



State of Ohio Environmental Protection Agency

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Mr. Brian Higgins, Director of Public Service  
The City of Parma Service Department  
6611 Ridge Road  
Parma, Ohio 44129-5593

**RE: Parma Landfill, Cuyahoga County  
Ohio Administrative Code (OAC) Rule 3745-27-13 Authorization**

Dear Mr. Higgins:

The Ohio Environmental Protection Agency (Ohio EPA), Division of Solid and Infectious Waste Management (DSIWM), Northeast District Office (NEDO) received a request titled Ohio Environmental Protection Agency OAC 3745-27-13 Authorization Request for the City of Parma Closed Sanitary Landfill, Parma (Cuyahoga County), Ohio, originally dated March 23, 2003, with revisions dated September 1, 2004, to construct a service road at the closed Parma Sanitary Landfill (Facility) located in Cuyahoga County. The request was submitted by Clayton Group Services, on behalf of the City of Parma (Parma), pursuant to OAC Rule 3745-27-13.

OAC Rule 3745-13 requires authorization from the director of Ohio EPA before engaging in filling, grading, excavating, building, drilling, or mining on land where a solid waste facility was operated. Specifically, Parma is proposing to perform filling, grading, excavating, and building activities in order to construct a service road on the southern side of the landfill area, sloping down toward West Creek.

Based upon a review of the submitted request and subsequent revisions, Ohio EPA has determined, pursuant to OAC Rule 3745-27-13, that the proposed activities, if conducted in accordance with the following conditions, will not result in a violation of applicable laws or regulations, will not create a nuisance, and are unlikely to adversely affect the public safety or health or the environment. Therefore, Parma is hereby authorized to perform the activities outlined in this letter in accordance with the submitted and approved plans, specifications, and information.

As part of this authorization, Parma is subject to the following conditions:

Bob Taft, Governor  
Jennette Bradley, Lieutenant Governor  
Christopher Jones, Director

## CONDITIONS

1. This approval grants authorization to perform activities at the Facility in accordance with the request titled Ohio Environmental Protection Agency OAC 3745-27-13 Authorization Request for the City of Parma Closed Sanitary Landfill, Parma (Cuyahoga County), Ohio, originally dated March 23, 2003, with revisions dated September 1, 2004. All activities shall be conducted in strict accordance with the plans, specifications, and information submitted as part of the request. There may be no deviation from the approved plans without prior written authorization of the Ohio EPA. Any future activities at the Facility may require additional Ohio EPA approval.
2. Not later than seven (7) days after the effective date of this approval, Parma shall submit a written notice of intent, pursuant to the Ohio EPA general storm water NPDES permit program for construction activities, to Dan Bogoevski at Ohio EPA, Division of Surface Water, 2110 East Aurora Road, Twinsburg, Ohio 44087.
3. Not later than seven (7) days after the effective date of this approval, Parma shall contact the Army Corps of Engineers, in writing, regarding additional permits and/or authorizations that may need to be obtained prior to constructing the proposed service road along West Creek.
4. Not later than seven (7) days after the effective date of this approval, Parma shall develop and implement a plan addressing on-site storm water control using best management practices and standards as specified in the Ohio Department of Natural Resources manual titled Rainwater and Land Development.
5. Parma shall construct the side slopes of the proposed service road at an angle that shall not exceed a slope of 3 horizontal to 1 vertical and in accordance with the submitted and approved request and subsequent revisions.
6. Parma shall construct the proposed service road to include a geotextile fabric base between the clay layer and the stone layer and in accordance with the submitted and approved request and subsequent revisions.
7. Parma shall construct the side berms along both sides of the service road, and the berms shall be mulched and seeded not later than seven (7) days after completion of work. Parma shall build a small mound, along the top of the service road, that diverts storm water from flowing down along the berms.
8. Parma shall install a water bar across the service road to divert run-off away from West

Creek. Runoff shall be directed to a sediment trap prior to discharging into West Creek.

9. Parma shall manage soil stockpiles to minimize erosion.
10. Parma shall stabilize backfilling of the slope across from the service road to eliminate soil loss.
11. All on-site activities shall be accomplished in compliance with all applicable state and federal laws and regulations pertaining to environmental protection, including but not limited to, the control of air pollution, leachate, surface water run-on and run-off, and protection of ground water.
12. All activities undertaken shall not create a nuisance and shall not adversely affect public safety or health or the environment.
13. Any waste encountered during the proposed construction activities shall:
  - A. be placed back in the closed landfill; or
  - B. if designated to be disposed of off site, be containerized and securely stored until the materials are properly characterized and disposed of in accordance with Ohio Revised Code (ORC) Chapter 3734 and the regulations promulgated thereunder.

Prior to placing waste back in the closed landfill, the landfill cap shall be removed. Any portions of the landfill where the cap is removed by the aforementioned activities shall be recapped in accordance with the specifications detailed in Condition Number 14.

14. Any portions of the landfill where the cap is removed by activities authorized by this approval shall have the final cap re-established in accordance with the following specifications:
  - A. Material Specifications:
    1. 100% of the material particles shall pass a 10" screen, with no more than two (2) particles from a 50 cubic foot sample retained on a 6" screen;

2. At least 95% of the material, by weight, shall pass a 3" screen;
3. At least 70% of the material, by weight, shall pass the #10 sieve;
4. The material that passes the #10 sieve (sand, silt, and clay fractions) shall be classified using the USDA textural classification chart as loam, sandy loam, silty loam, clay loam, silty clay, or sandy clay, or an acceptable alternative soil type.

B. Construction Specifications:

1. The material shall be compacted to at least 95% of the maximum Standard Proctor Density (ASTM D-698) or 90% of the maximum Modified Proctor Density (ASTM D-1557).
2. The material shall be compacted using loose lifts, no greater than eight (8) inches thick prior to compaction.

C. Testing Specifications:

1. The suitability of the soils shall be determined prior to their intended use in cap construction. The following tests shall be performed on representative soil samples at least once for every 3,000 cubic yards of material intended for use.
  - a. Sieve and hydrometer testing (ASTM D-422) for particle size gradation; and
  - b. Moisture/density relationship using either Standard Proctor (ASTM D-698) or Modified Proctor (ASTM D-1557) method.

Prior to testing, the samples shall be screened to remove any particles larger than three (3) inches. Written results of this testing shall be submitted to Ohio EPA, NEDO not later than seven (7) days prior to its intended use in cap construction.

2. During construction of the cap, compaction shall be monitored to ensure that the proper specifications are met. This can be accomplished by a number of methods, including nuclear densimeter (ASTM D-2922), sand cone (ASTM D-1556), and rubber balloon (ASTM D-2167). The nuclear densimeter test, if used, shall be performed at least five (5) times per

acre per lift. The sand cone or rubber balloon methods shall be performed at least three times per acre per lift. The sampling rate for other methods must be determined on an individual basis with concurrence from Ohio EPA.

3. Upon completion of construction, the permeability of the cap shall be

determined through either field permeability testing (ASTM D-6391: Boutwell two-stage permeameter, ASTM D-5093: SDRI) or through laboratory testing of cap samples brought to the lab for analysis (ASTM D-5084: Shelby tubes, soil blocks). The permeability requirements for each type of permeability determination are as follows:

- a. For field permeability tests (ASTM D-6391, ASTM D-5093), the required permeability of the cap is  $1 \times 10^{-5}$  cm/sec.
- b. For laboratory permeability tests (ASTM D-5084: Shelby tubes, soil blocks), the required permeability of the cap is  $1 \times 10^{-6}$  cm/sec.

4. Any penetrations into the cap layer resulting from either compaction or permeability testing shall be repaired using bentonite or a bentonite/soil mixture

15. All liquids, semi-solids, industrial wastes, and other wastes regulated by ORC Chapter 6111 that are generated during the proposed activities shall be containerized and securely stored until these materials are properly characterized and disposed in accordance with ORC Chapter 6111 and regulations promulgated thereunder.

16. Nothing in this letter shall be construed to authorize any waiver from any requirements of applicable state solid waste laws or regulations. This authorization shall not be interpreted to release Parma or others from responsibility under Ohio Revised Code (ORC) Chapters 3704, 3714, 3734, or 6111; 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 requirements for remedying conditions resulting from any release of contaminants to the environment.

You are hereby notified that this action of the director of Ohio EPA is final and may be appealed to the Environmental Review Appeals Commission (Commission) pursuant to ORC

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Section 3745.04. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Commission within thirty (30) days after notice of the director's action. A copy of the appeal must be served on the director within three (3) days of filing with the Commission. An appeal may be filed with the Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street  
Room 222  
Columbus, Ohio 43215

If you have any questions, regarding this authorization, please contact Colum McKenna of Ohio EPA, NEDO at (330) 963-1268.

Sincerely,

Christopher Jones  
Director

CJ/CM/MM/sw

cc: Murat Tukel, DSIWM-NEDO  
Mark Bergman, DSW-NEDO  
Scott Hester, DSIWM-CO  
Matt Johnson, Cuyahoga County Board of Health  
Richard Carman, Clayton Group Services