



NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

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

MUNICIPAL SOLID WASTE LANDFILL FACILITY PERMIT

Permit No. 08-03

REPUBLIC SERVICES OF NORTH CAROLINA, LLC,
a wholly owned subsidiary of REPUBLIC SERVICES, INC.
d.b.a. EAST CAROLINA REGIONAL LANDFILL

is hereby issued a

PERMIT TO OPERATE
MUNICIPAL SOLID WASTE LANDFILL FACILITY
PHASE IV

Located north of the intersection of Republican and Harmon Roads, south of Aulander, Bertie 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.

Edward F. Mussler, III, P.E.,
Permitting Branch Supervisor

Solid Waste Section

ATTACHMENT 1

PART I: PERMITTING HISTORY

Issuance	Date	Doc. ID No.
Original Issue (PTC)	August 6, 1993	
Original Issue (PTO)	October 8, 1993	
Modification (PTO)	December 2, 1994	
Amendment (PTO)	April 18, 1997	
Version II (PTO)	November 8, 2000	
Modification -PTO –Sludge Solidification	June 3, 2003	
PTO - Cell 10	September 23, 2003	
PTO- Modification	February 19, 2004	
PTO & PTC - New Rate & Size	June 17, 2005	
PTC - Cells 11 and 12	July 14, 2005	
PTO - Cell 11A – Lower End	March 28, 2006	0209
PTO - Cell 11B	June 15, 2006	0241
PTO - Cell 12	June 17, 2008	4886
PTC - Phase 5- Cells 13 & 14	February 9, 2009	6628
PTO - Cell 12 Renewal	June 16, 2011	13592

PART II: MUNICIPAL SOLID WASTE LANDFILL DOCUMENTS

1. *Technical Specification for Alternative Protective Cover, Construction of Cell No. 10, East Carolina Regional MSW Landfill, Bertie County, North Carolina.* Prepared for: Republic Services of North Carolina, LLC. Prepared by: Hodges, Harbin, Newberry & Tribble, Inc., Macon, GA. November 2002. Includes revised Sheets 2 and 4 of 7, PTC Drawings.
2. *Construction Quality Assurance Report. Cell No. 10, East Carolina Regional MSW Landfill, Bertie County, North Carolina.* Prepared for: Hodges, Harbin, Newberry & Tribble, Inc., Macon, GA. Prepared by: Bunnell-Lammons Engineering, Inc. Greenville, SC. August 2, 2003 as amended through September 12, 2003. Volumes 1 – 3. BLE Project Number J03-1001-41.

3. *Permit to Construct, Expanded East Carolina Regional MSW Landfill, Bertie County, North Carolina.* Prepared for: Republic Services of North Carolina, LLC. Prepared by: Hodges, Harbin, Newberry and Tribble, Inc. Macon, GA. April 2004.
4. *Articles of Merger of East Carolina Environmental, Inc. and Upper Piedmont Environmental, Inc. into Republic Services of North Carolina, LLC.* Filed April 24, pages, June 2, 2005.
5. *Construction Quality Assurance Report. Cell No. 11 Lower End, East Carolina Regional MSW Landfill, Bertie County, North Carolina.* Prepared for: Hodges, Harbin, Newberry & Tribble, Inc., Macon, GA. Prepared by: Bunnell-Lammons Engineering, Inc. Greenville, SC. November 29, 2005 as amended through March 15, 2006. BLE Project Number J05-1001-52.
6. *Construction Quality Assurance Report. Cell No. 11 Upper End, East Carolina Regional MSW Landfill, Bertie County, North Carolina.* Prepared for: Hodges, Harbin, Newberry & Tribble, Inc., Macon, GA. Prepared by: Bunnell-Lammons Engineering, Inc. Greenville, SC. May 18, 2006. BLE Project Number J06-1001-55. DIN 0244
7. *Construction Quality Assurance Report. Construction of Cell No. 12, East Carolina Regional MSW Landfill, Bertie County, North Carolina.* Prepared for: Hodges, Harbin, Newberry & Tribble, Inc., Macon, GA. Prepared by: Bunnell-Lammons Engineering, Inc. Greenville, SC. April 29, 2008, revised on June 02, 2008. BLE Project Number J07-1001-58. DIN5315.
8. *Conceptual Design (Facility Plan Revision of Phases 5, 6 and 7), Expanded East Carolina Regional MSW Landfill, Bertie County, North Carolina.* Prepared for Republic Services of North Carolina, LLC. January 2004, Revised January 2009. Prepared by Hodges, Harbin, Newberry and Tribble, Inc. Macon, Ga. January 2009. DIN 6629.
9. *Updated Facility Plan Sheet for East Carolina Regional Landfill,* Prepared by Hodges, Harbin, Newberry and Tribble, Inc. for Republic Services of NC LLC. September 30, 2010. DIN 12048.
10. *Permit to Operate 5-Year Renewal Request, East Carolina Regional Landfill, Facility Permit No. 08-03.* Prepared by Hodges, Harbin, Newberry and Tribble, Inc. Macon, Ga. January 21, 2011, DIN 12784. Revised April 15, 2011, DIN 14087.

PART III: MISCELLANEOUS TREATMENT AND PROCESSING FACILITY DOCUMENTS

1. *Expanded East Carolina Regional MSW Landfill Facility Plan, Waste Solidification Process Modification, Republic Services of North Carolina, LLC, Bertie County, North Carolina.* Prepared for: Republic Services of North Carolina, LLC. Prepared by: Hodges, Harbin, Newberry, and Tribble, Inc. March 27, 2003.

PART IV: PROPERTIES APPROVED FOR THE SOLID WASTE FACILITY

Description	Deed Book	Page No.	Acreage	Grantor
Addington	704	315	469.10	Addington Environmental, Inc
Powell	705	49	1.28	Powell
Cherry	716	677	100.43	Cherry
Weyerhauser	725	655	50.00	Weyerhauser
Smallwood	706	898	41.78	Smallwood
Articles of Merger	840	853	n/a	East Carolina Environmental

Total Site Acreage = 662.59 Acres

PART V: GENERAL PERMIT 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 February 9, 2014. 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. The permit to operate shall expire on June 16, 2016.
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 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 must 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 Attachments 1 and 3, "List of Documents for 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 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 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 CONDITIONS *Not Applicable*

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT SPECIFIC CONDITIONS

Not Applicable

- End of Section -

ATTACHMENT 3
CONDITIONS OF PERMIT TO OPERATE

PART I: GENERAL FACILITY CONDITIONS

1. This permit approves the continued operation of Phase IV, Cell 12, and Phases I, II, III, IV (Cells 1 through 11), as well as the on-site environmental management and protection facilities as describe in the approved plans. Future Phases V - VII have not been approved for operation.
2. The total facility has an approved gross volume of approximately 24,200,000 cubic yards consistent with the approved final contours. Gross volume must be calculated as the volume between the top of the protective cover and the top of the final cover. Actual waste disposal capacity may vary depending upon waste compaction and amount and type of operational cover.

MSW Unit	Acreage	Gross Capacity (Cu. Yds.)	Status
Phase 1 – Cells 3, 4, 5 and 6	27.8	2,140,000	Operational
Phase 2 – Cells 7 and 8	22.2	2,114,000	Operational
Phase 3 – Cells 9 and 10	21.3	4,013,000	Operational
Phase 4 – Cells 11 and 12	24.8	5,200,000	Operational
Phase 5 – Cells 13 and 14	24.6	3,854,000	Future
Phase 6 – Cells 15 and 16	19.6	4,129,000	Future
Phase 7 – Cells 17	8.5	2,750,000	Future
Totals	148.8	24,200,000	

3. This facility is permitted for an average annual disposal rate of approximately 584,000 tons. This corresponds to an approximate disposal rate of 1600 tons per day based on 365 operating days per year, with a maximum variance of 10% facility total within any one annual reporting year as set forth in Document 9, Part II, Attachment 1.
4. The MSW landfill is permitted to receive solid waste generated by and in counties of North Carolina, consistent with local government waste management plans, local government approval and contract and franchise agreement, and as defined in N.C.G.S. §130A-290(a)(35), except where prohibited by North Carolina General Statutes Article 9 of Chapter 130A, and rules adopted by the Commission for Health Services.

5. The owner or operator of the landfill facility must not knowingly dispose of any type or form of municipal solid waste that is generated within the boundaries of a unit of local government that by ordinance:
 - a. Prohibits generators or collectors of municipal solid waste from disposing of that type or form of municipal solid waste.
 - b. Requires generators or collectors of municipal solid waste to recycle that type or form of municipal solid waste.
6. The facility operator must have completed 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 at all times during all operating hours of the facility that it is 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 landfill units in accordance with G.S. 130A-309.25 and addressed by memorandum dated November 29, 2000.

PART II: MUNICIPAL LANDFILL UNIT SPECIFIC CONDITIONS

MONITORING AND REPORTING

7. Ground water monitoring at this unit must be as prescribed by the appropriate requirements of 15A NCAC 13B .1630-.1637 and the approved monitoring plan.
8. A readily accessible unobstructed path must be cleared and maintained so that four-wheel drive vehicles may access monitoring well locations at all times.
9. A field log book which details all development, sampling, repair, and all other pertinent activities associated with each monitoring well and all sampling activities associated with each surface water and leachate sampling location must be kept as part of the permanent facility record.
10. Records of all ground-water, surface water and leachate analytical data must be kept as part of the permanent facility record.
11. Landfill gas monitoring wells must be sampled for explosive gases at least quarterly and according to specifications outlined in 15A NCAC 13B .544(d), entitled "Gas Control Plan," and current policies and guidelines of the Section in effect at the time of sampling.

12. Ground water monitoring wells and surface water sampling locations must be sampled for Appendix I constituents at least semi-annually according to the specifications outlined in the approved water quality monitoring plan and the current policies and guidelines of the Section in effect at the time of sampling.
13. Reports of the analytical data for each water quality sampling event must be submitted to the Section within 60 days of the respective sampling event. Analytical data must be submitted in a manner prescribed by the Section.
14. (Intentionally blank)
15. Untreated leachate must be sampled and analyzed at least semi-annually concurrently with the ground and surface water sampling. The leachate must be analyzed for all Appendix I constituents, pH, specific conductance, BOD and COD, phosphate, nitrate, and sulfate. Test results must be submitted to the Section along with ground and surface water test results. In the event leachate is recirculated, additional leachate sampling may be required.
16. Ground water quality at this facility is subject to the "Classifications and Water Quality Standards Applicable to the Groundwater of North Carolina", 15A NCAC 2L. This includes, but is not limited to, provisions for detection monitoring, assessment, and corrective action.
17. On or before August 1 annually, the Permittee must submit an annual facility report to the Solid Waste 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 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, and
 - v) By diversion to alternative management facilities.
 - c. A measurement of the volume utilized in the MSW cells must be performed during the first or second quarter of the calendar year. The date and volume, in cubic yards, must be included in the report.
 - d. The amount of waste, in tons, from scale records, disposed in the MSW cells since October 8, 1993 through the date of the annual volume survey must be included in the report.

- e. The completed report must be forwarded to the Regional Waste Management Specialist for the facility by the date due on the prescribed annual facility report form.
 - f. A copy of the completed report must be forwarded to the 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 Regional Waste Management Specialist by the date due on the prescribed annual facility report form.
18. The facility must maintain records for all solid waste materials accepted as alternative cover material and used as alternate daily cover. The records must include: the date of receipt, weight of material, general description of the material, identity of the generator and transporter, and county of origin. Such records must be made available to the Solid Waste Section upon request.

OPERATIONAL CONDITIONS

19. The use of tarps, posi-shell and petroleum contaminated soil as alternative daily cover is approved. Their use must be consistent with prior approved plans. The use of different alternative daily cover requires approval, prior to implementation, by the Solid Waste Section. Requests for alternative daily cover approval must include a plan detailing the comprehensive use and a demonstration of the effectiveness of the alternative daily 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 found in Attachments 1, Part II.
20. The use of leachate recirculation as a leachate management tool is approved. Leachate recirculation will be conducted according to the approved plan in Attachment 1, Part II.
21. The landfill facility is permitted to co-dispose of wastewater treatment sludge generated within the facility's approved service area, subject to the terms and procedures of the approved plan.
22. Closure or partial closure of any MSW landfill unit must be in accordance with the Closure Plans described in the approved plans and 15A NCAC 13B .1629. Final Closure Plans must be submitted to the Division at least 90 days prior to implementation. Closure and Post-closure plans, including financial instruments must be updated annually pursuant to 15A NCAC 13B .1628.

PART III: MISCELLANEOUS SOLID WASTE MANAGEMENT SPECIFIC CONDITIONS

General Conditions

1. 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.
2. 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.
3. 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.
4. 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.
5. Effective vector control measures shall be applied as necessary to control flies, rodents, insects, or vermin.

Liquid and Sludge Solidification Processing Unit

6. Operations must be in accordance with Attachment 1, Part III and the following conditions.
7. Approval for Operation shall be for a one-year period beginning March 28, 2006. The solidification process shall be reviewed on an annual basis. The facility must meet any update to the rules or policies of the Section in place at the time of the renewal. The operational approval shall automatically be renewed unless the owner is notified in writing by the Section.
8. Records of the following, at a minimum, must be maintained: waste material description, solidification agent(s) utilized, waste determination records, tons of waste and solidification agents disposed, date and time of receipt of liquid or sludge waste, date and time of solidification. Records must be kept in the facility operating record and made available to the Section on request.
9. Liquid and sludge waste must be processed within 24 hours of receipt. Drums may be stored for 24 hours before processing. Liquid waste must not be stored, unprocessed, over the weekend.

10. Bulking agents must be stored on an impervious surface. Dust and leachate formation must be prevented.
11. Petroleum contaminated soils must not be used as bulking agents.
12. All liquids, sludge and bulking agents must be weighed and reported as solid waste for purposes of the Solid Waste Annual Report reporting requirements.
13. Spills must be cleaned up immediately.
14. No odors, vectors or nuisances are allowed in the processing area.
15. Spills that are not to the impervious surface, spills that are not cleaned in a timely manner, vector, odors, incomplete records, accepting wastes or bulking agents that the facility is not permitted to receive, shall be among the minimum reasons that the processing may be ordered by the facility waste management specialist to cease.

Materials Mulching and Grinding

16. The facility is permitted to operate a treatment and processing facility as defined in 15A NCAC 13B, Rule .0101(49).
17. The facility is permitted to receive land clearing waste as defined in 15A NCAC 13B, Rule .0101(23).
18. The facility is permitted to receive wooden pallets constructed of unpainted and untreated natural wood.
19. 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.
20. The facility must manage the treatment and processing according to the Operation Plan included in Attachment 1, Part II: "List of Documents for the Approved Plan". This document is included in the approved plan. Any revisions to the approved plan shall be approved by the Section, prior to implementation.
21. At least 75 percent of the processed materials shall be removed for recycling or disposed in the facility MSWLF unit within one year of receipt.

Scrap Tire Collection Area

22. The facility is permitted to receive tires and scrap tires as defined in North Carolina General Statute Article 9, Chapter 130A-309.53(6) & (7).

23. Scrap tire collection areas shall be operated in accordance with the requirements of 15A NCAC 13B, Rule .1107.
24. The facility must manage tires according to the Operation Plan included in Attachment 1, Part II, "List of Documents for the Approved Plan". This document is included in the approved plan. Any revisions to the approved plan shall be approved by the North Carolina Division of Waste Management (DWM), Solid Waste Section, prior to implementation.

White Goods Area

25. The facility is permitted to receive white goods as defined in North Carolina General Statute Article 9, Chapter 130A-290(44).
26. The facility must manage white goods according to the Operation Plan included in Attachment 1, Part II "List of Documents for the Approved Plan". This document is included in the approved plan. Any revisions to the approved plan shall be approved by the North Carolina Division of Waste Management (DWM), Solid Waste Section, prior to implementation.
27. White goods collection areas shall provide for the proper removal of chlorofluorocarbon refrigerants.

Public Drop-off Area

28. The landfill unit shall conform to all operating requirements described in the approved plans, 15A NCAC 13B .1626, and the conditions specified herein.
29. Each received wastes must be temporarily stored in the designated containers in accordance with the waste types. A proper distance between waste containers and/or roll-off boxes must be maintained for inspection, firefighting, and container removal.

- End of Section -