NCDENR

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
Division of Waste Management

Beverly Eaves Perdue	Dexter R. Matthews	Dee Freeman
Governor	Director	Secretary

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION

CONSTRUCTION AND DEMOLITION LANDFILL FACILITY
Permit No. 41-16-CDLF

WCA OF HIGH POINT, LLC
and WCA WASTE SYSTEMS, INC., wholly owned subsidiaries of
WCA WASTE CORPORATION
are all hereby issued a

PERMIT TO CONSTRUCT AND OPERATE

CONSTRUCTION AND DEMOLITION WASTE RECLAMATION PAD and
CONSTRUCTION AND DEMOLITION LANDFILL

located on the west side of Riverdale Drive (SR 1145) approximately 800 feet south of the intersection with East Kivett Drive, east of the City of High Point, Guilford County, North Carolina. This permit is issued in accordance with Article 9 of Chapter 130A of the General Statutes of North Carolina and the rules promulgated thereunder, and is subject to the conditions set forth in this permit. The facility is described by the legal description of the site or property map contained within the approved application and further identified on the deeds recorded for this property listed in Attachment 1 of this permit.

cn=Edward F. Mussler III P. E., o=Division of Waste Mngt, ou=Solid Waste Section, email=ed. mussler@ncdenr.gov, c=US
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Edward F. Mussler, III, P.E.
Permitting Branch Supervisor
Solid Waste Section

ATTACHMENT 1

Part I. Permitting History

Issuance	Date
PTC Issued (T&P Reclamation Pad) to MRR of High Point, LLC	March 13, 2003
PTC Issued (C&D Landfill) for Phase 1	May 14, 2003
PTO Issued (Phase 1 Cell A, and Reclamation Pad)	February 10, 2004
PTO (Operations Plan, Service Area, Cells 2 and 3)	December 9, 2004
New Permit-PTO (Ownership Change to WCA of High Point, LLC, and Operate Cells 4 & 5) DIN 3286	December 28,2007
PTC (Phase 2) and PTO (Reclamation Pad and C&D Landfill Phase 1; Cells 1, 2, 3, 4, and 5) DIN 6710	February 20, 2009
PTO Issued (Phase 2A and Reclamation Pad) DIN 11138	July 21, 2010

Part II. List of Documents for the Approved Plan

1. *Volume One, Site Application, Section I, WCA of North Carolina, LLC, Construction and Demolition Debris Landfill, High Point, North Carolina*. Prepared by Joyce Engineering, Inc.. June 2002, revised through January 24, March 5, and April 1, 2003.

2. *Volume One, Site Application, Section II - Hydrogeologic Report and Groundwater Monitoring Plan, WCA of North Carolina, LLC Construction and Demolition Debris Landfill, High Point, North Carolina*. Prepared by Joyce Engineering, Inc. June 2002, revised through January 24, March 5, and April 1, 2003.

3. *Volume Two, Construction Plan Application, WCA of North Carolina, LLC Construction and Demolition Debris Landfill, High Point, North Carolina*. Prepared by Joyce Engineering, Inc. June 2002, revised through January 24, March 5, and April 1, 2003.

4. Fax dated February 12, 2003, from the City of High Point containing certified copy of the minutes of the City Council Meeting of June 17, 2002, which approved the facility franchise agreement.

5. Fax dated February 12, 2003, from Joyce Engineering, Inc. containing a copy of the service area map referenced in the approved franchise agreement. Two full size maps of the service area received February 13, 2003.

6. Fax dated February 19, 2003, from Joyce Engineering, Inc. containing information submitted to the City of High Point for its review of the franchise agreement and local government approval of the C&D facility.

7. Sediment and Erosion control plan approval from the City of High Point dated February 25, 2003.

8. Instrument of Combination dated May 30, 2003, and submitted by Coggin, Blackwood & Brannan, Attorneys at Law, making the five previous parcels of land into one single tract of land for permitting purposes.

9. Letter from Joyce Engineering, Inc. addressing as-built certification for the reclamation pad area of the facility, including a drawing titled "As Built Survey for a Portion of MRR of High Point." December 22, 2003.

10. Letter from MRR Southern, LLC, as a follow up to a previous telephone conversation requesting a "temporary" Permit to Operate in order to conduct processing equipment tests with a nominal amount of waste material. December 22, 2003. Equipment testing was conducted on December 30, 2003, with a representative of the Solid Waste Section on site.

11. Letter from Joyce Engineering, Inc. providing hydro geologic subgrade inspection certification and well abandonment records for ten piezometers and one water well. January 21, 2004. Cover letter was replaced by an additional letter that addressed weathered bedrock encountered in the central portion of Cell A. January 29, 2004.

12. Letter from Joyce Engineering, Inc. addressing as built surveys for the reclamation pad and for Phase 1 - Cell A of the C&D Landfill. Three drawings were included: "Comparison of As-Built Grades to Permitted Base Grades," "As Built Survey for a Portion of WCA of North Carolina, LLC," and "As Built Survey Phase II for a Portion of WCA of North Carolina, LLC." January 29, 2004.

13. Letter from "Pat" Curran, Manager of the Health Hazards Control Unit, Epidemiology Section, Division of Public Health, NC Division of Health and Human Services. January 13, 2004. Received February 2, 2004. Letter addresses the Unit's review of MRR of High Point's Operation Plan for the proposed Reclamation Center.

14. Letter from David Garrett, P.G., P.E., Engineering and Geology, certifying that the base grades for Cells 2 and 3 of Phase 1 were constructed according to the approved plan. Letter includes an as-built survey drawing showing the limits of construction. December 2, 2004.

15. Letter from David Garrett, P.G., P.E. Engineering and Geology certifying that the base grades for Cells 4 and 5 of Phase 1 were constructed according to the approved plan. Letter includes an as-built survey drawing showing the limits of construction. April 18, 2006.

16. Series of correspondence relating to ownership, name and properties [Document Id Nos. RCO826, RCO827, RCO3177, RCO3196, RCO3246].

17. *Application for Permit to Construct WCA of High Point Construction and Demolition Landfill Phase 2 Expansion*. Prepared by: Golder Associates NC Inc., Greensboro, NC. March 2007, revised through November 17, 2008. Document ID No. 6646.

18. *Construction Quality Assurance Documentation for CDLF Phase 2A,* Prepared for WCA of High Point (Permit #41-16) Guilford County, North Carolina. Prepared by David Garrett, P.G., P.E., Engineering and Geology. Dated April 14, 2010, received April 29, 2010. DIN 11185

PART III: PROPERTIES APPROVED FOR THE SOLID WASTE FACILITY

Guilford County, N.C. Register of Deeds		
Book	Page	Tax Reference
5248	914	Tax No. 18-523-1-1
5350	1568	Tax No. 18-523-1-1
5018	273	Tax No. 18-523-1-2
5248	914	Tax No. 18-523-1-3
5759	1144	Tax No. 18-523-1-4
5248	911	Tax No. 18-523-1-5
5830	2290-2292	Combination Instrument
Plat Book 150	96-97	Recombination Plat Map – New Lot "A"
	Total Acreage	149.83 acres

The Permit to Operate issued December 27, 2007, was recorded with the Guilford County Register of Deeds in Book 6838, pg 517-528.

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 shall expire on January 21, 2012. The Permit to Operate shall expire February 20, 2014. The Permit to Operate for Phase 2B will require a modification fee. 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. (Intentionally blank)

4. When this property is sold, leased, conveyed, or transferred in any manner, the deed or other instrument of transfer must 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 beginning construction or receiving waste at this facility the permittee shall be considered to have accepted the terms and conditions of this permit.

6. Construction and operation of this solid waste management facility shall be in accordance with the North Carolina 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 identified in Attachment 1, Part II, "List of Documents for the Approved Plan," 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 and 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 must 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 National Pollutant Discharge Elimination System (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

1. Construction of any C&D landfill future phases requires written approval of the Section. Application for Permit to Construct must be prepared in accordance with applicable statutes and rules in effect on that date and will be subject to a permitting fee.

Part I. Facility Specific Conditions

1. Pursuant to the North Carolina Solid Waste Management Rules 15A NCAC 13B .0201 (c) and (d) (1) and Rule 15A NCAC 13B .0534 (b) (2) (H), this permit approves construction of Phase 2 of the WCA of High Point C&DLF.

2. The initial, substantial, construction authorized by this Permit to construct must commence within 18 months from the issuance date of this permit. If substantial construction does not begin within 18 months from the issuance date of this permit, then the permit shall expire. Substantial construction includes, but is not limited to, issuance of construction contracts, mobilization of equipment on site, and construction activities including installation of sedimentation and erosion control structures. The permittee may re-apply for the Permit to Construct prior to the expiration date. The re-application will be subject to the statutes and rules in effect on that date and may be subject to additional fees.

3. 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 1, Part II, "List of Documents for the Approved Plan."

4. 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 ten (10) days prior to the meeting.

5. 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.

<u>Geologic, Ground Water, and Monitoring Requirements</u>

6. Prior to issuing the Permit to Operate, the ground water monitoring wells and surface water sampling locations must be sampled for the Appendix I constituent list.

7. Prior to construction of the phase or cell(s) within the phase, all piezometers, borings, and ground water monitoring wells within the footprint area must be properly abandoned in accordance with 15A NCAC 02C .0113 (b)(1), entitled "Abandonment of Wells." All piezometers within the footprint area must be overdrilled to the full depth of the boring, prior to cement or bentonite grout placement and the level of the grout within the boring must not exceed in height the elevation of the proposed basegrade.

8. All borings which intersect the water table at the site must be constructed and maintained as permanent monitoring wells in accordance with 15A NCAC 02C .0108 and certified as meeting this condition by a Licensed Geologist. A Licensed Geologist must supervise the installation of groundwater monitoring wells.

9. Any borings which intersect the water table at the site that are abandoned must be properly abandoned in accordance with the procedures for permanent abandonment of wells as delineated in 15A NCAC 02C .0113 and certified as meeting this condition by a Licensed Geologist.

10. The landfill subgrade must be graded in accordance to the approved plans and specifications. The permittee must have the subgrade inspected by a qualified geologist or engineer when excavation is completed. The permittee must notify the Section's hydrogeologist at least twenty-four (24) hours before subgrade inspection.

11. Within thirty (30) days of the completed construction of each new ground-water monitoring well, the well construction record (GW-1b form), well schematic, boring log, field log and notes, and description of well development activities must be submitted to the Section.

12. 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.

13. Any borings which intersect the water table at the site that are abandoned must be properly abandoned in accordance with the procedures for permanent abandonment of wells as delineated in 15A NCAC 02C .0113 and certified as meeting this condition by a Licensed Geologist.

14. The landfill subgrade must be graded in accordance to the approved plans and specifications. The permittee must have the subgrade inspected by a qualified geologist or engineer when excavation is completed. The permittee must notify the Section's hydrogeologist at least twenty-four (24) hours before subgrade inspection.

15. Any modification to the approved water quality monitoring, sampling, and analysis plan must be submitted to the Section hydrogeologist for review.

16. The permittee must obtain approval from the Section for the design, installation, and development and decommission of any monitoring well or piezometers. Any modification to an approved plan must be reviewed and approved by the Section. Documentation must be placed in the operating record and provided to the Section.

Erosion and Sedimentation Control Requirements

17. All required sedimentation and erosion control measures must be installed and operable to mitigate on-site erosion of the C&DLF facility or unit and to prevent sediment from leaving the C&DLF facility.

18. All land-disturbing activities must be conducted in accordance with the Sedimentation Pollution Control Law (15 NCAC 4) and consistent with any federal, state, or local requirements.

19. Facility construction, operations, or practices must not cause or result in a discharge, including dredged or fill material, into the waters of the state in violation of the requirements under Sections 401 and 404 of the Clean Water Act, as amended.

20. 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 II. Construction & Demolition Debris Unit Specific Conditions

21. This permit authorizes the construction of Phase 2 of the WCA of High Point C&DLF. Phase 2 consists of 9.4 acres and 965,412 cubic yards of gross capacity in accordance with the approved plan referenced in Attachment 1, Part II of this permit.

    a. Gross capacity is the measured volume between the bottom of waste and the top of final cover.

    b. Areas identified as future cells are deemed suitable for preparation of a permit application in accordance with North Carolina Solid Waste Rule 15A NCAC 13B .0536(a)(1). The permittee must submit an application for a Permit to Construct in compliance with applicable rules and statutes before commencement of construction in those future areas.

    c. This permit approves the Facility Plan that defines the comprehensive development of the facility including the total C&DLF capacity, the C&D waste stream, all onsite solid waste management facilities and related infrastructure in accordance with 15 NCAC 13B .0537. The landfill approved for development is summarized below.

Estimated Landfill Capacity

PHASE	AREA (acres)	GROSS CAPACITY (cubic yards)
1	12.5 Operational	637,380
2A	4.7 Constructed	482,706
2B	4.7	~ 482,706
3	6.5	489,478
4	5.6	810,639
5	8.5	607,456
6	3.6	853,317
TOTAL	46.1	4,251,206

22. The following conditions must be met prior to operation of any unit /cell in the Phase 2 area.

    a. The permittee must obtain a Permit to Operate the Phase 2 area from the Section in accordance with 15A NCAC 13B .201(d).

    b. Construction Quality Assurance (CQA) documentation as well as a certification by the project engineer that the landfill was built in accordance with approved plans and the conditions of the permit must be submitted to the Section for review and approval.

    c. The permittee must contact the appropriate regional environmental specialist and permitting engineer to determine whether the Section chooses to hold a pre-operative meeting with key landfill personnel and representatives of the Section.

    d. The edge of the waste footprint must be identified with a permanent physical marker.

- End of Construction Permit Conditions -

ATTACHMENT 3
CONDITIONS OF PERMIT TO OPERATE

Part I. Operating Conditions

1. This permit approves the continued operation of Phase 1, Cells 1, 2, 3, 4, and 5 and Phase 2A of the C&DLF at the facility. Phase 2A is approximately 4.7 acres. Operation of Phase 2B, and any future phases or cells of the C&DLF, requires the written approval of the Section after it is determined that the phase was constructed in accordance with the applicable statutes and rules and will be subject to a permitting fee.

2. This permit approves the continued operation of the C&D Waste Reclamation Pad at the facility.

3. This facility is permitted to receive solid waste generated within the following counties: Guilford, Forsyth, Davidson, and Randolph Counties and the municipalities contained within those counties consistent with the franchise approved by the City of High Point.

4. The permitted annual waste disposal rate is approximately 98,600 tons per year, with a maximum variance in accordance with G.S. 130A-294(b1)(1). This rate is approximately 315 tons per day assuming 285 operating days per year as identified in the approved plan and consistent with the franchise granted by the City of High Point and amended December 12, 2006.

5. Financial assurance must be continuously maintained for the duration of the facility in accord with the applicable statutes and rules.

6. This facility is permitted to receive the following waste types:

    a. “Construction or demolition” “waste or debris” as defined in NCGS 130A-290 (a)(4) means solid waste resulting solely from construction, remodeling, repair, or demolition operations on pavement, buildings, or other structures, but does not include inert debris, land-clearing debris or yard debris.

    b. “Inert debris” as defined in NCGS 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 NCGS 130-290(a)(15) means solid waste that is generated solely from land-clearing activities, such as stumps and tree trunks.

    d. “Asphalt” in accordance with NCGS 130A-294(m).

7. Those waste listed in 15A NCAC 13B .0542(e) must not be accepted for disposal including, but not limited to, municipal solid waste, liquid or industrial waste, and yard trash.

8. Regulated asbestos containing material as defined in 40 CRFR 61 must be managed in accordance with 40 CFR 61. Disposal of asbestos waste must be in accordance with 15A NCAC 13B .0542(c).

9. The permittee must actively employ a training and screening program at the facility prepared in accordance with Section .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 any inspections;

   c. Training of personnel to recognize hazardous, liquid, and other excluded waste types; and

   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.

10. All sedimentation/erosion control activities must be conducted in accordance with the Sedimentation Control Law NCGS 113A-50, et seq., and rules promulgated there under at 15A NCAC 4.

Operational Conditions for the C&DLF

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; or

    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 NCGS 130A-309.25.

    a. A responsible individual certified in landfill operations must be on-site during all operating hours of the facility at all times while open for public use to ensure compliance with operational requirements.

b. All pertinent landfill-operating personnel must receive training and supervision necessary to properly operate the C&D landfill unit in accordance with G.S. 130A-309.25 and addressed by memorandum dated November 29, 2000.

13. A 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&D unit 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; and

c. Surface water, ground water, and explosive gas monitoring.

Operational Conditions for the C&D Waste Reclamation Pad

14. Construction waste placed on the reclamation pad must be sorted each operating day, and no waste shall remain on the pad after operating hours unless covered by tarp to prevent leaching by rainfall.

a. Only an amount of waste sufficient to begin sorting operations the next day may be left on the reclamation pad.

b. In the event the sorting process is not operational, then waste may not be deposited on the reclamation pad and must be diverted directly to the landfill unit.

c. Except for wood, concrete and aggregate, recoverable materials must be placed in containers. Recovered materials placed in containers must be removed from the site once the container is full. A limit of approximately 150 cubic yards of wood may be stockpiled at any time.

d. Non-recyclable materials must be securely placed in containers or trucks, and disposed in the on- site C&DLF at the end of the operating day.

15. If demolition waste is to be sorted and recycled, then an asbestos screening plan must be submitted to the Division of Epidemiology of the Department of Health and Human Services for approval and the approved plan forwarded to the Section for inclusion in the operations plan for the facility. Otherwise, asbestos containing material or material suspected to contain asbestos must not be placed on the reclamation pad.

16. Control measures must be utilized to minimize and eliminate visible dust emissions and blowing litter emanating from materials on the reclamation pad.

a. Fugitive dust emissions are prohibited.

b. Windblown materials must be collected at the end of the day and no material may be allowed to leave the facility boundary.

17. Appropriately sized containers for receipt of sorted wastes materials must be on-site when waste is placed on the reclamation pad for sorting.

18. Waste must not be placed on the reclamation pad during inclement weather unless run-off control measures are installed. Run-off from the reclamation pad must be collected and properly disposed.

19. Documentation of delivery of all recovered material to valid end-users, processors, or recyclers must be maintained in the facility operating record.

20. Material processing, shredding and grinding operations shall only occur in compliance with any local ordinance or special use permit.

Monitoring and Reporting Requirements

21. The following are groundwater monitoring requirements for the C&D landfill facility:

    a. Ground-water and surface-water monitoring locations must be established as identified in the approved plans.

    b. The owner or operator must sample the monitoring wells and surface water locations semi-annually or as otherwise directed in writing by the Section hydrogeologist.

    c. The permittee must obtain approval from the Section for the design, installation, and development of any monitoring well. Any modification to an approved plan must be reviewed and approved by the Section. Documentation must be placed in the operating record and provided to the Section.

22. 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.

23. The permittee must maintain a record of the amount of solid waste received at the C&DLF compiled on a monthly basis. Scales must be used to weigh the amount of waste received.

24. On or before August 1 of each year, 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 and landfilled 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 the volume utilized in the C&D cells must be performed during the first or second quarter of the calendar year. The date and volumes in cubic yards must be included in the report.

d. The amount of C&D waste in tons from scale records disposed in landfill cells since February 10, 2004, 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 must be included in the report..

f. The completed report must be forwarded to the 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 at the facility. Documentation that a copy of the report has been forwarded to the county managers must be sent to the Environmental Senior Specialist by the date due on the prescribed annual facility report form.

- End of Operating Permit Conditions-