. However, smoking is limited to

personnel breaks and only in designated areas screened and located well away from the tipping floor, the processing line, and the storage of processed materials. Fire lanes will be maintained and passable at all times.

The possibility of fire within the facility or a piece of equipment must be anticipated in the daily operation of the facility. Fire suppression equipment shall be provided to control accidental fires and arrangements have been made with the local fire protection agency to ensure any incident at the facility will be handled with the appropriate equipment. A combination of factory installed fire suppression systems and/or portable fire extinguishers will be operational on all heavy pieces of equipment at all times. For larger or more serious outbreaks, local fire and emergency agencies will be called (dial 911).

Abbey Green, Inc will verbally notify the DWM within 24 hours of discovery of a fire within the recycling area. Additionally, written documentation describing the fire, the actions carried out to extinguish the fire, and a strategy for preventing future occurrences will be provided to the DWM within fifteen days following any such occurrence.

1.12 Severe Weather Conditions

Unusual weather conditions can directly affect the operation of the facility. Some of these weather conditions and recommended operational responses are as follows:

1.12.1 Ice Storms

An ice storm can make access to the facility dangerous, prevent movement and, thus, may require closure of the facility until the ice is removed or has melted. Additionally, the "processing line" is powered by electricity making continued operation during weather related power outages very difficult.

1.12.2 Electrical Storms

The open recycling areas of the facility are susceptible to the hazards of an electrical storm. If necessary, recycling activities will be temporarily suspended during such an event. To guarantee the safety of all field personnel, refuse will be taken in rubber-tired vehicles.

1.12.3 Windy Conditions

Facility operations during a particularly windy period may require that the active tipping area and sorting operations be temporarily suspended.

1.12.4 Violent Storms

In the event of hurricane, tornado, or severe summer and/or winter storm warning issued by the National Weather Service, facility operations may be temporarily suspended until the warning is lifted.

1.13 Record Keeping Program

The Owner will maintain the following information in an operating record at the landfill:

1) Debris inspection records,
2) Tonnage records including source of generation and scale certifications,
3) List of generators and haulers that have attempted to dispose of restricted wastes,
4) Employee training procedures and records of training completed,
5) Annual facility reports (to be submitted by August 1 of each year for the previous July 1 through June 30).

Industry specific software will be used for record keeping. Operating records will be presented, upon request, to the DWM for inspection. A copy of the current Operations Manual will be available at the facility for use at all times.

1.14 Financial Assurance

A closure cost estimate equal to the cost to hire a third party to remove and clean up a week's worth of waste from the facility has been provided below. A bond in this amount is held for financial assurance.

Closure Cost Estimate:

Assumptions

- 110,000 tons per year potential
- 30,000 tons per year 2010 projected tonnage rate to be received
- Closure based on 110,000 tons or 2,115 tons per week
- 2115 divided by 20.5 tons/load = 103 loads
- $102.5 /load cost to load and haul
- 24 man-hours @ $15/hr cleanup = $360
- 24 man-hours @ $30/hr broom tip floor = $720

Summary of Costs

Disposal costs	2,115 tons x $30/ton = $63,450.00
Load and Hauling costs	103 loads x $102.5/load = $10,557.50
Clean up and broom floor costs	$360 + $720 = $1,080.00
Total Estimated Cost of Closure	**= $75,087.50**

2.0 DEBRIS HANDLING OPERATIONS

2.1 Overview

This section describes the required debris handling operations for the Abbey Green Recycling Center facility. In addition to the C&D debris received at this facility, the facility also processes new construction debris such as lumber, ferrous and non-ferrous metals, etc. These materials are stored at the facility until there are sufficient quantities for pick up or delivery to various recycling contractors or end-users. Materials that are susceptible to degradation due to rain will be covered with waterproof tarps.

2.2 Acceptable Debris

The following debris may be recycled at the facility:

- Wood (treated, untreated, and engineered wood products),
- Agricultural processing wastes,
- Aggregates (concrete, asphalt pavement, brick, and block),
- Drywall,
- Roofing materials,
- Metals,
- White goods,
- Plastics (poly vinyl chloride, poly ethylene, high density poly ethylene, and ABS plastics),
- Clean baled cardboard,
- Carpet and padding, and
- Other wastes as approved by the Solid Waste Section of the Division of Waste Management.

2.3 Prohibited Wastes

Only wastes, as defined in Section 2.2 above or approved by the DWM may be accepted. No other wastes may be accepted.

2.4 Debris Screening Program

In order to assure that prohibited wastes are not entering the facility, a screening program will be implemented. Debris entering the facility will be screened by trained personnel. These individuals have been trained to recognize indications of suspicious wastes, including: hazardous placarding or markings; liquids, powders, or dusts; asbestos containing materials; sludges; bright or unusual colors; drums or commercial size containers; and "chemical" odors. The screening program for visual and olfactory characteristics of prohibited wastes is an ongoing part of the facility operation.

All vehicles must stop at the scale house located at the entrance of the facility and visitors are required to sign-in. All debris transportation vehicles are weighed and the content of the load assessed by the scale attendant's inquiry, photographic equipment, and scanners. The scale attendant requests from the driver of the vehicle a description of the debris it is carrying to ensure that unacceptable waste is not allowed into the facility. The attendant then visually checks the vehicle as it crosses the scale. Signs informing users of the acceptable and unacceptable types of waste are posted at the scale house. Once passing the scales, the vehicles are routed to the tipping floor.

An attendant trained to identify wastes that are unacceptable will inspect the debris discharged at the tipping floor. If unacceptable waste is found, the load will be isolated, reloaded, and the generator/hauler will be logged and escorted out of the facility. Periodically, minor wastes may be encountered while sorting and processing (i.e. random bag of household waste, litter, etc.). Containers will be staged onsite such that these minor wastes will be placed in a container to be disposed at an appropriate licensed facility.

2.5 Facility Operations

2.5.1 Operating Capacity

The Operating Capacity for the recycling facility is estimated to be approximately 450 tons per day of C&D debris. The anticipated proportions of various debris is that of typical C&D materials:

- Wood (28%),
- Aggregates (25%),

- Drywall (14%),
- Roofing Materials (13%),
- Metals (5%),
- Plastics (5%),
- Cardboard (3%), and
- Other Wastes as approved by the Solid Waste Section of the Division of Waste Management (7%).

Processed materials will not be stored on site for more than 90 days.

2.5.2 Service Area

The anticipated service area for the facility is generally anticipated to be concentrated in Forsyth County and its surrounding counties. Debris will not be accepted from out-of-state. Specifically, the facility will service the following counties:

Alamance	Guilford	Surry
Cabarrus	Mecklenburg	Union
Davidson	Randolph	Yadkin
Davie	Rockingham	
Forsyth	Stokes	

2.5.3 Disposal Facilities

The anticipated disposal facilities for the recycling center (subject to change) include any facility in the State of North Carolina that holds a solid waste permit for the specific waste disposed.

The major recipient of processed debris that can not be recycled will be the Forsyth County facility at Old Salisbury Road (Permit No. 3412-CDLF-1995).

A municipal solid waste transfer station is located adjacent to the site. Per approval from the Winston-Salem/Forsyth County Utilities Commission

and the DWM, some of the non-recycled materials may be transferred for disposal through this facility.

A small portion of the recycled inert and aggregate-like material may be retained on site as beneficial fill to improve the site topography.

In the event that new disposal facility agreements are negotiated, the facility will provide a notice to the Division of Waste Management within 30 calendar days.

2.5.4 Mobile Equipment Requirements

The Owner will maintain onsite equipment required to perform the necessary recycling activities. Periodic maintenance of all equipment and minor and major repair work will be performed within designated maintenance zones or off-site. Generally, loading, hauling, dumping, mixing, and lift equipment may be used for various tasks at the facility.

The anticipated equipment requirements for operation and maintenance of the site are listed in the following table:

DESCRIPTION	PRIMARY FUNCTION (ALLOCATION)
1) Excavator	Loading
2) Front End Loader(s)	Loading, recycling, storage, and site cleanup
3) Transfer Trucks (4) *	Collection and transfer of C&D material

* Commercial drivers subject to change in response to actual volume of debris received.

2.6 Recycling Operations

The facility's recycling area is used to store, separate, and contain co-mingled recyclable materials or pre-sorted materials such as new construction materials. The facility will utilize equipment as defined in Section 2.5.4 to facilitate hand sorting of materials and bins for storage.

2.6.1 General Procedures

The transfer operations will be conducted in accordance with the approved Operation Plan and conditions of the Solid Waste Permit issued by the DWM.

Facility operations are anticipated as follows:

1) Collection vehicles delivering debris to the facility will enter through the main entrance.
2) Pass by and over the scale house and scales for weight.
3) Continue along the access road until reaching the tipping floor.
4) Once the vehicle is in position, the debris load will be discharged.
5) Only an amount of waste sufficient to begin sorting operations the next day may be left on the tipping floor.
6) In the event the sorting process is not operational, then waste may not be deposited on the tipping floor and must be diverted directly to a landfill.
7) Except for wood, concrete, and aggregate, recoverable materials must be placed in containers.
8) Non-recyclable materials must be securely placed in containers or trucks, and removed within 72 hours.

2.6.2 Recycling/Source Separation

As a means of capturing recyclable materials and/or debris screening, source separation will be conducted as follows:

1) The track hoe, loader, or laborers will separate materials to be recycled and/or processed. It is anticipated that most of the recyclables and materials to be separated will arrive at the facility as new construction debris.
2) Materials to be recycled and/or processed may stay on the floor (not in containers) for no more than 48 hours or two (2) working days.
3) Concrete (cement and asphaltic/bituminous): may be delivered and stockpiled at the limits of the recycling area. The concrete debris will be crushed and subsequently stockpiled in this same area until it is removed from the site for sale as fill, aggregate, etc. as markets allow.
4) Source separated wood pallets and cardboard must be unloaded directly onto the sorted clean wood pile and cardboard

containers, respectively. These materials should not be unloaded on the tipping floor.

2.6.3 Containers

Containers, generally 8'x20' or 8'x15', used for holding recyclables and unacceptable waste will be stored in the recycling area. The containers will be removed from the processing area to designated storage areas as they are filled.

2.6.4 Markets

The final destination of the recyclable materials may vary depending upon market prices for such materials. In general, materials which have valid markets will be recycled; however, markets shall fluctuate. In any case, no more than one load, respective to the material, shall be stored at any one time and in no case more than 90 days. Recycled materials sensitive to moisture and/or likely to generate leachate shall be covered with tarpaulins.

Anticipated end markets for the recyclable materials are as follows:

Metals	Delivered to local metals recycling facility
Wood	Facility near site for boiler fuel
Concrete and Aggregates	Bricks may be banded and palletized for sale to landscaping contractors; concrete, asphalt, and broken brick and block will be crushed and stockpiled until it is removed from the site for sale as fill, aggregate, etc. as markets allow
Drywall	Process onsite and sell raw gypsum or soil amendment as markets allow
Carpeting and Padding	Local recycling facility, as markets allow
Baled Plastic	Delivered to local recycled plastics company
Baled Cardboard	Sale in local market for recycled paper products
Shingles	If certified as asbestos-free, may be ground for use in asphalt manufacturing

3.0 ENVIRONMENTAL MANAGEMENT

3.1 Overview

This section reviews the overall environmental management tasks required for the successful operation of the facility.

3.2 Surface Water Control

As used herein, the definition of "surface water" is water which results from precipitation or site run-on that has not contacted the debris.

Proper control of surface water will accomplish the following goals:

- Prevent run-on of surface water into debris handling areas;
- Prevent the run-off of surface water that has come into contact with the debris (i.e. leachate);
- Limit the erosion caused by surface waters; and
- Limit sediments carried off-site by surface waters.

An erosion and sedimentation control plan has been approved for the site by Forsyth County. This plan describes both short and long term engineered features and practices for preventing erosion and controlling sedimentation at this site. Sedimentation and erosion control activities must be conducted in accordance with the Sedimentation Control Act (NCGS 113A-50, et seq.) and rules promulgated thereunder (15A NCAC 4).

Erosion control measures have been designed/engineered within the drainage channels and at points of stormwater discharge. The erosion control maintenance plan includes the following:

1) Inspect all sedimentation and erosion control devices for stability and function each week and following each rainfall event.
2) Remove silt/sediment from sediment traps and stormwater pond when accumulated volume has reached 50% of capacity.
3) Remove accumulated silt/sediment from behind temporary sediment fence when depth exceeds approximately 0.5 feet. Repair and replace silt fence as necessary.

3.3 Vector Control

Control of insects, rodents, and other vermin will be accomplished by periodic cleaning of the facility. Spilled or wind-blown debris along the access road will be cleaned up daily. The facility will be cleaned, as necessary, each day to maintain a sanitary operation. Effective vector control measures must be applied at all times.

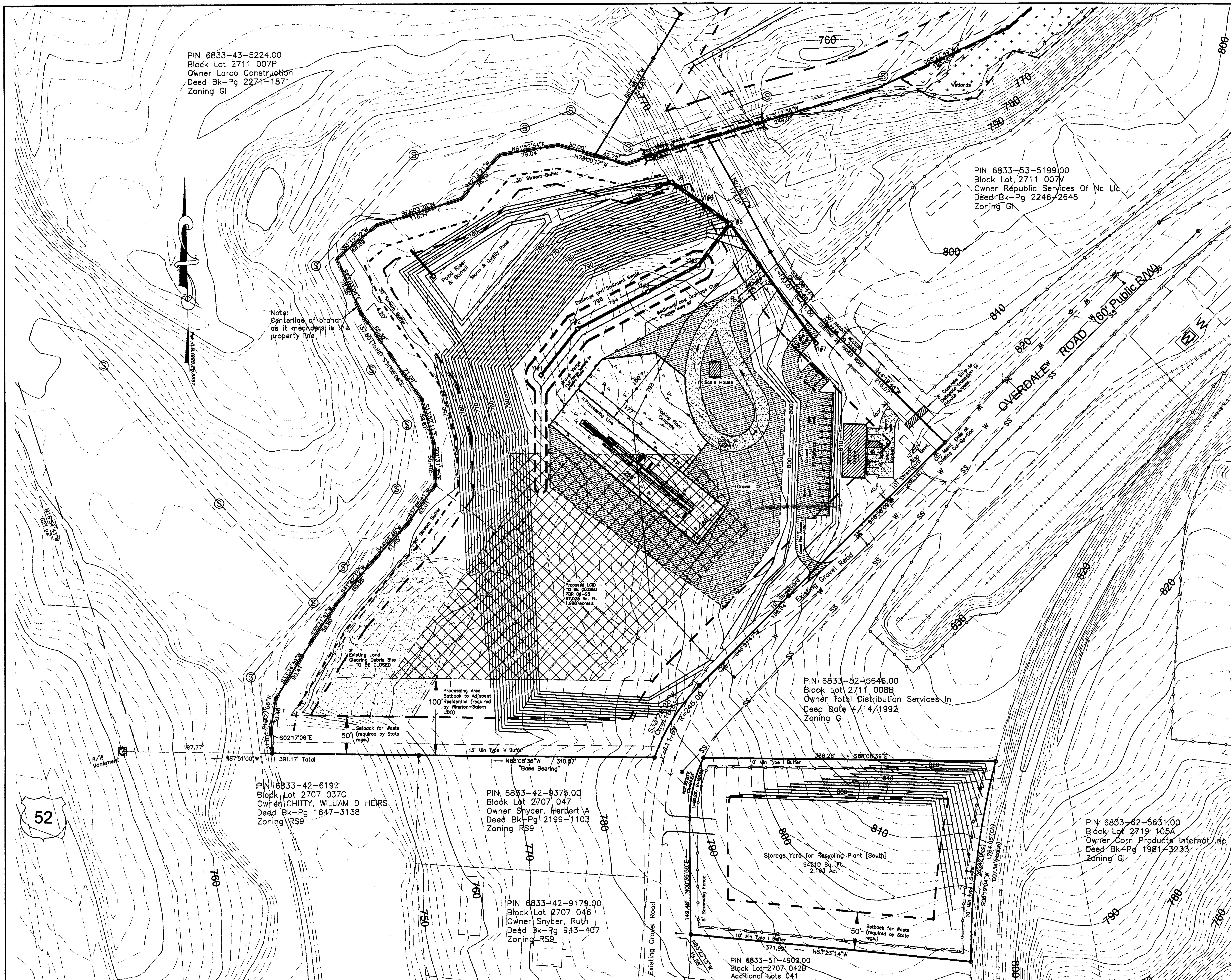
3.4 Dust Control

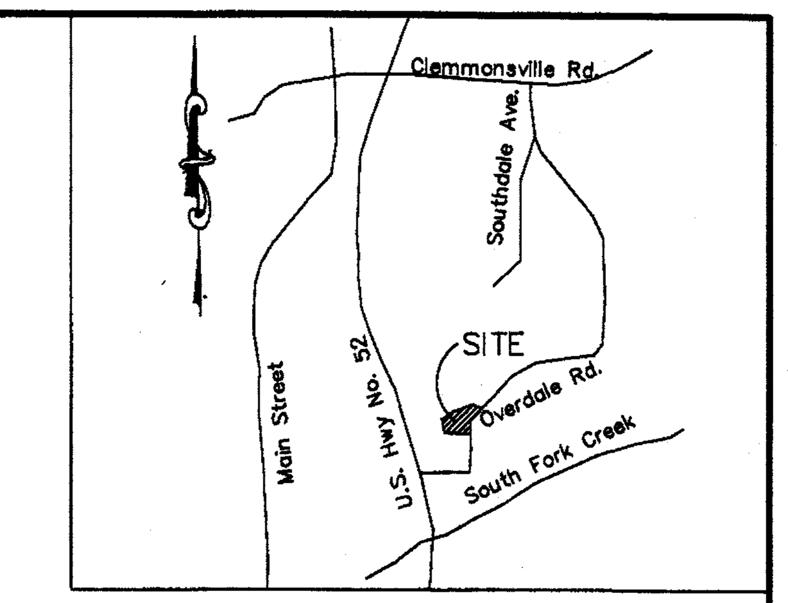
A letter from the Forsyth County Environmental Affairs Department dated November 19, 2008 indicates that an air quality permit is not required for the facility as planned. A copy of the letter is included in Appendix A.

Dust related to debris hauler traffic on the access roads will be minimized by using a water truck or a sprinkler system to limit dust on the gravel portion of the road, if necessary. Fugitive dust emissions are prohibited.

Contractors on-site to process concrete, brick, block, and sheetrock are required to comply with all applicable air quality requirements including 40 CFR Part 63, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants.

FIGURES





Location Map N.T.S.

The Purpose of this Submittal is for Inspections Site Plan review.

ZONING

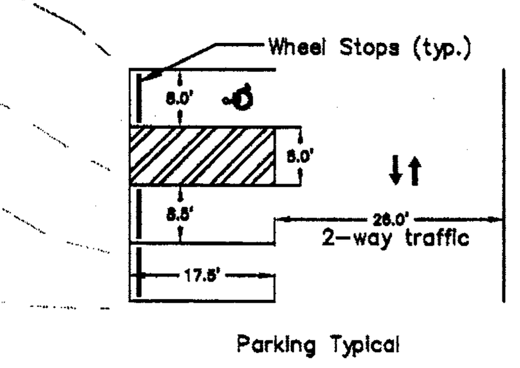
Existing Zoning: GI
Proposed Zoning: GI
Type of Review Requested: Inspections
Jurisdiction: City Of Winston-Salem

SITE SIZE AND COVERAGES

Total Acreage: 10.227 ± Acres. 445,487 sq ft.
Site Coverages:
Building to Land 0.5 %
Pavement to Land: 20.8 %
Open Space: 78.7 %
(Total = 100%)
Building Sq. Footage (Max.): 3000 Sq. Ft.
Building Height: 32 Ft.
Public Streets: N/A (approx.)

INFRASTRUCTURE

Water: X Public ___ Private
Sewer: X Public ___ Private
Streets: ___ Public X Private



OFF-STREET PARKING

Proposed Uses: Recycling Plant
Parking Calc.: 1 Spaces/ emp + 2 spaces
Required Parking: 29 spaces (5 Office + 22 Prod. Emps.)
Parking Provided: 29 Spaces.

BUFFERYARDS (if applicable)

Adjoining Zoning: GI and RS9
Type Required: Type IV
Width Provided: 15' Min.
Fence Option: ___ Yes X No

NOTES:
1. This map is a compilation of information from deeds, county tax information, structures and topographic information furnished by the Forsyth County GIS.
2. Owner to obtain driveway permit prior to construction.

NOT AN ACTUAL SURVEY

Site	Cut	Fill	Net
Main Site	6682 Cu. Yd.	126577 Cu. Yd.	119895 Cu. Yd.<Fill>
Storage Site [South]	14762 Cu. Yd.	0 Cu. Yd.	14762 Cu. Yd.<Cut>
Storage Site [North]	75870 Cu. Yd.	0 Cu. Yd.	75870 Cu. Yd.<Cut>
			29263 Cu. Yd.<Fill>

REVISIONS:
10-31-08 Per Notes
4-28-09 Added State req. setback

NORTH CAROLINA PROFESSIONAL SEAL 4896 ENGINEER JOHN EDWARD BEESON
4-29-09

Preliminary Site Plan
Overdale Recycling Plant

ABBEY GREEN INC.
4400 Silas Creek Pkwy, Suite 301
Winston-Salem, NC 27104
(336) 784-1890
bryanlj@myway.com

Scale: 1" = 60'

FIELD WORK BY: Others		CHECKED BY: JEB
Block / Lot: 2711 007W, 2711 007T, 2707 042A, 2711 007U	PIN: 6833-52-1826.00, 6833-42-9505.00, 6833-52-3269.00, 6833-53-3585.00	Deed Book/Page: DB 2175 PG 3070, DB 2576 PG 2117, DB 2267 PG 2420, DB 2576 PG 2117
TAX MAP: 630830	CITY: Winston-Salem	COUNTY: Forsyth
STATE: North Carolina	DATE: 08-19-2008	SHEET NUMBER: 1 of 2
JOB NUMBER: 08100.051	DRAWN BY: ATC	

BEESON ENGINEERING INC.
ENGINEERS SURVEYORS PLANNERS
503 HIGH STREET
WINSTON-SALEM, NC 27101
TELEPHONE: (336) 748-0071
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www.beesonengineering.com

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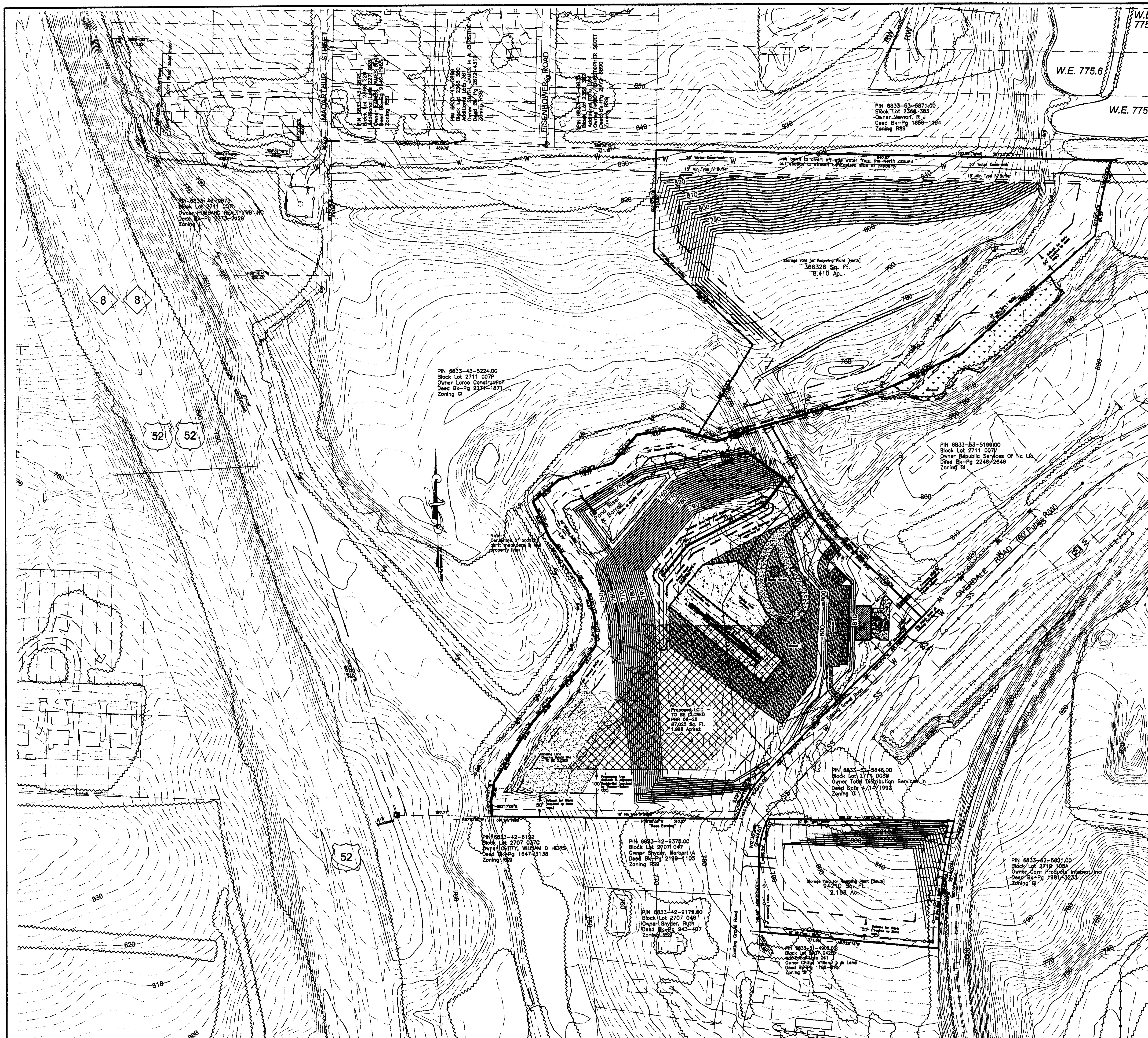

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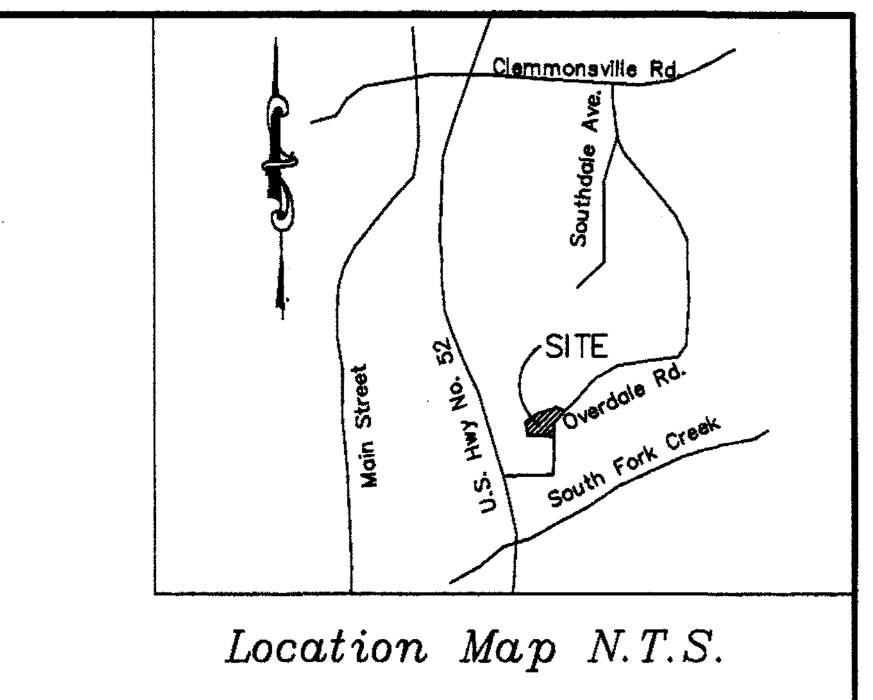
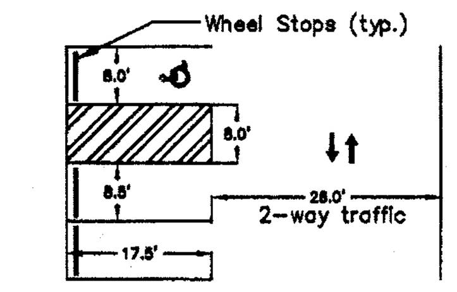
Storage Site [North]	75870 Cu. Yd.	0 Cu. Yd.	75870 Cu. Yd.<Cut>
			29263 Cu. Yd.<Fill>



Location Map N.T.S.

The Purpose of this Submittal is for Inspections Site Plan review.



Parking Typical

ZONING

Existing Zoning: GI
Proposed Zoning: GI
Type of Review Requested: Inspections
Jurisdiction: City Of Winston-Salem

SITE SIZE AND COVERAGES

Total Acreage: 10.227 ± Acres.
445,487 sq ft.
Site Coverages:
Building to Land 0.5 %
Pavement to Land: 20.8 %
Open Space: 78.7 %
(Total = 100%)
Building Sq. Footage (Max.): 3000 Sq. Ft.
Building Height: 32 Ft.
Public Streets: N/A (approx.)

INFRASTRUCTURE

Water: X Public ____ Private
Sewer: X Public ____ Private
Streets: ____ Public X Private

OFF-STREET PARKING

Proposed Uses: Recycling Plant
Parking Calc.: 1 Spaces/emp + 2 spaces
Required Parking: 29 Spaces.
Parking Provided: 29 Spaces.

BUFFERYARDS (if applicable)

Adjoining Zoning: GI and RS9
Type Required: Type IV
Width Provided: 15' Min.
Fence Option: ____ Yes X No

NOTES:
1. This map is a compilation of information from deeds, county tax information, structures and topographic information furnished by the Forsyth County GIS.

NOT AN ACTUAL SURVEY

Preliminary Site Plan
Overdale Recycling Plant

ABBEY GREEN INC.
4400 Silas Creek Pkwy, Suite 301
Winston-Salem, NC 27104
(336) 784-1890
bryanlj@myway.com

Scale: 1" = 100'
100 50 0 50 100 200

FIELD WORK BY		CHECKED BY:
Others		JEB
Block / Lot 2711 007W 2711 007T 2707 042A 2711 007U	PIN: 6833-52-1826.00 6833-42-9506.00 6833-52-3269.00 6833-53-3585.00	Deed Book/Page DB 2175 PG 3070 DB 2576 PG 2117 DB 2267 PG 2420 DB 2576 PG 2117

TAX MAP:	CITY:	COUNTY:
630830	Winston-Salem	Forsyth
STATE: North Carolina	DATE: 08-19-2008	SHEET NUMBER:
JOB NUMBER: 08100.051	DRAWN BY: ATC	2 of 2

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 4880 JOHN EDWARD BEESON

4-29-09

BEESON ENGINEERING INC.
ENGINEERS SURVEYORS PLANNERS
503 HIGH STREET
WINSTON-SALEM, NC 27101
TELEPHONE: (336) 748-0071
FAX: (336) 748-0470
www.beesonengineering.com

REVISIONS:

10-31-08 Per Notes
4-28-09 Added State req. setback

\\Server\storage\NewData\AutoCAD\Land Projects R2\2008\Misc\08100051\dwg\08100.051 SP.dwg, 4/29/2009 2:44:04 PM

APPENDIX A

Forsyth County
Environmental Affairs Department

November 19, 2008

Jim Bryan
Abbey Green, Inc.
4400 Silas Creek Parkway, Suite 301
Winston-Salem, NC 27104

SUBJECT: Air Quality Permit Applicability Determination

Dear Mr. Bryan:

This letter is in response to your November 10, 2008 request for a permit applicability determination for the installation of a C&D Waste Recycling plant to be located at 5030 Overdale Road. Based on the information provided in your request, the Department has determined that your facility qualifies for exemption from permit requirements under Rule 3Q .0102(c)(1)(L)(vii) of the Forsyth County Air Quality Control Ordinance and Technical Code (FCAQTC); "*...sources for which there are no applicable requirements.*"

In your request, you stated that concrete, brick and block will crushed and screened, and sheetrock will be shredded onsite by a contractor. Please be aware that contractors are required to comply with all applicable air quality requirements including *40 CFR Part 63, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants* as applicable.

This exemption from permitting requirements is based upon the information provided with your request. If the information provided with your request changes or is determined to be incorrect at a later date you may be required to apply for an air quality permit before constructing or operating. Rule 3Q .0102(d) states that because an activity is exempted from being required to have a permit does not mean that the activity is exempted from any applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement.

If you have any questions concerning this matter, please contact me at (336) 703-2430 or by e-mail (lloydpb@forsyth.cc).

Sincerely,

Peter B. Lloyd, Ph.D., P.E., Program Manager
Compliance Assistance & Permitting

c: file

537 North Spruce Street • Winston-Salem, NC 27101-1362 • Phone 336-703-2440 • Fax 336-703-2456

APPENDIX B

North Carolina Department of Environment and Natural Resources
Division of Water Quality

Beverly Eaves Perdue
Governor

Coleen H. Sullins
Director

Dee Freeman
Secretary

January 29, 2010

Mr. Jim Bryan, Secretary
Abbey Green, Inc.
P.O. Box 12339
Winston-Salem, NC 27117

Subject: General Permit No. NCG130000
Abbey Green, Inc.
COC NCG130060
Forsyth County

Dear Mr. Bryan:

In accordance with your application for a discharge permit received on January 8, 2010, we are forwarding herewith the subject certificate of coverage to discharge under the subject state – NPDES general permit. This permit is issued pursuant to the requirements of North Carolina General Statute 143-215.1 and the Memorandum of Agreement between North Carolina and the US Environmental Protection Agency dated October 15, 2007 (or as subsequently amended).

Please take notice that this certificate of coverage is not transferable except after notice to the Division of Water Quality. The Division of Water Quality may require modification or revocation and reissuance of the certificate of coverage.

This permit does not affect the legal requirements to obtain other permits which may be required by the Division of Water Quality or permits required by the Division of Land Resources, Coastal Area Management Act or any other federal or local governmental permit that may be required.

If you have any questions concerning this permit, please contact Jennifer Jones at telephone number (919) 807-6379

Sincerely,

for Coleen H. Sullins

cc: Winston Salem Regional Office, Steve Tedder
Central Files
Stormwater Permitting Unit Files

Wetlands and Stormwater Branch
1617 Mail Service Center, Raleigh, North Carolina 27699-1617
Location: 512 N. Salisbury St. Raleigh, North Carolina 27604
Phone: 919-807-6300 \ FAX: 919-807-6494 \ Customer Service: 1-877-623-6748
Internet: www.ncwaterquality.org

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WATER QUALITY

GENERAL PERMIT NO. NCG130000
CERTIFICATE OF COVERAGE No. NCG130060

STORMWATER DISCHARGES

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of North Carolina General Statute 143-215.1, other lawful standards and regulations promulgated and adopted by the North Carolina Environmental Management Commission, and the Federal Water Pollution Control Act, as amended,

Abbey Green, Inc.

is hereby authorized to discharge stormwater from a facility located at:

Abbey Green, Inc.
5030 Overdale Road
Winston-Salem
Forsyth County

to receiving waters designated as a UT to South Fork Muddy Creek, a class C water in the Yadkin River Basin, in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, III, IV, V, and VI of General Permit No. NCG130000 as attached.

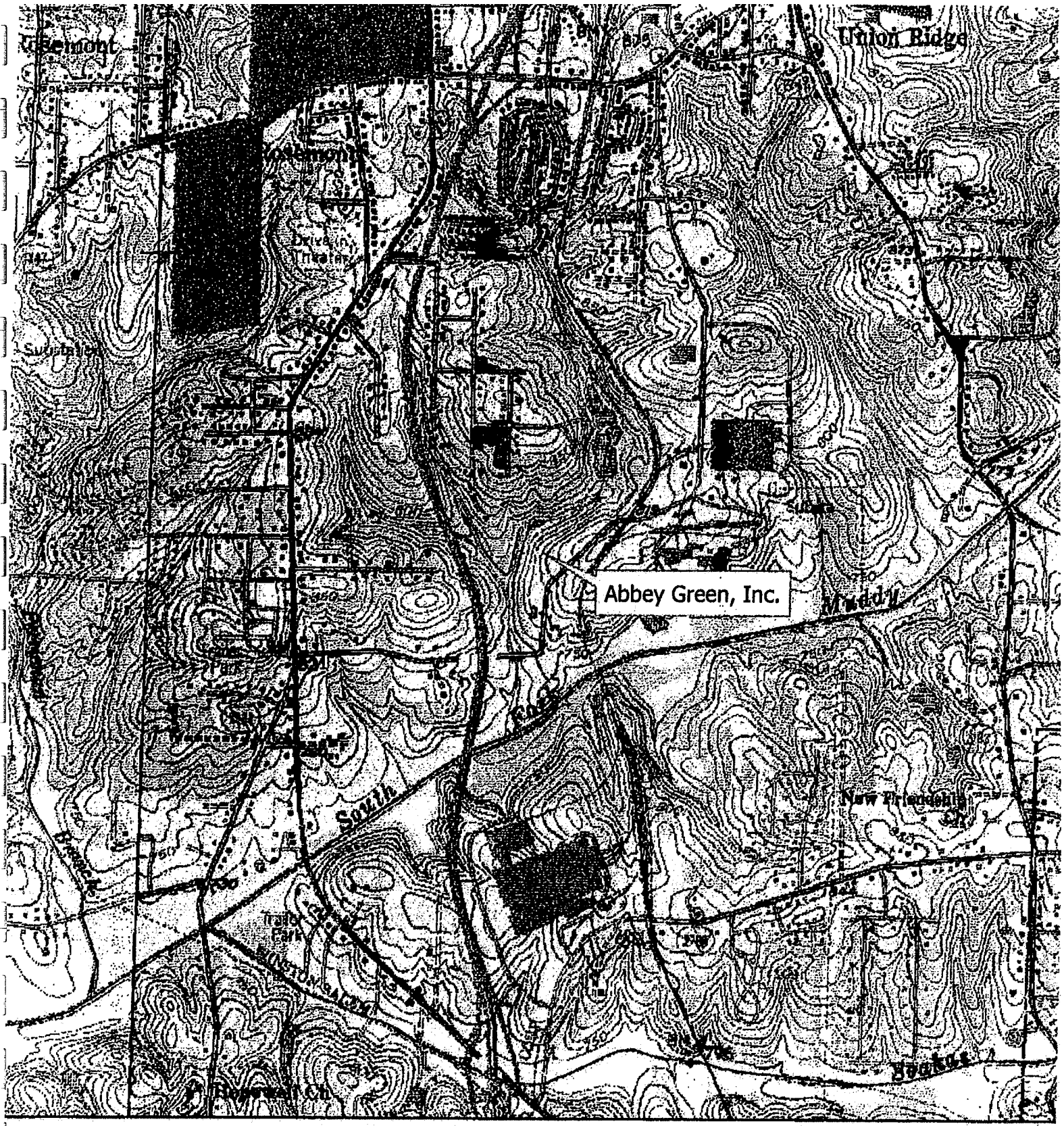
This certificate of coverage shall become effective January 29, 2010.

This Certificate of Coverage shall remain in effect for the duration of the General Permit.

Signed this day January 29, 2010.

Ken Pickle

for Coleen H. Sullins., Director
Division of Water Quality
By the Authority of the Environmental Management Commission



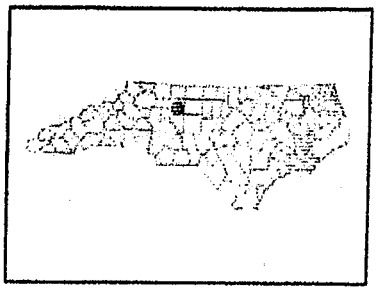
NCG130060

N
W E
S

Map Scale 1:18,521

Abbey Green, Inc.
Winston-Salem, NC

Latitude: 36° 01' 57" N
Longitude: 80° 14' 02" W
County: Forsyth
Receiving Stream: South Fork Muddy Creek
Stream Class: C
Sub-basin: 03-07-04 (Yadkin River Basin)



Facility Location

STATE OF NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WATER QUALITY

GENERAL PERMIT NO. NCG130000

TO DISCHARGE STORMWATER UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of North Carolina General Statute 143-215.1, other lawful standards and regulations promulgated and adopted by the North Carolina Environmental Management Commission and the Federal Water Pollution Control Act, as amended, this permit is hereby issued to all owners or operators, hereafter permittees, which are covered by this permit as evidenced by receipt of a Certificate of Coverage by the Environmental Management Commission to allow the discharge of stormwater to the surface waters of North Carolina or separate storm sewer systems conveying stormwater to surface waters in accordance with the terms and conditions set forth herein.

Coverage under this general permit is applicable to all owners or operators of stormwater point source discharges associated with activities classified as establishments primarily engaged in: the wholesale trade of non-metal waste and scrap (hereafter referred to as the non-metal waste recycling industry, a portion of standard industrial classification (SIC) 5093); and like activities deemed by DWQ to be similar in process and/or the exposure of raw materials, products, by-products, or waste materials.

The following activities are specifically excluded from coverage under this General Permit: the wholesale trade of metal waste and scrap, iron and steel scrap, and nonferrous metal scrap; waste oil recycling; and automobile wrecking for scrap.

The General Permit shall become effective on June 1, 2008.

The General Permit shall expire at midnight on May 31, 2013.

Signed this day May 9, 2008.

for

Coleen H. Sullins, Director
Division of Water Quality
By the Authority of the Environmental Management Commission

TABLE OF CONTENTS

PART I INTRODUCTION

SECTION A: GENERAL PERMIT COVERAGE

All persons desiring to be covered by this General Permit must register with the Division of Water Quality by the filing of a Notice of Intent (NOI) and applicable fees. The NOI shall be submitted and a certificate of coverage issued prior to any discharge of stormwater associated with industrial activity that has a point source discharge to the surface waters of the state.

Any owner or operator not wishing to be covered or limited by this General Permit may make application for an individual NPDES permit in accordance with NPDES procedures in 15A NCAC 2H .0100, stating the reasons supporting the request. Any application for an individual permit should be made at least 180 days prior to commencement of discharge.

This General Permit does not cover activities or discharges covered by an individual NPDES permit until the individual permit has expired or has been revoked. Any person conducting an activity covered by an individual permit but which could be covered by this General Permit may request that the individual permit be revoked and coverage under this General Permit be provided.

If industrial materials and activities are not exposed to precipitation or runoff as described in 40 CFR §122.26(g), the facility may qualify for a No Exposure Exclusion from NPDES stormwater discharge permit requirements. Any owner or operator wishing to obtain a No Exposure Certification must submit a No Exposure Certification NOI form to the Division, must receive approval by the Division, must maintain no exposure conditions unless authorized to discharge under a valid NPDES stormwater permit, and must reapply for the No Exposure Exclusion once every five (5) years.

Facilities submitting NOIs for coverage under this permit, and facilities submitting renewal forms for continued coverage under this permit, prior to establishment or approval of a Total Maximum Daily Load (TMDL) for pollutant(s) for stormwater discharges (i.e. wet weather flows), may be covered under this permit during its term. For such facilities, continued coverage under the reissuance of this permit is subject to the facility demonstrating that it does not have a reasonable potential to violate applicable water quality standards for such pollutants due to the stormwater discharge(s). For facilities that do have a reasonable potential for violation of applicable water quality standards due to the stormwater discharge(s), the facility shall apply for an individual permit 180 days prior to the expiration of this general permit. Once the individual permit is issued and becomes effective the facility will no longer have coverage under the general permit. Impaired waters scheduled for TMDL development are on North Carolina's 303(d) List and can be found here: **http://h2o.enr.state.nc.us/tmdl/General_303d.htm#Downloads**.
A list of approved TMDLs for the state of North Carolina can be found here:
http://h2o.enr.state.nc.us/tmdl/General_TMDLs.htm.

During the period beginning on the effective date of the permit and lasting until expiration, the Permittee is authorized to discharge stormwater associated with industrial activity. Such discharges shall be controlled, limited, and monitored as specified in this permit.

SECTION B: PERMITTED ACTIVITIES

Until this permit expires or is modified or revoked, the permittee is authorized to discharge stormwater to the surface waters of North Carolina or separate storm sewer system which has been adequately treated and managed in accordance with the terms and conditions of this General Permit. All discharges shall be in accordance with the conditions of this permit.

Any other point source discharge to surface waters of the state is prohibited unless it is an allowable non-stormwater discharge or is covered by another permit, authorization or approval. The stormwater discharges allowed by this General Permit shall not cause or contribute to violations of Water Quality Standards.

This permit does not relieve the permittee from responsibility for compliance with any other applicable federal, state, or local law, rule, standard, ordinance, order, judgment, or decree.

PART II MONITORING, CONTROLS, AND LIMITATIONS FOR PERMITTED DISCHARGES

SECTION A: STORMWATER POLLUTION PREVENTION PLAN

The Permittee shall develop a Stormwater Pollution Prevention Plan, herein after referred to as the Plan. This Plan shall be considered public information in accordance with Part III, Standard Conditions, Section E, Paragraph 3 of this general permit. The Plan shall include, at a minimum, the following items:

1. Site Plan. The site plan shall provide a description of the physical facility and the potential pollutant sources which may be expected to contribute to contamination of stormwater discharges. The site plan shall contain the following:

   (a) A general location map (USGS quadrangle map or appropriately drafted equivalent map), showing the facility's location in relation to transportation routes and surface waters, the name of the receiving water(s) to which the stormwater outfall(s) discharges, or if the discharge is to a municipal separate storm sewer system, the name of the municipality and the ultimate receiving waters, and accurate latitude and longitude of the point(s) of discharge. The general location map (or alternatively the site map) should identify whether each receiving water is **impaired** (on the state's 303(d) list of impaired waters) or is located in a **watershed for which a TMDL has been established,** and what the parameter(s) of concern are.
   North Carolina's 303(d) List can be found here:
   http://h2o.enr.state.nc.us/tmdl/General_303d.htm#Downloads
   North Carolina TMDL documents can be found here:
   http://h2o.enr.state.nc.us/tmdl/TMDL_list.htm#Final_TMDLs.

   (b) A narrative description of storage practices, loading and unloading activities, outdoor process areas, dust or particulate generating or control processes, and waste disposal practices. A narrative description of the potential pollutants which could be expected to be present in the stormwater discharge from each outfall.

   (c) A site map drawn to scale (including a distance legend) showing: the site property boundary, the stormwater discharge points, all on-site and adjacent surface waters and wetlands, industrial activity areas (including storage of materials, disposal areas, process areas, loading and unloading areas, and haul roads), site topography, all drainage features and structures, direction of flow, drainage areas for each outfall, industrial activities occurring in each drainage area, buildings, existing and proposed BMPs, and impervious surfaces. The site map must indicate the percentage of each drainage area that is impervious.

   (d) A list of significant spills or leaks of pollutants that have occurred at the facility during the three (3) previous years and any corrective actions taken to mitigate spill impacts.

(e) Certification that the stormwater outfalls have been evaluated for the presence of non-stormwater discharges. The certification statement will be signed in accordance with the requirements found in Part III, Standard Conditions, Section B, Paragraph 5. The permittee shall re-certify annually that the stormwater outfalls have been evaluated for the presence of non-stormwater discharges.

2. Stormwater Management Plan. The stormwater management plan shall contain a narrative description of the materials management practices employed which control or minimize the exposure of significant materials to stormwater, including structural and nonstructural measures. The stormwater management plan, at a minimum, shall incorporate the following:

(a) Feasibility Study. A review of the technical and economic feasibility of changing the methods of operations and/or storage practices to eliminate or reduce exposure of materials and processes to stormwater. Wherever practical, the permittee shall prevent exposure of all storage areas, material handling operations, and manufacturing or fueling operations by permanent or semi-permanent covers. In areas where elimination of exposure is not practical, the stormwater management plan shall document the feasibility of diverting the stormwater runoff away from areas of potential contamination.

(b) Secondary Containment Requirements and Records. Secondary containment is required for: bulk storage of liquid materials; storage in any amount of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) water priority chemicals; and storage in any amount of hazardous substances, in order to prevent leaks and spills from contaminating stormwater runoff. A table or summary of all such tanks and stored materials and their associated secondary containment areas shall be maintained, and shall record the volume capacity of each tank and containment area. If the secondary containment devices are connected directly to stormwater conveyance systems, the connection shall be controlled by manually activated valves or other similar devices (which shall be secured closed with a locking mechanism), and any stormwater that accumulates in the containment area shall be at a minimum visually observed for color, foam, outfall staining, visible sheens and dry weather flow, prior to release of the accumulated stormwater. Accumulated stormwater shall be released if found to be uncontaminated by the material stored within the containment area. Records documenting the individual making the observation, the description of the accumulated stormwater, and the date and time of the release shall be kept for a period of five years.

(c) BMP Summary. A narrative description shall be provided of Best Management Practices (BMPs) to be considered such as, but not limited to, diversion structures, secondary containment structures, oil and grease separation, debris control, vegetative filter strips, infiltration and stormwater detention or retention, where necessary. The need for structural BMPs shall be based on the assessment of potential of sources to contribute significant quantities of pollutants to stormwater discharges and data collected through monitoring of stormwater discharges.

3. Spill Prevention and Response Plan. The Spill Prevention and Response Plan (SPRP) shall incorporate an assessment of potential pollutant sources based on a materials inventory of the facility. Facility personnel (or team) responsible for implementing the SPRP shall be identified. A responsible person shall be on-site at all times during facility operations that have the potential to contaminate stormwater runoff through spills or exposure of materials associated with the facility operations. The SPRP must be site stormwater specific. Therefore, a SPCC plan may be a component of the SPRP, but may not be sufficient to completely address the stormwater aspects of the SPRP. The common elements of the SPCC with the SPRP may be incorporated by reference into the SPRP.

4. Preventative Maintenance and Good Housekeeping Program. A preventative maintenance program shall be developed. The program shall document schedules of inspections and maintenance activities of stormwater control systems, plant equipment and systems. Inspection of material handling areas and regular cleaning schedules of these areas shall be incorporated into the program. The program shall specifically identify industrial areas that have the potential for soil erosion, and must specifically note the preventative BMP or maintenance activity implemented in the areas, and must include regular inspections of the areas.

5. Employee Training. Training schedules shall be developed and training provided at a minimum on an annual basis on proper spill response and cleanup procedures and preventative maintenance activities for all personnel involved in any of the facility's operations that have the potential to contaminate stormwater runoff. Facility personnel (or team) responsible for implementing the training shall be identified.

6. Responsible Party. The Stormwater Pollution Prevention Plan shall identify a specific position(s) responsible for the overall coordination, development, implementation, and revision to the Plan. Responsibilities for all components of the Plan shall be documented and position assignments provided.

7. Plan Amendment. The permittee shall amend the Plan whenever there is a change in design, construction, operation, or maintenance which has a significant effect on the potential for the discharge of pollutants to surface waters. The Stormwater Pollution Prevention Plan shall be reviewed and updated on an annual basis. The annual update shall include an updated list of significant spills or leaks of pollutants for the previous three years, or the notation that no spills have occurred. The annual update shall include re-certification that the stormwater outfalls have been evaluated for the presence of non-stormwater discharges.

   The Director may notify the permittee when the Plan does not meet one or more of the minimum requirements of the permit. Within 30 days of such notice, the permittee shall submit a time schedule to the Director for modifying the Plan to meet minimum requirements. The permittee shall provide certification in writing (in accordance with Part III, Standard Conditions, Section B, Paragraph 5) to the Director that the changes have been made.

8. Facility Inspection Program. Inspections of the facility and all stormwater systems shall occur at a minimum on a semi-annual schedule, once during the first half of the year

(January to June), and once during the second half (July to December), with at least 60 days separating inspection dates (unless performed more frequently). The inspection and any subsequent maintenance activities performed shall be documented, recording date and time of inspection, individual(s) making the inspection and a narrative description of the facility's stormwater control systems, plant equipment and systems. Records of these inspections shall be incorporated into the Stormwater Pollution Prevention Plan. These facility inspections are different from, and in addition to, the stormwater discharge characteristic monitoring required in Part II of this permit.

9. Implementation. The permittee shall implement the Plan. Implementation of the Plan shall include documentation of all monitoring, measurements, inspections, maintenance activities, and training provided to employees, including the log of the sampling data and of actions taken to implement BMPs associated with the industrial activities, including vehicle maintenance activities. Such documentation shall be kept on-site for a period of five years and made available to the Director or the Director's authorized representative immediately upon request.

SECTION B: QUALITATIVE MONITORING REQUIREMENTS

Qualitative monitoring requires a visual inspection of each stormwater outfall regardless of representative outfall status and shall be performed as specified below in **Table 1**. No analytical tests are required. Qualitative monitoring of stormwater outfalls must be performed during a representative storm event.

A representative storm event is a storm event that measures greater than 0.1 inches of rainfall and that is preceded by at least 72 hours in which no storm event measuring greater than 0.1 inches has occurred. A single storm event may contain up to 10 consecutive hours of no precipitation. For example, if it rains for 2 hours without producing any collectable discharge, and then stops, a sample may be collected if a rain producing a discharge begins again within the next 10 hours.

Table 1. Qualitative Monitoring Requirements

Discharge Characteristics	Frequency	Monitoring Location[1]
Color	Semi-Annual	SDO
Odor	Semi-Annual	SDO
Clarity	Semi-Annual	SDO
Floating Solids	Semi-Annual	SDO
Suspended Solids	Semi-Annual	SDO
Foam	Semi-Annual	SDO
Oil Sheen	Semi-Annual	SDO
Erosion or deposition at the outfall	Semi-Annual	SDO
Other obvious indicators of stormwater pollution	Semi-Annual	SDO

Footnotes:

1 Monitoring Location: Qualitative monitoring shall be performed at each stormwater discharge outfall (SDO) regardless of representative outfall status.

If the permittee's qualitative monitoring indicates either that existing stormwater BMPs are ineffective, or that significant stormwater contamination is present, the permittee shall investigate potential causes, evaluate the feasibility of corrective actions, and implement those corrective actions appropriate. A written record of the permittee's investigation, evaluation, and response actions shall be kept in the Stormwater Pollution Prevention Plan.

Qualitative monitoring is for the purposes of evaluating the effectiveness of the Stormwater Pollution Prevention Plan (SPPP), assessing new sources of stormwater pollution, and prompting the permittee's response to pollution. If the permittee repeatedly fails to respond effectively to correct problems identified by qualitative monitoring, or if the discharge causes or contributes to a water quality standard violation, DWQ may:

- require that the permittee revise, increase, or decrease the monitoring frequency for the remainder of the permit;
- rescind coverage under the General Permit, and require that the permittee apply for an individual stormwater discharge permit;
- require the permittee to install structural stormwater controls;
- require the permittee to implement other stormwater control measures; or
- require that the permittee implement site modifications to qualify for the No Exposure Exclusion.

Qualitative monitoring will be performed twice per year, in accordance with the schedule in **Table 2. A minimum of 60 days must separate Period 1 and Period 2 monitoring dates**, unless monthly sampling has been instituted under a Tier Two response for vehicle maintenance activity areas.

Table 2. Monitoring Schedule

Monitoring period[1,2]	Event Number	Start	End
Year1 – Period 1	1	July 1, 2008	December 31, 2008
Year 1– Period 2	2	January 1, 2009	June 30, 2009
Year 2 – Period 1	3	July 1, 2009	December 31, 2009
Year 2 – Period 2	4	January 1, 2010	June 30, 2010
Year 3 – Period 1	5	July 1, 2010	December 31, 2010
Year 3 – Period 2	6	January 1, 2011	June 30, 2011
Year 4 – Period 1	7	July 1, 2011	December 31, 2011
Year 4 – Period 2	8	January 1, 2012	June 30, 2012
Year 5 – Period 1	9	July 1, 2012	December 31, 2012
Year 5 – Period 2	10	January 1, 2013	May 31, 2013

Footnotes:

1 Maintain semi-annual monitoring during permit renewal process. If at the expiration of the general permit, the permittee has submitted an application for renewal of coverage before the submittal deadline, the

permittee will be considered for renewed coverage. The applicant must continue semi-annual monitoring until the renewed Certificate of Coverage is issued.

2 If analytical monitoring applies, but no discharge occurs during the monitoring period, the permittee must submit a monitoring report indicating "No Flow" within 30 days of the end of the six-month monitoring period.

SECTION C: ON-SITE VEHICLE MAINTENANCE MONITORING REQUIREMENTS

Facilities which have any vehicle maintenance activity occurring on-site which uses more than 55 gallons of new motor oil per month when averaged over the calendar year shall perform analytical monitoring as specified in **Table 3.** This monitoring shall be performed at all outfalls which discharge stormwater runoff from the vehicle maintenance areas, and in accordance with the schedule presented in **Table 2.** All analytical monitoring shall be performed during a representative storm event.

Table 3. Analytical Monitoring Requirements for On-Site Vehicle Maintenance

Discharge Characteristics	Units	Measurement Frequency[1]	Sample Type[2]	Sample Location[3]
pH	standard	semi-annual	Grab	SDO
Oil and Grease	mg/l	semi-annual	Grab	SDO
Total Suspended Solids	mg/l	semi-annual	Grab	SDO
Total Rainfall[4]	inches	semi-annual	Rain gauge	-
New Motor Oil Usage	gallons/month	semi-annual	Estimate	-

Footnotes:

1 Measurement Frequency: Twice per year during a representative storm event.

2 If the stormwater runoff is controlled by a stormwater detention pond a grab sample of the discharge from the pond shall be collected within the first 30 minutes of discharge from the pond.

3 Sample Location: Samples shall be collected at each stormwater discharge outfall (SDO) that discharges stormwater runoff from area(s) where vehicle maintenance activities occur.

4 For each sampled representative storm event the total precipitation must be recorded. An on-site or local rain gauge reading must be recorded.

In all cases, the permittee shall report the analytical results from the first sample with valid results within the monitoring period. The permittee shall compare those results to the benchmark values in **Table 4.** Exceedences of benchmark values require the permittee to increase monitoring, increase management actions, increase record keeping, and/or install stormwater Best Management Practices (BMPs) in a tiered program. See below the descriptions of Tier One and Tier Two.

Table 4. Benchmark Values for On-Site Vehicle Maintenance Activities

Discharge Characteristics	Cut-off Concentration
pH	Within range 6.0 - 9.0
Oil and Grease	30 mg/l
Total Suspended Solids	100 mg/l

Tier One
If: The first valid sampling results are above a benchmark value, or outside of the benchmark range, for any parameter at any outfall;
Then: The permittee shall: 1. Conduct a stormwater management inspection of the facility **within two weeks of receiving sampling results.** 2. Identify and evaluate possible causes of the benchmark value exceedence. 3. Identify potential and select the specific: source controls, operational controls, or physical improvements to reduce concentrations of the parameters of concern, or to bring concentrations to within the benchmark range. 4. Implement the selected actions **within two months of the inspection.** 5. Record each instance of a Tier One response in the Stormwater Pollution Prevention Plan. Include the date and value of the benchmark exceedence, the inspection date, the personnel conducting the inspection, the selected actions, and the date the selected actions were implemented.

Tier Two
If: During the term of this permit, the first valid sampling results from two consecutive monitoring periods are above the benchmark values, or outside of the benchmark range, for any specific parameter at a specific discharge outfall;
Then: The permittee shall: 1. Repeat all the required actions outlined above in Tier One. 2. Immediately institute monthly monitoring for all parameters at every outfall where a sampling result exceeded the benchmark value for two consecutive valid samples. Monthly (analytical and qualitative) monitoring shall continue until three consecutive sample results are below the benchmark values, or within the benchmark range. 3. If no discharge occurs during the sampling period, the permittee is required to submit a monthly monitoring report indicating "No Flow" to comply with reporting requirements. 4. Maintain a record of the Tier Two response in the Stormwater Pollution Prevention Plan.

During the term of this permit, if the valid sampling results required for the permit monitoring periods exceed the benchmark value, or are outside the benchmark range, for any specific parameter at any specific outfall on **more than four occasions,** the permittee shall notify the DWQ Regional Office Supervisor in writing **within 30 days of receipt** of the fourth analytical results. DWQ may:

- require that the permittee revise, increase, or decrease the monitoring frequency for the remainder of the permit;
- rescind coverage under the General Permit, and require that the permittee apply for an individual stormwater discharge permit;
- require the permittee to install structural stormwater controls;
- require the permittee to implement other stormwater control measures; or
- require that the permittee implement site modifications to qualify for the No Exposure Exclusion.

PART III STANDARD CONDITIONS FOR NPDES STORMWATER GENERAL PERMITS

SECTION A: COMPLIANCE AND LIABILITY

1. Compliance Schedule

The permittee shall comply with Limitations and Controls specified for stormwater discharges in accordance with the following schedule:

Existing facilities already operating, but applying for coverage under this general permit for the first time: The Stormwater Pollution Prevention Plan shall be developed and implemented within 12 months of the effective date of the initial Certificate of Coverage issued pursuant to this general permit and updated thereafter on an annual basis. Secondary containment, as specified in Part II, Section A, Paragraph 2(b) of this permit, shall be accomplished within 12 months of the effective date of the initial Certificate of Coverage.

New facilities applying for permit coverage for the first time and existing facilities previously permitted and applying for renewal under this general permit: All requirements, conditions, limitations, and controls contained in this permit become effective immediately upon issuance of the Certificate of Coverage. The Stormwater Pollution Prevention Plan shall be developed and implemented prior to the beginning of discharges from the operation of the industrial activity and be updated thereafter on an annual basis. Secondary containment, as specified in Part II, Section A, Paragraph 2(b) of this permit shall be accomplished prior to the beginning of discharges from the operation of the industrial activity.

2. Duty to Comply.

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

(a) The permittee shall comply with standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions , even if the permit has not yet been modified to incorporate the requirement.

b) The Clean Water Act provides that any person who violates a permit condition is subject to a civil penalty not to exceed $25,000 per day for each violation. Any person who negligently violates any permit condition is subject to criminal penalties of $2,500 to $25,000 per day of violation, or imprisonment for not more than 1 year, or both. Any person who knowingly violates permit conditions is subject to criminal penalties of $5,000 to $50,000 per day of violation, or imprisonment for not more than 3 years, or both. Also, any person who violates a permit condition may be assessed an

administrative penalty not to exceed $10,000 per violation with the maximum amount not to exceed $125,000. [Ref: Section 309 of the Federal Act 33 USC 1319 and 40 CFR 122.41(a).]

(c) Under state law, a daily civil penalty of not more than ten thousand dollars ($10,000) per violation may be assessed against any person who violates or fails to act in accordance with the terms, conditions, or requirements of a permit. [Ref: NC General Statutes 143-215.6A].

(d) Any person may be assessed an administrative penalty by the Director for violating section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act. Administrative penalties for Class I violations are not to exceed $10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed $25,000. Penalties for Class II violations are not to exceed $10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed $125,000.

3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this general permit which has a reasonable likelihood of adversely affecting human health or the environment.

4. Civil and Criminal Liability

Except as provided in Section C of this permit regarding bypassing of stormwater control facilities, nothing in this general permit shall be construed to relieve the permittee from any responsibilities, liabilities, or penalties for noncompliance pursuant to NCGS 143-215.3, 143-215.6A, 143-215.6B, 143-215.6C or Section 309 of the Federal Act, 33 USC 1319. Furthermore, the permittee is responsible for consequential damages, such as fish kills, even though the responsibility for effective compliance may be temporarily suspended.

5. Oil and Hazardous Substance Liability

Nothing in this general permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under NCGS 143-215.75 et seq. or Section 311 of the Federal Act, 33 USC 1321.

6. Property Rights

The issuance of this general permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal,state or local laws or regulations.

7. Severability

The provisions of this general permit are severable, and if any provision of this general permit, or the application of any provision of this general permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this general permit, shall not be affected thereby.

8. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the certificate of coverage issued pursuant to this general permit or to determine compliance with this general permit. The permittee shall also furnish to the Director upon request, copies of records required to be kept by this general permit.

9. Penalties for Tampering

The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this general permit shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than two years per violation, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more that $20,000 per day of violation, or by imprisonment of not more than 4 years, or both.

10. Penalties for Falsification of Reports

The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this general permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than two years per violation, or by both.

SECTION B: GENERAL CONDITIONS

1. General Permit Expiration

The permittee is not authorized to discharge after the expiration date. In order to receive automatic authorization to discharge beyond the expiration date, the permittee shall submit forms and fees as are required by the agency authorized to issue permits no later than 180 days prior to the expiration date. Any permittee that has not requested renewal at least 180 days prior to expiration, or any permittee that does not have a permit after the expiration and has not requested renewal at least 180 days prior to expiration, will be

subjected to enforcement procedures as provided in NCGS §143-2153.6 and 33 USC 1251 et. seq.

2. Transfers

The certificate of coverage issued pursuant to this general permit is not transferable to any person except after notice to and approval by the Director. The Director may require modification or revocation and reissuance of the certificate of coverage to change the name and incorporate such other requirements as may be necessary under the Clean Water Act. **Permittee is required to notify the Division in the event the permitted facility is sold or closed.**

3. When an Individual Permit May be Required

The Director may require any owner/operator authorized to discharge under a certificate of coverage issued pursuant to this general permit to apply for and obtain an individual permit or coverage under an alternative general permit. Any interested person may petition the Director to take action under this paragraph. Cases where an individual permit may be required include, but are not limited to, the following:

a. The discharger is a significant contributor of pollutants;

b. Conditions at the permitted site change, altering the constituents and/or characteristics of the discharge such that the discharge no longer qualifies for a general permit;

c. The discharge violates the terms or conditions of this general permit;

d. A change has occurred in the availability of demonstrated technology or practices for the control or abatement of pollutants applicable to the point source;

e. Effluent limitations are promulgated for the point sources covered by this general permit;

f. A water quality management plan containing requirements applicable to such point sources is approved after the issuance of this general permit.

g. The Director determines at his own discretion that an individual permit is required.

4. When an Individual Permit May be Requested

Any permittee operating under this general permit may request to be excluded from the coverage of this general permit by applying for an individual permit. When an individual permit is issued to an owner/operator the applicability of this general permit is automatically terminated on the effective date of the individual permit.

5. Signatory Requirements

All applications, reports, or information submitted to the Director shall be signed and certified.

a. All notices of intent to be covered under this general permit shall be signed as follows:

(l) In the case of a corporation: by a principal executive officer of at least the level of vice-president, or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the permit application form originates;

(2) In the case of a partnership or limited partnership: by a general partner;

(3) In the case of a sole proprietorship: by the proprietor;

(4) In the case of a municipal, state, or other public entity: by a principal executive officer, ranking elected official, or other duly authorized employee.

b. All reports required by the general permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(l) The authorization is made in writing by a person described above;

(2) The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or well field, superintendent, a position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

(3) The written authorization is submitted to the Director.

c. Any person signing a document under paragraphs a. or b. of this section shall make the following certification:

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false

information, including the possibility of fines and imprisonment for knowing violations."

6. General Permit Modification, Revocation and Reissuance, or Termination

The issuance of this general permit does not prohibit the Director from reopening and modifying the general permit, revoking and reissuing the general permit, or terminating the general permit as allowed by the laws, rules, and regulations contained in Title 40, Code of Federal Regulations, Parts 122 and 123; Title 15A of the North Carolina Administrative Code, Subchapter 2H .0100; and North Carolina General Statute 143-215.1 et. al.

After public notice and opportunity for a hearing, the general permit may be terminated for cause. The filing of a request for a general permit modification, revocation and reissuance, or termination does not stay any general permit condition. The certificate of coverage shall expire when the general permit is terminated.

7. Certificate of Coverage Actions

The certificate of coverage issued in accordance with this general permit may be modified, revoked and reissued, or terminated for cause. The notification of planned changes or anticipated noncompliance does not stay any general permit condition.

SECTION C: OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this general permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the general permit.

2. Need to Halt or Reduce not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the condition of this general permit.

3. Bypassing of Stormwater Control Facilities

Bypass is prohibited and the Director may take enforcement action against a permittee for bypass unless:

a. Bypass was unavoidable to prevent loss of life, personal injury or severe property damage; and

b. There were no feasible alternatives to the bypass, such as the use of auxiliary control facilities, retention of stormwater or maintenance during normal periods of equipment downtime or dry weather. This condition is not satisfied if adequate backup controls should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

c. The permittee submitted notices as required under Section E of this Part.

If the Director determines that it will meet the three conditions listed above, the Director may approve an anticipated bypass after considering its adverse effects.

SECTION D: MONITORING AND RECORDS

1. Representative Sampling

Samples collected and measurements taken, as required herein, shall be characteristic of the volume and nature of the permitted discharge. Analytical sampling shall be performed during a representative storm event. Samples shall be taken on a day and time that is characteristic of the discharge. All samples shall be taken before the discharge joins or is diluted by any other waste stream, body of water, or substance. Monitoring points as specified in this permit shall not be changed without notification to and approval of the Director.

2. Recording Results

For each measurement, sample, inspection or maintenance activity performed or collected pursuant to the requirements of this general permit, the permittee shall record the following information:

a. The date, exact place, and time of sampling, measurements, inspection or maintenance activity;

b. The individual(s) who performed the sampling, measurements, inspection or maintenance activity;

c. The date(s) analyses were performed;

d. The individual(s) who performed the analyses;

e. The analytical techniques or methods used; and

f. The results of such analyses.

3. Flow Measurements

Where required, appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges.

4. Test Procedures

Test procedures for the analysis of pollutants shall conform to the EMC regulations published pursuant to NCGS 143-215.63 et. seq, the Water and Air Quality Reporting Acts, and to regulations published pursuant to Section 304(g), 33 USC 1314, of the Federal Water Pollution Control Act, as Amended, and Regulation 40 CFR 136.

To meet the intent of the monitoring required by this general permit, all test procedures must produce minimum detection and reporting levels and all data generated must be reported down to the minimum detection or lower reporting level of the procedure.

5. Representative Outfall

If a facility has multiple discharge locations with substantially identical stormwater discharges that are required to be sampled, the permittee may petition the Director for representative outfall status. If it is established that the stormwater discharges are substantially identical and the permittee is granted representative outfall status, then sampling requirements may be performed at a reduced number of outfalls.

6. Records Retention

Qualitative monitoring shall be documented and records maintained at the facility along with the Stormwater Pollution Prevention Plan. Copies of analytical monitoring results shall also be maintained on-site. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, and copies of all reports required by this general permit for a period of at least 5 years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

7. Inspection and Entry

The permittee shall allow the Director, or an authorized representative (including an authorized contractor acting as a representative of the Director), or in the case of a facility which discharges through a municipal separate storm sewer system, an authorized representative of a municipal operator or the separate storm sewer system receiving the

discharge, upon the presentation of credentials and other documents as may be required by law, to;

a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this general permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this general permit;

c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this general permit; and

d. Sample or monitor at reasonable times, for the purposes of assuring general permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

SECTION E: REPORTING REQUIREMENTS

1. Discharge Monitoring Reports

Samples analyzed in accordance with the terms of this permit shall be submitted to the Division on Discharge Monitoring Report forms provided by the Director. Submittals shall be received by the Division no later than 30 days from the date the facility receives the sampling results from the laboratory.

When no discharge has occurred from the facility during the report period, the permittee is required to submit a discharge monitoring report, within 30 days of the end of the six-month sampling period, giving all required information and indicating "NO FLOW" as per NCAC T15A 02B .0506.

The permittee shall record the required qualitative monitoring observations on the SDO Qualitative Monitoring Report form provided by the Division, and shall retain the completed forms on site. Qualitative monitoring results should not be submitted to the Division, except upon DWQ's specific requirement to do so.

2. Submitting Reports

Duplicate signed copies of all reports required herein, shall be submitted to the following address:

Central Files
Division of Water Quality
1617 Mail Service Center
Raleigh, North Carolina 27699-1617

3. Availability of Reports

Except for data determined to be confidential under NCGS 143-215.3(a)(2) or Section 308 of the Federal Act, 33 USC 1318, all reports prepared in accordance with the terms shall be available for public inspection at the offices of the Division of Water Quality. As required by the Act, analytical data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in NCGS 143-215.6B or in Section 309 of the Federal Act.

4. Non-Stormwater Discharges

If the storm event monitored in accordance with this general permit coincides with a non-stormwater discharge, the permittee shall separately monitor all parameters as required under the non-stormwater discharge permit and provide this information with the stormwater discharge monitoring report.

5. Planned Changes

The permittee shall give notice to the Director as soon as possible of any planned changes at the permitted facility which could significantly alter the nature or quantity of pollutants discharged. This notification requirement includes pollutants which are not specifically listed in the general permit or subject to notification requirements under 40 CFR Part 122.42 (a).

6. Anticipated Noncompliance

The permittee shall give notice to the Director as soon as possible of any planned changes at the permitted facility which may result in noncompliance with the general permit requirements.

7. Bypass

a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass; including an evaluation of the anticipated quality and affect of the bypass.

b. Unanticipated bypass. The permittee shall submit notice within 24 hours of becoming aware of an unanticipated bypass.

8. Twenty-four Hour Reporting

The permittee shall report to the central office or the appropriate regional office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee became aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances.

The written submission shall contain a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time compliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

9. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under 24 hour reporting at the time monitoring reports are submitted.

10. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a Notice of Intent to be covered under this general permit or in any report to the Director, it shall promptly submit such facts or information.

PART IV LIMITATIONS REOPENER

This general permit shall be modified or alternatively, revoked and reissued, to comply with any applicable effluent guideline or water quality standard issued or approved under Sections 302(b) (2) (c), and (d), 304(b) (2) and 307(a) of the Clean Water Act, if the effluent guideline or water quality standard so issued or approved:

a. Contains different conditions or is otherwise more stringent than any effluent limitation in the general permit; or

b. Controls any pollutant not limited in the general permit.

The general permit as modified or reissued under this paragraph shall also contain any other requirements in the Act then applicable.

PART V ADMINISTERING AND COMPLIANCE MONITORING FEE REQUIREMENTS

The permittee must pay the administering and compliance monitoring fee within 30 (thirty) days after being billed by the Division. Failure to pay the fee in timely manner in accordance with 15A NCAC 2H .0105(b)(4) may cause this Division to initiate action to revoke the Certificate of Coverage.

PART VI DEFINITIONS

1. Act

   See Clean Water Act.

2. Arithmetic Mean

   The arithmetic mean of any set of values is the summation of the individual values divided by the number of individual values.

3. Allowable Non-Stormwater Discharges

   This permit regulates stormwater discharges. Non-stormwater discharges which shall be allowed in the stormwater conveyance system are:

   (a) All other discharges that are authorized by a non-stormwater NPDES permit.

(b) Uncontaminated groundwater, foundation drains, air-conditioner condensate without added chemicals, springs, discharges of uncontaminated potable water, waterline and fire hydrant flushings, water from footing drains, flows from riparian habitats and wetlands.

(c) Discharges resulting from fire-fighting or fire-fighting training.

4. Best Management Practices (BMPs)

Measures or practices used to reduce the amount of pollution entering surface waters. BMPs may take the form of a process, activity, or physical structure.

5. Bypass

A bypass is the known diversion of stormwater from any portion of a stormwater control facility including the collection system, which is not a designed or established operating mode for the facility.

6. Bulk Storage of Liquid Products

Liquid raw materials, manufactured products, waste materials or by-products with a single above ground storage container having a capacity of greater than 660 gallons or with multiple above ground storage containers located in close proximity to each other having a total combined storage capacity of greater than 1,320 gallons.

7. Certificate of Coverage

The Certificate of Coverage (COC) is the cover sheet which accompanies the general permit upon issuance and lists the facility name, location, receiving stream, river basin, effective date of coverage under the permit and is signed by the Director.

8. Clean Water Act

The Federal Water Pollution Control Act, also known as the Clean Water Act (CWA), as amended, 33 USC 1251, et. seq.

9. Division or DWQ

The Division of Water Quality, Department of Environment and Natural Resources.

10. Director

The Director of the Division of Water Quality, the permit issuing authority.

11. EMC

The North Carolina Environmental Management Commission.

12. Grab Sample

An individual samples collected instantaneously. Grab samples that will be directly analyzed or qualitatively monitored must be taken within the first 30 minutes of discharge.

13. Hazardous Substance

Any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act.

14. Landfill

A disposal facility or part of a disposal facility where waste is placed in or on land and which is not a land treatment facility, a surface impoundment, an injection well, a hazardous waste long-term storage facility or a surface storage facility.

15. Municipal Separate Storm Sewer System

A stormwater collection system within an incorporated area of local self-government such as a city or town.

16. No Exposure

A condition of no exposure means that all industrial materials and activities are protected by a storm resistant shelter or acceptable storage containers to prevent exposure to rain, snow, snowmelt, or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. DWQ may grant a No Exposure Exclusion from NPDES Stormwater Permitting requirements only if a facility complies with the terms and conditions described in 40 CFR §122.26(g)

17. Notice of Intent

The state application form which, when submitted to the Division, officially indicates the facility's notice of intent to seek coverage under a general permit.

18. Overburden

Any material of any nature, consolidated or unconsolidated, that overlies a mineral deposit, excluding topsoil or similar naturally-occurring surface materials that are not disturbed by mining operations.

19. Permittee

The owner or operator issued a certificate of coverage pursuant to this general permit.

20. Point Source Discharge of Stormwater

Any discernible, confined and discrete conveyance including, but not specifically limited to, any pipe, ditch, channel, tunnel, conduit, well, or discrete fissure from which stormwater is or may be discharged to waters of the state.

21. Representative Storm Event

A storm event that measures greater than 0.1 inches of rainfall and that is preceded by at least 72 hours in which no storm event measuring greater than 0.1 inches has occurred. A single storm event may contain up to 10 consecutive hours of no precipitation. For example, if it rains for 2 hours without producing any collectable discharge, and then stops, a sample may be collected if a rain producing a discharge begins again within the next 10 hours.

22. Representative Outfall Status

When it is established that the discharge of stormwater runoff from a single outfall is representative of the discharges at multiple outfalls, the DWQ may grant representative outfall status. Representative outfall status allows the permittee to perform analytical monitoring at a reduced number of outfalls.

23. Rinse Water Discharge

The discharge of rinse water from equipment cleaning areas associated with industrial activity. Rinse waters from vehicle and equipment cleaning areas are process wastewaters and do not include washwaters utilizing any type of detergent or cleaning agent.

24. Secondary Containment

Spill containment for the contents of the single largest tank within the containment structure plus sufficient freeboard to allow for the 25-year, 24-hour storm event.

25. Section 313 Water Priority Chemical

A chemical or chemical category which:

a. Is listed in 40 CFR 372.65 pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986, also titled the Emergency Planning and Community Right-to-Know Act of 1986;

b. Is present at or above threshold levels at a facility subject to SARA title III, Section 313 reporting requirements; and

c. That meet at least one of the following criteria:

(1) Is listed in appendix D of 40 CFR part 122 on either Table II (organic priority pollutants), Table III (certain metals, cyanides, and phenols) or Table IV (certain toxic pollutants and hazardous substances);

(2) Is listed as a hazardous substance pursuant to section 311(b)(2)(A) of the CWA at 40 CFR 116.4; or

(3) Is a pollutant for which EPA has published acute or chronic water quality criteria.

26. Severe Property Damage

Means substantial physical damage to property, damage to the control facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

27. Significant Materials

Includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under section 101(14) of CERCLA; any chemical the facility is required to report pursuant to section 313 of Title III of SARA; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with stormwater discharges.

28. Significant Spills

Includes, but is not limited to: releases of oil or hazardous substances in excess of reportable quantities under section 311 of the Clean Water Act (Ref: 40 CFR 110.10 and CFR 117.21) or section 102 of CERCLA (Ref: 40 CFR 302.4).

29. Stormwater Runoff

The flow of water which results from precipitation and which occurs immediately following rainfall or as a result of snowmelt.

30. Stormwater Associated with Industrial Activity

The discharge from any point source which is used for collecting and conveying stormwater and which is directly related to manufacturing, processing or raw material storage areas at an industrial site. Facilities considered to be engaged in "industrial activities" include those activities defined in 40 CFR 122.26(b)(14). The term does not include discharges from facilities or activities excluded from the NPDES program.

31. Stormwater Pollution Prevention Plan

A comprehensive site-specific plan which details measures and practices to reduce stormwater pollution and is based on an evaluation of the pollution potential of the site.

32. Ten Year Design Storm

The maximum 24-hour precipitation event expected to be equaled or exceeded on the average once in ten years. Design storm information can be found in the State of North Carolina Erosion and Sediment Control Planning and Design Manual.

33. Total Flow

The flow corresponding to the time period over which the entire storm event occurs. Total flow shall be either; (a) measured continuously, (b) calculated based on the amount of area draining to the outfall, the amount of built-upon (impervious) area, and the total amount of rainfall, or (c) estimated by the measurement of flow at 20-minute intervals during the rainfall event.

34. Total Maximum Daily Load (TMDL)

TMDLs are written plans for attaining and maintaining water quality standards, in all seasons, for a specific waterbody and pollutant. (A list of approved TMDLs for the state of North Carolina can be found at **http://h2o.enr.state.nc.us/tmdl/**)

35. Toxic Pollutant

Any pollutant listed as toxic under Section 307(a)(l) of the Clean Water Act.

36. Upset

Means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment or control facilities, inadequate treatment or control facilities, lack of preventive maintenance, or careless or improper operation.

37. Vehicle Maintenance Activity

Vehicle rehabilitation, mechanical repairs, painting, fueling, lubrication, vehicle cleaning operations, or airport deicing operations.

38. Visible Sedimentation

Solid particulate matter, both mineral and organic, that has been or is being transported by water, air, gravity, or ice from its site of origin which can be seen with the unaided eye.

39. 25-year, 24 hour storm event

The maximum 24-hour precipitation event expected to be equaled or exceeded, on the average, once in 25 years.

North Carolina Department of Environment and Natural Resources

Technical Bulletin for N.C. General Stormwater Permits NCG05, 07, 11, & 13

What activities are covered by these general permits?

NCG050000 allows stormwater discharges associated with activities classified as establishments primarily engaged in: Apparel and other finished products made from fabrics and similar materials [standard industrial classification (SIC) 23]; Printing, publishing, and allied industries [SIC 27]; Converted paper and paperboard products [SIC 267]; Paperboard containers and boxes [SIC 265]; Miscellaneous manufacturing industries [SIC 39]; Leather and leather products [SIC 31]; and Rubber and miscellaneous products [SIC 30]; and similar activities (see permit.) *Excluded:* Leather tanning and finishing [SIC 311] and Tires and inner tubes [SIC 301].

NCG070000 allows stormwater discharges associated with activities classified as establishments primarily engaged in: Stone, Clay, Glass, and Concrete Products [standard industrial classification (SIC) 32]; similar activities. *Excluded:* Ready-mixed concrete [SIC 3273] and Hydraulic Cement [SIC 3241].

NCG110000 allows stormwater discharges associated with activities classified as Treatment Works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage, with a design flow of 1.0 million gallons per day or more, or facilities which are required to have an approved pretreatment program under Title 40 CFR §403, including lands dedicated to the disposal of sewage sludge that is located within the confines of the facility.

NCG130000 allows stormwater discharges associated with activities classified as establishments primarily engaged in: wholesale trade of non-metal waste and scrap (hereafter referred to as the non-metal waste recycling industry, a portion of standard industrial classification (SIC) 5093); similar activities. *Excluded:* wholesale trade of metal waste and scrap, iron and steel scrap, and nonferrous metal scrap; waste oil recycling; and automobile wrecking for scrap.

What does this permit require me to do?

Key Permit Requirements

- Implement a Stormwater Pollution Prevention Plan (SPPP) (Part II, Section A).
- Provide secondary containment for all bulk storage of liquid materials. (Part II, Section A, 2.(b)).
- Perform and document semi-annual qualitative monitoring during a representative storm event. (Part II, Section B).
- Perform semi-annual analytical monitoring for vehicle maintenance area, if present, and submit the results on the monitoring report forms provided with the permit. (Part II, Section C).

What are BMPs, and why are they important?

The SPPP should include the use of Best Management Practices (BMPs) to control discharge of pollutants from a facility's stormwater outfalls. BMPs include a variety of things that the industrial facility can do to minimize the potential for pollutants to get into the stormwater draining from a facility. There are different types of BMPs:

Non-Structural BMP's

Non-structural (practices or activities) BMPs include:

* Eliminate exposure of materials and equipment wherever possible by moving materials and equipment to indoor locations.
* Practice good housekeeping on-site. Keep materials handled and stored at the facility in an orderly fashion.
* Exchange hazardous materials for non-hazardous ones wherever possible.
* Establish routine leak and maintenance checks to minimize the chance of spills before they occur.

What does this permit require me to do? (continued)

When spills occur, clean them up immediately.
* Establish bulk storage tank protocols that minimize the risk of spills during loading and unloading procedures.
* Store used pallets and process waste dumpsters inside or under a roof where water cannot flow on or around them.

Structural BMPs

Structural (equipment or devices) BMPs include:

* Build containment dikes around the loading areas of bulk liquid storage containers.
* If practical, change painting operations from liquid systems to powdered systems that do not generate solvent wastes.
* Build roofs and secondary containment around materials stored outside where stormwater cannot contact them.

Could I be exempted from an NPDES stormwater permit?

Possibly. A facility with any industrial activity subject to the NPDES Stormwater regulations that eliminates all potential stormwater exposure may be eligible for a No Exposure Exclusion from a stormwater permit. A facility that meets this condition may submit a No Exposure Certification application form (see NC DWQ's Stormwater Permitting Unit's website: http://h2o.enr.state.nc.us/su) to apply for a No Exposure Exclusion. The facility must re-certify No Exposure every five (5) years.

What if I sell my business, or the name of my business changes ?

This change is a minor modification and requires the Director's approval. You should complete the Name/Ownership Change Form SWU-239. This form is downloadable from our website, **http://h2o.enr.state.nc.us/su**.

Could I monitor at fewer outfalls?

All outfalls associated with vehicle maintenance must be monitored. However, the facility may request approval of "Representative Outfall Status." This status allows analytical monitoring at fewer outfalls. To request representative outfall status, send a letter to the DWQ Regional Office explaining which outfall(s) can be considered representative of other discharges and include all necessary supporting documentation.

Do I need a certified lab to analyze stormwater samples?

Monitoring under all NPDES permits must be conducted in accordance with test procedures approved under federal regulations in 40 CFR §136. All labs certified by North Carolina perform analysis in accordance with those procedures. While N.C. certification requirements do not apply to stormwater only discharges, any data gathered under an NPDES permit must conform to federal requirements. Using a certified lab is one way to ensure compliance with these requirements. A list of certified labs is available from: http://h2o.enr.state.nc.us/lab/cert.htm

Note that pH is a field parameter and **must be measured within 15 minutes.** You must either train on-site staff to measure pH in accordance with approved methods or contract with commercial services. All entities with *field parameter* certification as per 15A NCAC 2H .0800 can analyze pH in accordance with federal procedures (see website for list).

Where can I find more information?

Additional information is available at our website (see right). Another valuable source is the Division of Pollution Prevention and Environmental Assistance. The DPPEA has specific information about how to minimize pollutants at various industries. Call (919) 571-4100 or visit http://www.p2pays.org/

Who can help me with questions?

Your questions about stormwater permit requirements can be addressed to the Division of Water Quality Offices:

Asheville Office.....	(828) 296-4500	Washington Office.....	(252) 946-6481
Fayetteville Office.....	(910) 433-3300	Wilmington Office.....	(910) 796-7215
Mooresville Office.....	(704) 663-1699	Winston-Salem Office....	(336) 771-5000
Raleigh Office.....	(919) 791-4200	Central Office.....	(919) 733-5083

For more information about the programs of the Division of Water Quality's Stormwater Permitting Unit, see our home page at:
http://h2o.enr.state.nc.us/su

STORMWATER DISCHARGE OUTFALL (SDO)
MONITORING REPORT

Certificate of Coverage No. NCG _____

SAMPLES COLLECTED DURING CALENDAR YEAR: _____
(This monitoring report shall be received by the Division no later than 30 days from the date the facility receives the sampling results from the laboratory.)

FACILITY NAME _____
PERSON COLLECTING SAMPLE(S) _____
CERTIFIED LABORATORY(S) _____ Lab # _____
_____ Lab # _____

COUNTY _____
PHONE NO. (____)_____

_____
(SIGNATURE OF PERMITTEE OR DESIGNEE)
By this signature, I certify that this report is accurate complete to the best of my knowledge.

Part A: Vehicle Maintenance Activity Monitoring Requirements (only if, on average, more than 55 gallons per month of new motor oil is used)

Outfall No.	Date Sample Collected, mo/dd/yr	Total Rainfall, inches	New Motor Oil Usage, Annual average gal/mo	00556 Oil and Grease, mg/L	00530 Total Suspended Solids, mg/L	00400 pH, Standard units
Benchmark	-	-	-	30	100	6.0 – 9.0

Note: If you report a sampled value in excess of the benchmark value, or outside the benchmark range for pH, you must implement Tier 1 or Tier 2 responses in the General Permit.

Mail Original and one copy to:
Division of Water Quality
Attn: Central Files
1617 Mail Service Center
Raleigh, North Carolina 27699-1617

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

_____ _____
(Signature of Permittee) (Date)

Stormwater Discharge Outfall (SDO)
Qualitative Monitoring Report

Permit No.: N/C/__/__/__/__/__/__/__/__/ or Certificate of Coverage No.: N/C/G/__/__/__/__/__/__/__/
Facility Name: _____
County: _____ Phone No. _____
Inspector: _____
Date of Inspection: _____
Time of Inspection: _____

Total Event Precipitation (inches): _____

Was this a Representative Storm Event? (See information below) ☐ Yes ☐ No

Please check your permit to verify if Qualitative Monitoring must be performed during a representative storm event (requirements vary).

A "Representative Storm Event" is a storm event that measures greater than 0.1 inches of rainfall and that is preceded by at least 72 hours (3 days) in which no storm event measuring greater than 0.1 inches has occurred. A single storm event may contain up to 10 consecutive hours of no precipitation.

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

_____
(Signature of Permittee or Designee)

1. Outfall Description:
Outfall No. _____ Structure (pipe, ditch, etc.) _____
Receiving Stream: _____
Describe the industrial activities that occur within the outfall drainage area: _____
_____

2. Color: Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: _____
_____

3. Odor: Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.): _____
_____

4. **Clarity:** Choose the number which best describes the clarity of the discharge, where 1 is clear and 5 is very cloudy:

1 2 3 4 5

5. **Floating Solids:** Choose the number which best describes the amount of floating solids in the stormwater discharge, where 1 is no solids and 5 is the surface covered with floating solids:

1 2 3 4 5

6. **Suspended Solids:** Choose the number which best describes the amount of suspended solids in the stormwater discharge, where 1 is no solids and 5 is extremely muddy:

1 2 3 4 5

7. Is there any **foam** in the stormwater discharge? Yes No

8. Is there an **oil sheen** in the stormwater discharge? Yes No

9. Is there evidence of **erosion or deposition** at the outfall? Yes No

10. **Other Obvious Indicators of Stormwater Pollution:**

List and describe _____

Note: Low clarity, high solids, and/or the presence of foam, oil sheen, or erosion/deposition may be indicative of pollutant exposure. These conditions warrant further investigation.