

OHIO ENVIRONMENTAL PROTECTION AGENCY
PERMIT-TO-INSTALL

Application Number: 02-14796
Application Received: February 14, 2001
Permit Fee: \$80,000.00
Permit Fee Balance: \$79,600.00

Applicant: Republic Waste Services of Ohio II, LLC
Address: 3619 Gracemont Avenue S.W.
City, State, Zip: East Sparta, Ohio 44626

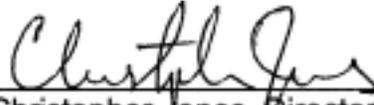
Name: Countywide Recycling and Disposal Facility
Location: Located 3,000 feet north of Gracemont Avenue, 500 feet east of I-77 and 3,000 feet west of Dueber Avenue in Stark County, Ohio.
PTI: Lateral and Vertical Expansion

Issuance Date: JUN - 2 2003

Effective Date: JUN - 2 2003

The above named entity is hereby issued a permit approval (permit-to-install) for the above described source pursuant to Chapter 3745-31 of the Ohio Administrative Code (OAC). Issuance of this permit approval (permit-to-install) does not constitute expressed or implied approval or agreement that, if constructed and/or modified in accordance with the plans, specifications, and/or information accompanying the permit application, the above described source of environmental pollutants will operate in compliance with applicable state and federal laws, rules, and regulations, and does not constitute expressed or implied assurances that if constructed and/or modified in accordance with those plans, specifications, and/or information accompanying the permit application, the above described source of environmental pollutants will be granted the necessary operating permits and/or licenses. This permit approval (permit-to-install) is issued subject to the attached conditions which are hereby incorporated and made a part hereof.

Ohio Environmental Protection Agency



Christopher Jones, Director

OHIO E.P.A.
JUN - 2 2003
FILED DIRECTOR'S JOURNAL

This document is hereby certified as a true and correct copy of the official document as filed in the records of the Ohio Environmental Protection Agency.

Zona & Clements
June 2, 03

PERMIT SUMMARY

This permit approval (PTI Number 02-14796) is an authorization to expand Countywide Recycling and Disposal Facility's (Countywide RDF) approved limits of waste. Specifically, the facility's owner – Republic Waste Services of Ohio II, LLC – proposes a 170-acre lateral and vertical expansion of the existing facility, adding approximately 70.3 million cubic yards of capacity.

The entire facility has been, and will continue to be, constructed with a composite liner system, a leachate collection system, a surface water management system, a ground water monitoring system, and an explosive gas monitoring system. This permit approval includes financial assurance for closure and 30 years of post-closure care. The authorized maximum daily waste receipt (AMDWR) will remain at 7,000 tons.

This summary is provided solely for informational purposes and does not constitute a part of, or otherwise affect, the attached permit-to-install.

PERMIT CONDITIONS

1. The director, or an authorized representative, may enter upon the premises of the above named applicant (permittee) at any reasonable time during construction and operation for the purpose of making inspections, conducting tests, or examining records or reports pertaining to the construction, modification, or installation of the above described source of environmental pollutants (municipal solid waste disposal facility).
2. The proposed source shall be constructed in strict accordance with the plans, specifications, and information submitted as part of the application for this permit to the director. There may be no deviation from the approved plans without the express, written approval of the Ohio Environmental Protection Agency (Ohio EPA). Any deviation from the approved plans or the permit conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio EPA if the proposed solid waste disposal facility is inadequate or cannot meet applicable standards.
3. Issuance of this permit approval does not relieve the applicant of the duty to comply with all applicable federal, state, and local laws, ordinances, and regulations.

4. In accordance with OAC Rule 3745-31-06(A), this permit approval shall terminate 18 months after its effective date if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. In accordance with OAC Rule 3745-31-06(C), this deadline may be extended by up to 12 months if application is made to the director no less than 60 days prior to the expiration of the 18-month period and the party shows just cause for any such extension.
5. This permit approval shall apply only to those facilities shown on the plans submitted as part of PTI Application Number 02-14796, received on February 14, 2001, with subsequent revisions received on July 18, 2001, February 21, 2002, and May 20, 2003.
6. This permit approval may be modified, or alternatively revoked and reissued, to comply with any revisions to OAC Chapters 3745-27 and 3745-31 applicable to this municipal solid waste disposal facility.
7. The owner or operator shall provide for the proper maintenance and operation of the municipal solid waste disposal facility in accordance with the provisions of OAC Chapter 3745-27.
8. Nothing in this permit approval shall be interpreted to release the permittee from responsibility under Chapters 3704, 3714, 3734, or 6111 of the Ohio Revised Code (ORC); under the Federal Clean Water Act, the Resource Conservation and Recovery Act, or the Comprehensive Environmental Response, Compensation, and Liability Act; or from other applicable laws for remedying conditions resulting from any release of contaminants to the environment.
9. This permit approval does not include approval for the acceptance of any hazardous or infectious waste, except for those excluded from hazardous or infectious waste regulation by ORC Chapter 3734.
10. This permit approval does not provide for the acceptance of any asbestos or asbestos-containing material that is subject to the provisions of NESHAP, 40 CFR Part 61, Subpart M. No such asbestos or asbestos-containing waste material may be accepted without first obtaining the necessary permits from Ohio EPA.
11. Ohio EPA's Northeast District Office (NEDO) and the Stark County Health Department shall be notified in writing of the construction starting date prior to the start of construction on each of the facility's phases so that construction of this facility can be

routinely inspected by Ohio EPA, NEDO and the Stark County Health Department before the phases are placed in operation.

12. The permittee shall obtain and test field samples, not remolded samples, of the soil material placed to satisfy the siting criterion of OAC Rule 3745-27-07(H)(2)(e) at a frequency of at least once per acre per lift. The laboratory permeability testing of the field samples shall demonstrate that the material was placed with a permeability not greater than 1×10^{-6} cm/sec. The soil material shall meet the following specifications:
 - a. Be classified as CL, SC, GC, CL-ML, or CH under the Unified Soil Classification System;
 - b. Be composed of particles of which at least 25 percent, by dry weight, pass through a No. 200 (75mm) sieve;
 - c. Be composed of particles of which a maximum 25 percent, by dry weight, do not pass through a No. 4 sieve; and
 - d. Have no particle greater than eight inches in diameter.

13. The permittee shall provide for the following inspections and facility maintenance:
 - a. The permittee shall provide for daily inspection of the disposal facility and completion of the daily inspection checklist and the municipal solid waste disposal facility daily log of operations. Written results of the inspections, including any corrective measures employed, shall be made available to Ohio EPA, NEDO or the Stark County Health Department upon request.
 - b. Surface water control structures, including sedimentation ponds, sedimentation pond discharge structures, pipes, ditches, and culverts, shall be inspected at least monthly for erosion, clogging, or failure, and prompt corrective action shall be taken if necessary. A log including inspection results, corrective measures, and the date and weather conditions during any water quality sampling shall be maintained and submitted to Ohio EPA, NEDO or the Stark County Health Department, upon request.
 - c. To ensure proper operation of sedimentation ponds, the ponds shall be cleaned out completely annually, or when the volume of the settled particles necessitates cleaning based either on inspection results or to maintain the storage volume required by OAC Rule 3745-27-08(C)(6)(d).

14. Not later than 60 days prior to the installation of scrap tires as a drainage layer in the initial construction of the newly authorized area, the permittee shall submit to Ohio EPA, NEDO a construction quality assurance/quality control plan which includes, at a minimum, the following:
 - a. Equipment specifications;
 - b. Procedures during tire shred deployment;
 - c. Procedures for test pit investigation;
 - d. Procedures for flexible membrane liner (FML) testing;
 - e. Procedures for test pit closure; and
 - f. A contingency plan for damage assessment and remediation if a puncture or significant damage to the FML is found.

15. If tire shreds are used as drainage material in the leachate collection system they shall be tested and installed as follows:
 - a. Prior to use the tire shreds shall be tested:
 - i. Once per 3,000 cubic yards for shred size, and
 - ii. Once per 10,000 cubic yards for hydraulic conductivity under at least 16,800 pounds per square foot (psf) of compression.
 - b. The results of the shred size and hydraulic conductivity testing shall be submitted to Ohio EPA, NEDO at least seven days prior to use of the tire shreds represented by the testing.
 - c. The protective geotextile under the tire shreds shall be sewn at each seam where geotextile panels meet. A polymeric thread of the same or similar durability as the geotextile fabric shall be used.
 - d. All loose wire, loose metal, whole tires, dirt clods, and other debris shall be removed from the tire shreds prior to placement in the landfill phase being constructed.

- e. The permittee, or an authorized representative, shall observe deployment of the tire shreds as they are placed upon the geotextile fabric. If wire or any other material is observed that could be reasonably expected to increase the risk of damage to the geotextile fabric or geosynthetic liner it shall be removed from contact with the geotextile fabric.
 - f. The geomembrane shall be inspected to ensure no damage has occurred to the liner by the placement and spreading of the tire shreds. At least one test pit per acre shall be hand dug through the tires. The test pits shall be large enough to ensure that at least one square yard of the geomembrane is exposed. The geotextile shall be carefully cut and peeled back in order to expose the geomembrane. Upon completion of the inspection, the geotextile shall be repaired in accordance with Condition Number 15.c. of this permit approval.
 - g. If punctures or other significant damage resulting from the use of tire shreds for drainage layer are observed in the geomembrane, the owner/operator shall notify Ohio EPA, NEDO of the damage within 24 hours. The owner/operator shall investigate to determine the extent of the damage and repair or replace all damaged geomembrane in the phase.
 - h. The construction certification report shall include the locations of the test pits, the findings of the inspection of the geomembrane, a description of procedures taken for remediation of damaged geomembrane, and certification of replacement of the drainage layer.
 - i. On slopes, tire shreds shall not be placed from an up-slope to down-slope direction. Tire shreds shall only be placed from the toe of the slope upwards. No equipment shall travel directly on the tire shreds on the sideslope once tire shred placement is complete.
 - j. Ohio EPA, NEDO and the Stark County Health Department shall be notified at least five working days prior to the start of tire shred placement.
16. The permittee shall perform the following activities during construction and operation of the facility in accordance with the cited provisions of OAC Chapter 3745-27:
- a. The test pad required by OAC Rule 3745-27-08(C)(1)(m) shall be constructed and a report containing the test results shall be submitted to Ohio EPA, NEDO no later than 14 days prior to the initial construction date of the landfill component which the test pad models.

- b. The earthen material tests required by OAC Rule 3745-27-08(D) shall be performed and the results submitted to Ohio EPA, NEDO no later than seven days prior to the intended use of the material in construction.
 - c. The construction certification report required by OAC Rule 3745-27-08(H) shall be submitted to Ohio EPA, NEDO and the Stark County Health Department no later than 45 days prior to the anticipated date of waste receipt in the newly constructed phases.
- 17. The permittee shall submit the following to Ohio EPA:
 - a. At least 30 days prior to construction of the liner system for each cell, detailed construction plans showing the horizontal limits and top and bottom elevations of the recompacted soil liner; the horizontal limits of geosynthetic clay liner, if used; the top elevation of the drainage layer; pipe inverts; and layout of the leachate management system; and,
 - b. At least seven days prior to construction of the liner system for each cell, a narrative discussion of the potential for hydrostatic uplift and, if necessary, a discussion of any proposed ground water control structures.
- 18. This permit approval does not authorize leachate recirculation in any disposal areas newly authorized by this permit. Prior to introduction of recirculated leachate in any disposal areas newly authorized by this permit, written authorization must be obtained from Ohio EPA.
- 19. Prior to waste acceptance in any disposal area newly authorized by this permit approval, the permittee shall execute and fund a financial assurance instrument meeting the requirements of OAC Rules 3745-27-15, 3745-27-16, and 3745-27-17.
- 20. At least 45 days prior to abandonment of any existing or future underdrain, the permittee shall notify Ohio EPA, NEDO in writing.
- 21. Within 60 days of the effective date of this permit, the permittee shall revise the Ground Water Sampling and Analysis Plan such that provisions are included to sample the discharge from the existing southwestern underdrain and any other existing and/or future ground water control structures identified in the plans submitted in compliance with condition number 21, above. The sampling and analysis plan must be revised to include:

- a. Sampling of ground water control structures semi-annually, concurrently with the detection monitoring system, and analyzing for the following parameters with the respective detection limits:
 - Ammonia, 0.02 mg/L
 - Sodium, 0.5 mg/L
 - Chloride, 5.0 mg/L
 - COD, 10 mg/L
 - Temperature (Field)
 - pH (Field)
 - Specific Conductance (Field)
 - b. Appropriate sampling protocol, including but not limited to: sample acquisition, analytical laboratory methodology, sample containers, handling, preservation, and holding times.
 - c. An explanation of data evaluation, including but not limited to: that the analytical results for subsequent underdrain samples will be evaluated for each parameter using concentration trend plots. Any anomalous results or significantly increasing trends shall be evaluated to determine the cause of the changes. The laboratory data reports and trend plots shall be submitted concurrently with the ground water monitoring data reports.
22. In accordance with OAC Rule 3745-27-10(B)(5), the permittee shall, at least annually, evaluate the ground water surface elevation data to determine whether the requirements of OAC Rule 3745-27-10(B) for locating the monitoring wells continue to be satisfied. If the evaluation shows that OAC Rule 3745-27-10(B) is no longer satisfied, the permittee shall immediately revise the number, location, and/or depth of the monitoring wells to bring the ground water monitoring system into compliance with this requirement. Ohio EPA may require revisions to the monitoring well installation schedule and require installation of wells prior to the schedule established in the PTI application.
 23. The permittee shall comply with the sediment discharge plan in Section 3.11 of the permit application such that the unvegetated solid waste area will not exceed 88 acres, unless otherwise authorized by Ohio EPA, and shall discharge stormwater from sedimentation ponds in compliance with NPDES Permit Number 3IN00139*FD, effective September 1, 2002, unless otherwise approved by the director
 24. Pursuant to ORC Sections 3745.11(Q) and (V), payment of the solid waste permit-to-install fee balance, in the amount of \$79,600.00 payable to "Treasurer, State of Ohio",

shall be submitted to Ohio EPA, Attn: Fiscal Administration, P.O. Box 1049, Columbus, Ohio 43216-1049. The fee balance shall be submitted within 30 days of the effective date of this permit approval. Failure to timely submit the required permit fee balance will result in assessment of late penalties in accordance with ORC Sections 3745.11(Q) and (V).

END OF PERMIT CONDITIONS