



North Carolina Department of Environmental Quality  
Division of Waste Management

Pat McCrory  
Governor

Donald R. van der Vaart  
Secretary

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF WASTE MANAGEMENT  
SOLID WASTE SECTION

**SOLID WASTE MANAGEMENT FACILITY PERMIT NO. 9230**

**Griffin Brothers C&D Reclamation (Owner)**

**Greenway Waste Solutions, LLC**  
Parent company of

**Greenway Waste Solutions of Apex, LLC**  
is hereby issued a

**PERMIT TO CONSTRUCT**

*Phase 3*

**PERMIT TO OPERATE**

9230-CDLF- Phase 1 & 2  
Large Type 1 Compost Facility

**PERMIT FOR CLOSURE**

Closure Redesign

Located north of and accessed by Old Smithfield Road and west of Highway 55 By-pass and further described in Apex, Wake County, North Carolina, in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit. The facility is located and described by the legal description of the site or the property map contained within the approved application and previous permits.

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Edward F. Mussler, III, P.E.,  
Permitting Branch Supervisor  
Solid Waste Section

1646 Mail Service Center, Raleigh, North Carolina 27699-1646  
Phone: 919-707-8200 \ Internet: <http://portal.ncdenr.org/web/wm>

## ATTACHMENT 1

### PART I: PERMITTING HISTORY

FACILITY PERMIT NO: 92-30	ISSUANCE DATE	DIN
Original Issue date (PTC)	August 12, 2002	
Amendment 1 (PTO)	December 10, 2002	
Amendment 1 Modification, Compost & Reprocessing Facility (PTO)	December 27, 2002	3187
PTC Issued (C&D Phase I Expansion)	February 14, 2002	
PTO Issued (C&D Expansion)	July 24, 2002	
PTC Issued (C&D Phase 2, Large Type 1 Solid Waste Compost & Reprocessing Facility & Name Change)*	February 24, 2009	5929
PTO Issued (Phase 2 Cell 1A, 1.83 acres)	March 27, 2012	16176
PTO Issued (Phase 2 Cell 1B, 4.32 acres)	November 28, 2012	17687
PTC Issued ( 5 - Year Permit Renewal)	September 29, 2014	21731
PTO Issued (Phase 1 & 2 Cell 2, 6.48 acres)	September 29, 2014	21731
<b>PTC Issued ( 5 - Year Permit Renewal)</b>	<b>July ###, 2016</b>	<b>26471</b>
<b>PTO Renewal (Phase 1 &amp; 2)</b>	<b>September 29, 2014</b>	<b>26471</b>

\*Greenway Waste Solutions, LLC (previously C&D Management Company, LLC) is the parent company of Greenway Waste Solutions of Apex, LLC (Previously Highway 55 C&D Landfill, LLC).

### PART II: LIST OF DOCUMENTS FOR THE APPROVED PLAN

1.	Report – Site Application – <i>Highway 55 C&amp;D Landfill and Recycling Center</i> – prepared for Highway 55 C&D Landfill, LLC Construction & Demolition Landfill – Wake County, North Carolina; application dated 19 April 2002 and received 24 April 2002 from Enviro-Pro, P.C.
2.	Response to Comment dated 19 March 2002 – Site Suitability Permit Application, response received 24 April 2002 and 8 May 2002 from Enviro-Pro for information dated 19 April 2002 and 7 May 2002
3.	Second Response to Comment letter dated 3 July 2002 – Site Suitability Permit Application – response dated 11 July 2002 “Revised Site Plan Application Report” from Enviro-Pro
4.	Certified minutes from Wake County dated 3 December 2001 and 19 November 2001 indicating the vote of the Wake County Commissioners in approving the franchise for Highway 55 C&D Landfill, LLC, received in the Revised Site Suitability application dated April 2002 received 24 April 2002
5.	Special Use Permit recorded in Deed Book: 9099 and Pages: 1039 thru 1044, as part of the Site Suitability application dated April 2002 received 24 April 2002
6.	Deed description for re-combination of properties consisting of Book: 9099 and Pages: 1039 – 1044 representing 116.333 acres and Book: 9488 and Pages: 0922 – 0923 representing 0.963 acres.

7.	Reprocessing facility application dated December 17, 2002, signed by design engineer on December 18, 2002, received by the Solid Waste Section on December 19, 2002.
8.	<i>Phase II Construction Plan Application, Phase I Closure Update, and Composting Permit.</i> Prepared for: Highway 55 C&D Landfill, LLC. Prepared by: BP Barber. August 2007. Revised June 26, 2008. As Amended February 5, 2009 and February 19, 2009. DIN 5054
10.	Operations Plan, Construction And Demolition Debris Landfill Facility, Permit No. 92-30. Prepared For: Greenway Waste Solutions Of Apex, LLC. Prepared By: Civil & Environmental Consultant, Inc., Charlotte, North Carolina, CEC Project 111-370, December 21, 2011. DIN 16177
11.	<i>Construction Quality Assurance Report, Phase 2 Cell 1A.</i> Construction and Demolition Landfill Permit No. 92-30. Prepared for: Greenway Waste Solutions of Apex, LLC. Prepared by: Civil & Environmental Consultant Inc. February 1, 2012. DIN 16175.
12.	<i>Construction Quality Assurance Report, Phase 2 Cell 1A, Revision 1.</i> Construction and Demolition Landfill Permit No. 92-30. Prepared for: Greenway Waste Solutions of Apex, LLC. Prepared by: Civil & Environmental Consultant Inc. March 3, 2012. DIN 16361.
13.	<i>Operations Plan Revision 1, Construction And Demolition Debris Landfill Facility, Permit No. 92-30.</i> Prepared For: Greenway Waste Solutions Of Apex, LLC. Prepared By: Civil & Environmental Consultant, Inc., Charlotte, North Carolina, CEC Project 111-370. March 20, 2012. DIN 16359.
14.	<i>Construction Quality Assurance Report, Phase 2 Cell 1B. Construction and Demolition Landfill Permit No. 92-30.</i> Prepared for: Greenway Waste Solutions of Apex, LLC. Prepared by: Civil & Environmental Consultant Inc. November 1, 2012. DIN 17687.
14.	<i>Phase 2 Cell 2 Construction Plan.</i> . Prepared For: Greenway Waste Solutions Of Apex, LLC. Prepared By: Civil & Environmental Consultant, Inc., Charlotte, North Carolina, CEC Project 111-370.003. 11/21/2013. DIN 20213.
15	<i>Greenway Waste Solutions of Apex, LLC Permit Renewal. Request for the five-year permit renewal.</i> Prepared By: Civil & Environmental Consultant, Inc., Charlotte, North Carolina, CEC Project 111-370. March 21, 2014. DIN 20777.
16.	<i>Construction Quality Assurance Report, Phase 2 Cell 2. Construction and Demolition Debris Landfill Facility Permit No. 92-30,</i> Prepared For: Greenway Waste Solutions Of Apex, LLC. Prepared By: Civil & Environmental Consultant, Inc., Charlotte, North Carolina, CEC Project 111-370.003. July 22, 2014. DIN 21628.
17.	<i>Design Hydrogeological Data Review, Proposed Phase 3 Expansion, Highway 55 CDLF (SW Permit 9230-CDLF).</i> Approved by Solid Waste Section. March 29, 2016. DIN 25841.
18.	<i>Phase III Permit to Construct Application &amp; Closure Modification. Greenway Waste Solutions of Apex, LLC Permit Renewal.</i> Prepared for: Greenway Waste Solutions of Apex, LLC. Prepared by: Civil & Environmental Consultant, Inc., Charlotte, North Carolina. May 31, 2016. DIN 26511.

**Part III: PROPERTIES APPROVED FOR THE SOLID WASTE FACILITY**

<b>Wake County, N.C. Register of Deeds</b>				
Book	Page	Acreage	Grantor	Grantee
9099	1039-1044	116.333	Fon Associates Limited Partnership	Highway 55 C&D Landfill, LLC
9488	0922-0923	0.963	R. Markham and Ruth B. Stewart (50%), Melissa S. Woodell and Anthony K. Woodell (50%)	Highway 55 C&D Landfill, LLC

**PART IV: GENERAL CONDITIONS**

1. This permit is issued by the North Carolina Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Section (Section). In accordance with North Carolina Solid Waste Management Rule 15A NCAC 13B .0201(d), a solid waste management facility permit shall have two parts: a Permit to Construct and a Permit to Operate. The Permit to Construct must be implemented in accordance with Attachment 2 of this permit. The Permit to Operate must be implemented in accordance with Attachment 3 of this permit.
2. The persons to whom this permit is issued (“permittee”) are the owners and operators of the solid waste management facility.
3. The Permit to Construct for this facility dated August 12, 2002, was recorded in the Wake County Register of Deeds on August 13, 2002, in Deed Book 9539, Pages 316-335.
4. When this property is sold, leased, conveyed, or transferred in any manner, the deed or other instrument of transfer shall contain in the description section in no smaller type than that used in the body of the deed or instrument, a statement that the property has been used as a sanitary landfill and a reference by book and page to the recordation of the permit.
5. By receiving waste at this facility the permittee shall be considered to have accepted the terms and conditions of this permit.
6. Operation of this solid waste management facility shall be in accordance with the Solid Waste Management Rules, 15A NCAC 13B, Article 9 of the Chapter 130A of the North Carolina General Statutes (NCGS 130A-290, et seq.), the conditions contained in this permit; and the approved plan. Should the approved plan and the rules conflict, the Solid Waste Management Rules shall take precedence unless specifically addressed by permit condition.
7. This permit is issued based on the documents submitted in support of the application for permitting the facility including those identified in Attachment 1, Part II: List of Documents for the Approved Plan and which constitute the approved plan for the facility.

Where discrepancies exist, the most recent submittals and the Conditions of Permit shall govern.

8. This permit may be transferred only with the approval of the Section, through the issuance of a new or substantially amended permit in accordance with applicable statutes and rules. In accordance with NCGS 130A-295.2(g) the permittee shall notify the Section thirty (30) days prior to any significant change in the identity or business structure of either the owner or the operator, including but not limited to a proposed transfer of ownership of the facility or a change in the parent company of the owner or operator of the facility.
9. The permittee is responsible for obtaining all permits and approvals necessary for the development of this project including approval from appropriate agencies for a General or Individual NPDES Stormwater Discharge Permit. Issuance of this permit does not remove the permittee's responsibilities for compliance with any other local, state or federal rule, regulation or statute.

*-End of Section -*

## **ATTACHMENT 2**

### **CONDITIONS OF PERMIT TO CONSTRUCT**

**PART I: GENERAL FACILITY**

*Not Applicable*

**PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)**

*Not Applicable*

**PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNIT(S)**

10. Construction and operation of a future phases or cells requires the submission of a permit to construct application and approval by the Section. Future phases or cells must be constructed in accordance with applicable statutes and rules.
11. The Permit to Construct will expire on September 29, 2019. A permit amendment application for a permit to construct, prepared in accordance with 15A NCAC 13B .0535, must be submitted by March 29, 2019.
12. Construction of all solid waste management units within this facility must be in accordance with the pertinent approved plans and only for those phases of development approved for construction as described in Attachment I, Parts II – VII, "List of Documents for the Approved Plan."
13. The permittee must conduct a preconstruction meeting at the facility prior to initiating construction of any unit/cell and must notify the Section at least 10-days prior to the meeting.

14. Modifications or revisions of the approved documents or changes during construction of any landfill unit/cell require approval by the Section, and may constitute a permit modification and be subject to a permitting fee.

#### Geologic, Ground Water and Monitoring Requirements

15. Prior to issuing the Permit to Operate, samples from new ground water monitoring wells and surface water stations shall be sampled for the constituent list approved in the June 2009 Environmental Monitoring Plan.
16. Prior to construction of the phase or cell(s) within the phase, all piezometers, borings, and groundwater monitoring wells within the footprint must be properly abandoned in accordance with 15A NCAC 2C .0113 (b)(1), entitled "Abandonment of Wells.
17. In areas where soil is to be undercut, abandoned piezometers, monitoring wells and borings must not be grouted to pregrade land surface, but to the proposed base grade surface to prevent having to cut excess grout and possibly damage the wells.
18. A Licensed Geologist must report any pertinent geological feature(s) exposed during phase or cell excavation. Prior to placing any landfill liner, the geologist must submit to the Section hydrogeologist a written report that includes an accurate description of the exposed geological feature(s) and effect of the geological feature(s) on the design, construction, and operation of the cell, phase, or unit.
19. A Licensed Geologist must supervise installation of groundwater monitoring wells and surface water sampling stations.
20. Any modification to the approved water quality monitoring, sampling, and analysis plan must be submitted to the Section Hydrogeologist for review.
21. Within 30 days of completed construction of each new groundwater monitoring well, a well construction record (GW-1 form), typical well schematic, boring log, field log and notes, and description of well development activities must be submitted to the Section.
22. The permittee must provide a plan sheet-sized, scaled topographical map, showing the location and identification of new, existing, and abandoned wells and piezometers after installation of groundwater monitoring wells.
23. Within thirty (30) days of the completed permanent abandonment of a ground-water monitoring well, the well abandonment record (GW-30 form) and any additional information included in the abandonment record) must be submitted to the Section. The well abandonment records must be submitted to the Solid Waste Section in accordance with 15A NCAC 2C .0114(b) and be certified by a Licensed Geologist.

#### Erosion and Sedimentation Control Requirements

24. All required sedimentation and erosion control measures must be installed and operable to mitigate excessive on-site erosion and to prevent silt from leaving the area of the landfill unit during the service life of the facility.
25. All earth disturbing activities must be conducted in accordance with the Sedimentation Pollution Control Act of 1973 (15 NCAC 4) and consistent with any other local, state or federal requirements.

26. Facility construction, operations or practices must not cause or result in a discharge of pollution, dredged material, and/or fill material into waters of the state in violation of the requirements under Sections 401 and 404 of the Clean Water Act, as amended.
27. Modifications to the approved sedimentation and erosion control activities require approval by the North Carolina Land Quality Section. The Section must be notified of any sedimentation and erosion control plan modifications.

**PART IV: INDUSTRIAL LANDFILL UNIT(S)**

*Not Applicable*

**PART V: LAND CLEARING AND INERT DEBRIS LANDFILL UNIT(S)**

*Not Applicable*

**PART VI: TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)**

*Not Applicable*

**PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT**

*Not Applicable*

### **ATTACHMENT 3**

#### **CONDITIONS OF PERMIT TO OPERATE**

**PART I: GENERAL FACILITY**

1. The Permit to Operate shall expire **September 29, 2019**. Pursuant to 15A NCAC 13B .0201(g), no later than **March 29, 2019** the permittee must submit to the Section a permit amendment application prepared in accordance with 15A NCAC 13B .0535 (b).
2. This permit approves the operation of Phases 1 and Phase 2 of the landfill, as well as the onsite environmental management and protection facilities as described in the approved plans.
3. The following table lists the dimensions and details for the landfill, both existing and planned. Total gross capacity is defined as the volume measured from the bottom of waste through the top of final cover. The total disposal area of Phases 1 through 3 is 43.8 acres.

The currently Permitted Capacity and Acreages and the proposed Acreages of each of the phases are shown in the chart below:

<b>Area</b>	<b>Gross Capacity yd<sup>3</sup></b>	<b>Currently Permitted Acreage</b>	<b>Proposed Acreage</b>
Phase 1	858,000	17.8	17.8

Phase 2	1,100,000	14.8	14.8
Phase 3	900,000	11.2	9.6
<b>Totals</b>	<b>2,858,000</b>	<b>43.8</b>	<b>42.2</b>

The proposed revisions associated with the final closure modifications in this Permit will increase the capacity for the Phases I, II, and III to 3,130,000 yd<sup>3</sup>. The resulting additional capacity is 272,000 yd<sup>3</sup>, a 9.5% increase in capacity from the permitted combined capacity. This information is summarized in the table below:

Area	Permitted Capacity (yd <sup>3</sup> )	Proposed Additional Capacity (yd <sup>3</sup> )	Proposed Capacity (yd <sup>3</sup> )	Proposed Increase in Capacity
Phases I, II, III	2,858,000	272,000	3,130,000	9.5%

{Combined Table showing all Capacity Totals}

Area	Gross Capacity yd <sup>3</sup>	Currently Permitted Acreage	Proposed Acreage
Phase I	858,000	17.8	17.8
Phase II	1,100,000	14.8	14.8
Phase III	900,000	11.2	9.6
<b>Permitted Total Capacity (yd<sup>3</sup>) for Phases I-III</b>	<b>2,858,000</b>	<b>43.8</b>	<b>42.2</b>
Proposed Additional Capacity (yd <sup>3</sup> ) for Phases I-III	272,000		
Proposed Capacity (yd <sup>3</sup> ) for Phases I-III	3,130,000		
<b>Proposed Increase in Capacity for Phases I-III</b>	<b>9.5%</b>		

Total constructed capacity 1,958,000 CY

- a. Total constructed Phase 2 area is 12.63 acres. This difference is attributed to the approximate nature of the initial permit drawings and the addition of sediment control measures after the issuance of permit.
- b. Includes layover onto Phase 1 and Phase 2, Cell 1A and Cell 1B.
4. The permittee must maintain permanent markers that accurately identify the edge of the approved waste disposal boundary.
5. The landfill is permitted to receive the following waste types:
  - a. "C&D solid waste" as defined in 15A NCAC 13B, Rule .0532(8) means solid waste generated solely from the construction, remodeling, repair, or demolition operations on pavement and buildings or structures. C&D waste does not include municipal and industrial wastes that may be generated by the on-going operations at buildings or structures.
  - b. "Inert debris" as defined in G.S. 130A-290 (a)(14) means solid waste that consists solely of material such as concrete, brick, concrete block, uncontaminated soil, rock, and gravel.
  - c. "Land-clearing debris" as defined in G.S. 130A-290 (a)(15) means solid waste which is generated solely from land clearing activities, limited to stumps, trees, limbs, brush, grass, and other naturally occurring vegetative material.
  - d. "Asphalt" in accordance with G.S. 130-294(m).
6. Regulated asbestos-containing material must be managed in accordance with 40 CFR 61. Disposal of asbestos waste must be in accordance with 15 NCAC 13B .0542 (c).
7. Those wastes listed in 15A NCAC 13B .0542 (e) must not be accepted for disposal including, but not limited to, hazardous waste, municipal solid waste, liquid waste, commercial and industrial wastes, and yard trash.
8. Wastewater treatment sludge is not approved for disposal. Wastewater treatment sludge may be accepted, with the approval of the Section, for utilization as a soil conditioner and incorporated into or applied onto the vegetative growth layer. The wastewater treatment sludge must not be applied at greater than agronomic rates nor to a depth greater than six inches.
9. The facility is approved to accept approximately 200,000 tons per year. Maximum variance shall be in accordance with NCGS 130A-294(b1)(1).
10. The facility is permitted to receive C&D waste generated within Wake County.
11. The permittee must not knowingly dispose of C&D waste that is generated within the boundaries of a unit of local government that by ordinance:
  - a. Prohibits generators or collectors of C&D waste from disposing of that type or form of C&D waste.
  - b. Requires generators or collectors of C&D waste to recycle that type or form of C&D waste.
12. The facility operator must complete an approved operator training course in compliance with G.S. 130A-309.25.

- a. A responsible individual certified in landfill operations must be on-site during all operating hours of the facility while open for public use to ensure compliance with operational requirements.
13. All pertinent landfill-operating personnel must receive training and supervision necessary to properly operate the landfill units in accordance with G.S. 130A-309.25 and addressed by memorandum dated November 29, 2000.
14. The permittee must actively employ a training and screening program at the facility prepared in accordance with Rule .0544 (e) for detecting and preventing the disposal of excluded or unauthorized wastes. At a minimum, the program must include:
  - a. Random inspections of incoming loads or other comparable procedures.
  - b. Records of all inspections.
  - c. Training of personnel to recognize hazardous, liquid and other excluded waste types.
  - d. Development of a contingency plan to properly manage any identified hazardous, liquid, MSW or other excluded or unauthorized wastes. The plan must address identification, removal, storage and final disposition of these wastes.
15. The use of alternative periodic cover requires approval, prior to implementation, by the Section. Requests for alternative periodic cover approval must include a plan detailing the comprehensive use and a demonstration of the effectiveness of the alternative cover. The plan must be developed according to Section guidelines. Plans which are approved by the Section will be incorporated into, and made a part of, the approved documents listed in Attachment 1. In accordance with NCAC 130A-295.6, the owner may use alternative periodic cover that has been previously approved at another sanitary landfill in North Carolina. The Solid Waste Section maintains a list of approved cover and its appropriate use, which may be referred to, but is not required to be, in determining cover types and uses. Soil cover shall be applied at a minimum of one time per week in accordance with Rule .0542 (f). Soil shall be applied more frequently, if needed, to control nuisance, odor or vectors.
16. Financial assurance must be continuously maintained for the duration of the facility in accordance with Rule 15A NCAC 13B .0546. The owner and operator must annually adjust cost estimates for closure, post-closure activities, current corrective action (*if required*), and potential assessment and corrective action for inflation within 60 days prior to the anniversary date of the establishment of the financial instrument(s), pursuant to 15A NCAC 13B .0546.
17. All sedimentation and erosion control activities must be conducted in accordance with the Sedimentation Control Act N.C.G.S. 113A-50, et seq., and rules promulgated under 15A NCAC 4. All required sedimentation and erosion control measures must be installed and operable to mitigate excessive on-site erosion and to prevent silt from leaving the area of the landfill unit during the service life of the facility.

18. Facility construction, operations or practices must not cause or result in a discharge of pollution, dredged material, and/or fill material into waters of the state in violation of the requirements under Sections 401 and 404 of the Clean Water Act, as amended.
19. Modifications to the approved sedimentation and erosion control activities require approval by the North Carolina Land Quality Section. The Section must be notified of any sedimentation and erosion control plan modifications.
20. An updated closure and post-closure plan must be submitted for approval at least ninety (90) days prior to closure or partial closure of any landfill unit. The plan must include all steps and measures necessary to close and maintain the C&DLF in accordance with all rules in effect at that time. At a minimum, the plan must address the following:
  - a. Design of a final cover system in accordance with 15 NCAC 13B .0543(c), or the solid waste management rules in effect at the time of closure;
  - b. Construction and maintenance/operation of the final cover system and erosion control structures;
  - c. Surface water, groundwater, and landfill gas monitoring.

## **PART II: MONITORING AND REPORTING REQUIREMENTS**

21. Groundwater, surface water, and landfill gas monitoring locations must be established and monitored as identified in the approved plans. Any proposed modification to an approved plan must be submitted to the Section and approved prior to implementation.
22. A licensed geologist must be present to supervise the installation of groundwater monitoring wells and landfill gas monitoring wells. The exact locations, screened intervals, and nesting of the wells must be established after consultation with the Section Hydrogeologist at the time of well installation.
23. The permittee must obtain approval from the Section for the design, installation, and abandonment of any groundwater or landfill gas monitoring well.
24. Groundwater monitoring wells and surface water sampling locations must be sampled at least semi-annually in accordance with 15A NCAC 13B .0544, the approved water quality monitoring plan, and the current policies and guidelines of the Section in effect at the time of sampling. In accordance with 15A NCAC 13B .0544(d), landfill gas monitoring must be conducted quarterly, unless otherwise specified by the Section.
25. Hydraulic conductivity and effective porosity values must be established for each screened interval at each monitoring well in order to develop groundwater flow characteristics.
26. Monitoring reports of the analytical results for surface water and groundwater monitoring sampling events must be submitted to the Section within 120 days of the sample collection date. Analytical laboratory data must be submitted in electronic portable document format (pdf) and in a spreadsheet format in an Electronic Data Deliverable (EDD) Template. All monitoring reports must contain:
  - a. a potentiometric surface map for the current sampling event,
  - b. analytical laboratory reports and summary tables,
  - c. a completed Solid Waste Environment Monitoring Data Form, and

- d. laboratory data submitted in accordance with the EDD Template.
27. A readily accessible unobstructed path must be maintained so that groundwater and landfill gas monitoring wells and surface water sampling locations are accessible using four-wheel drive vehicles.
  28. Documentation of well completion, development details, repair, abandonment, and all other pertinent activities associated with each groundwater and landfill gas monitoring well must be maintained in the facility operating record. The permittee must maintain a record of all groundwater, surface water, and landfill gas monitoring events and analytical data in the operating record.
  29. Within 30 days of completed construction of each new groundwater and landfill gas monitoring well, a well construction record, well schematic, boring log, field log and notes, and description of well development activities must be submitted to the Section. Form GW-1 must be used for both groundwater and landfill gas wells. The submittal must also include a scaled topographic map, showing the location and identification of new, existing, and abandoned wells and piezometers, and hydraulic conductivity and effective porosity values.
  30. Each groundwater monitoring well and landfill gas well must be surveyed for location and elevation. Each groundwater monitoring well and landfill gas monitoring well must have an identification plate permanently attached to the well, in accordance with 15A NCAC 2C .0108(o).
  31. Within thirty (30) days of the abandonment of any groundwater monitoring well, the well abandonment record (GW-30 form) and any additional information included in the abandonment record must be certified by a Licensed Geologist, and submitted to the Section. A copy of the well abandonment records submitted to the Division of Water Quality, consistent with 15A NCAC 2C .0114(b), must be submitted to the Section.
  32. All forms, reports, maps, plans, and data submitted to the Section must include an electronic (pdf) copy.
  33. All landfill gas monitoring must be conducted by properly trained personnel and must include monitoring for hydrogen sulfide. Landfill gas monitoring must include interior monitoring of onsite buildings.
  34. Landfill gas monitoring results must be recorded on forms provided by the Section and be maintained in the facility's operating record.
  35. Within thirty (30) days of the abandonment of a landfill gas monitoring well, an abandonment record must be submitted to the Section. The boring must be abandoned in accordance with 15A NCAC 2C .0113(d) and be certified by a Licensed Geologist.

### **PART III: REPORTING AND RECORDKEEPING**

36. Copies of this permit, the approved plans, and all records required to be maintained in the operating record by the permittee must be maintained at the facility and made available to the Section upon request during normal business hours.

37. The owner or operator must maintain records of the following. Scales must be used to weigh the amount of waste received. The daily reports are to be summarized into a monthly report for use in the required annual reports.
  - a. The amount of all accepted solid waste materials as (i) C&D wastes, (ii) material used as alternate periodic cover, and (iii) recyclable material.
  - b. Daily records of waste received, and origins of the loads.
38. On or before August 1 annually, the Permittee must submit an annual facility report to the Section, on forms prescribed by the Section.
  - a. The reporting period shall be for the previous year beginning July 1 and ending June 30.
  - b. The annual facility report must list the amount of waste received in tons and be compiled:
    - i. On a monthly basis.
    - ii. By county, city or transfer station of origin.
    - iii. By specific waste type.
    - iv. By disposal location within the facility.
    - v. By diversion to alternative management facilities.
  - c. A measurement of volume utilized in the landfill cells must be performed during the second quarter of the calendar year. The date and volumes, in cubic yards, must be included in the report.
  - d. The amount of waste, in tons from scale records, disposed in landfill cells from December 10, 2002 through the date of the annual volume survey must be included in the report.
  - e. The tons of C&D waste recycled, recovered or diverted from disposal including a description of how and where the material was ultimately managed, as applicable, must be included in the report.
  - f. The completed report must be forwarded to the Regional Environmental Senior Specialist for the facility by the date due on the prescribed annual facility report form.
  - g. A copy of the completed report must be forwarded to each county manager for each county from which waste was received the facility. Documentation that a copy of the report has been forwarded to the county managers must be sent to the Regional Environmental Senior Specialist by the date due on the prescribed annual facility report form.

- End of Section -

## **PART IV- MISCELLANEOUS TREATMENT AND PROCESSING UNIT OPERATING CONDITIONS**

### General Conditions

39. Wastes received and product stored shall be maintained in reasonably sized piles with adequate fire breaks and lanes in accordance with the approved operational plans and the pertinent rules.
40. Surface water shall be diverted from all operational and storage areas to prevent standing water in operational areas and under or around storage piles. Water that comes in contact with solid waste shall be contained on-site or properly treated prior to discharge.
41. These areas shall be operated and maintained with sufficient dust control measures to minimize airborne emissions and to prevent dust from becoming a nuisance or safety hazard.
42. These areas shall be operated and maintained in a manner so as to minimize odors, prevent the creation of a nuisance, potential health hazard, or a potential fire hazard.
43. Effective vector control measures shall be applied as necessary to control flies, rodents, insects, or vermin.
44. All miscellaneous solid waste management activities must be managed within the facility in the areas identified in the approved plans. Management of solid waste in areas of the facility other than that referenced above, require written permission of the Solid Waste Section.

### Large, Type 1 Solid Waste Compost and Reprocessing Facility, Located within Phase 3

45. Operation and maintenance of this facility shall be in accordance with the Solid Waste Compost Rules (15A NCAC 13B, Section .1400), the permit application and the Operation and Maintenance Manual, dated June 26, 2008 and revised through March 20, 2012.
46. Only materials specifically listed in the permit application may be managed at this facility. A permit modification is required for a request to receive additional feedstocks.
47. The capacity of the site is approximately 20,000 tons per year. A permit modification is required for a request to increase capacity.
48. An appropriate Division of Water Quality permit for managing any stormwater or wastewater at the facility must be maintained as required. Any leachate generated at the facility and any runoff from the facility must be managed in such a manner that ground or surface water quality will not be adversely affected. The facility must be maintained to prevent the accumulation of stormwater and leachate on composting areas, storage areas, and roads.
49. All sedimentation and erosion control activities must be conducted in accordance with the Sedimentation Control Act NCGS 113A-50, et seq., and rules promulgated under 15A NCAC 4. All required sedimentation and erosion control measures must be installed and operable to mitigate excessive on-site erosion and to prevent silt from leaving the compost area.

50. Facility construction, operations or practices must not cause or result in a discharge of pollution, dredged material, and/or fill material into waters of the state in violation of the requirements under Sections 401 and 404 of the Clean Water Act, as amended.
51. Feedstocks must not be received that are in an anaerobic state.
52. In the event of a mechanical failure, the facility must immediately use its best effort to utilize substitute equipment for completion of the composting operation.
53. The odor management procedures must be followed to minimize odors at the facility boundary. Upon receipt of an odor complaint, the facility operator must investigate and take action as necessary to minimize the cause of the complaint. A copy of all written complaints regarding this facility must be maintained for the duration of the permit including the operator's actions taken to resolve the complaints.
54. The facility must be operated in a manner that reduces the potential for vector attraction.
55. The compost operation and the compost pad must be operated and maintained with sufficient dust control measures to minimize airborne emissions and to prevent dust from becoming a nuisance or safety hazard. Facility operation must meet Division of Air Quality Rules 15 NCAC 2D. Fugitive dust emissions from the facility that contribute to substantive complaints may subject the facility to the Division of Air Quality requirements as listed in 15A NCAC 2D .0540.
56. Groundwater quality at this facility is subject to the classification, monitoring, and remedial action provisions of 15A NCAC 2L. Groundwater monitoring may be required if there is an indication for the potential for groundwater contamination.
57. All compost produced at the facility must meet the requirements of Rule .1407 of the Solid Waste Compost Rules and the permit application.
58. Windrow dimensions for active composting must be limited to a maximum of 6-feet high and 15-feet wide unless otherwise approved by the Section. Stockpiling of all feedstocks and finished product must be limited to a maximum of 30-feet high and 50-feet wide.
59. Testing and reporting must be conducted in accordance with the requirements of Rule .1408 and the permit application. Compost process data must be maintained in writing as required to document temperatures, moisture levels, and aeration intervals. Bulk density and C:N calculations must be reviewed weekly.
60. An annual report of facility activities for the fiscal year July 1 to June 30 must be submitted to the Section by August 1 of each year on forms provided by the Section. This report must include the amount of materials composted in tons.
61. Copies of this permit, the approved plans, and all records required to be maintained by the permittee must be maintained at the facility and made available to the Section upon request during normal business hours.

#### Treatment & Processing (Wood Grinding)

62. The facility is permitted to operate a treatment and processing facility as defined in 15A NCAC 13B, Rule .0101(49).
63. The facility is permitted to receive land clearing waste as defined in 15A NCAC 13B, Rule .0101(23).

64. The facility is permitted to receive wooden pallets constructed of unpainted and untreated natural wood.
65. The facility is permitted to receive yard trash as defined in 15A NCAC 13B, Rule .0101(55). However, this ground material containing yard trash may not be distributed to the public unless it has been composted in accordance with Rule .1400.

- End of Section -

## **ATTACHMENT 4**

### **CONDITIONS OF PERMIT FOR CLOSURE**

#### **PART I: GENERAL FACILITY**

1. Closure or partial closure of any landfill unit must be in accordance with the closure plans described in the approved plans. Proposed changes to the approved closure plans must be submitted to the Section at least 90 days prior to implementation.
2. Closure construction quality assurance reports must be submitted to the Section at least annually and maintained in the operating record of the facility.
3. Final closure of the landfill and initiation of the 30-year post-closure period commences upon the engineer's certification that the closure of the fill is complete.
4. Post-closure use of the property must not disturb the integrity of the cap system, base liner system, or any other components of the containment system or the function of the monitoring systems. The Section may approve disturbance if the constructor or operator demonstrates that disturbance of the cap system, base liner system, or other component of the containment system will not increase the potential threat to public health, safety, and welfare; the environment; and natural resources.

#### **PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)**

*Not Applicable*

#### **PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNIT(S)**

*Not Applicable*

#### **PART IV: INDUSTRIAL LANDFILL UNIT(S)**

*Not Applicable*

#### **PART V: LAND CLEARING AND INERT DEBRIS LANDFILL UNIT(S)**

*Not Applicable*

#### **PART VI: TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)**

*Not Applicable*

#### **PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT**

*Not Applicable*

- End of Permit Conditions -