



State of Ohio Environmental Protection Agency

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Attention: William E. Murphie, PPPO Manager

**RE: DOE-PORTS, X-735 Industrial Solid Waste Landfill, Pike County  
Corrective Measures Plan - Selection of Corrective Measure**

Dear Mr. Murphie:

On October 22, 2007, the Ohio Environmental Protection Agency (Ohio EPA) received a revised Corrective Measures Plan (CMP) from the Department of Energy (DOE) for the closed DOE-PORTS, X-735 Industrial Solid Waste Landfill (Facility) titled, "*Corrective Measures at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio.*". This document was submitted to Ohio EPA in accordance with Ohio Administrative Code (OAC) Rule 3745-29-10(F), as effective June 1, 1994.

The Facility is a part of the DOE-Portsmouth Gaseous Diffusion Plant (PORTS) and is located in Seal and Scioto Townships, Pike County, Ohio. The Facility is owned and operated by DOE. The Facility operated as an industrial solid waste trench landfill from 1981 through 1997. Closure of the approximately 18-acre landfill was completed in 1998 and was certified complete on November 6, 1998. Elements of the closure included a clay cap, including a geocomposite clay liner (GCL), surface water controls, an explosive gas venting system, a ground water monitoring detection system, and 30 years of post-closure care.

In June 2005, DOE entered the Facility into assessment monitoring in accordance with OAC Rule 3745-29-10(E), as effective June 1, 1994, after statistically significant changes in ground water contaminants were identified within the Gallia sand and gravel formation (Gallia). Eight constituents of concern were identified for assessment: alkalinity, antimony, cobalt, mercury, nickel, sodium, sulfate, and total dissolved solids (TDS). The ground water quality assessment report subsequently identified six constituents of concern to be addressed in the CMP: alkalinity, cobalt, mercury, nickel, sodium, and TDS. Chloride and sulfate, being indicator parameters, were added to eliminate the need for dual detection monitoring and corrective measures monitoring programs.

Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director

Ohio EPA has reviewed the CMP and has determined the CMP fulfills the requirements of OAC Rule 3745-29-10(F), as effective June 1, 1994. Therefore, pursuant to OAC Rule 3745-29-10(F)(10), as effective June 1, 1994, I hereby select the following, which are the recommended actions outlined in Section 5 (Page 21) of the CMP, as the corrective measures that are to be implemented at the Facility:

- Continued semi-annual detection and corrective measures ground water monitoring at the landfill as specified within the plan;
- Continued operation and maintenance of the leachate drain and the leachate collection system in accordance with the facility's approved Integrated Surveillance and Maintenance Plan (ISMP); and
- Continued maintenance of the landfill cap system and the gas venting system in accordance with the facility's approved ISMP.

DOE shall implement the CMP and the Corrective Measures Monitoring Plan for groundwater monitoring wells at the Facility and shall comply with the following conditions:

#### **Conditions**

1. DOE shall implement the semi-annual detection and corrective measures ground water monitoring at the landfill as specified within the plan for the Gallia. The Berea formation shall continue to be monitored in accordance with the approved Integrated Ground Water Monitoring Plan (IGWMP);
2. DOE shall continue to operate and maintain the leachate drain and the leachate collection system in accordance with the facility's approved ISMP; and
3. DOE shall continue to maintain the landfill cap system and the gas venting system in accordance with the facility's approved ISMP.

#### **End of Conditions**

You are hereby notified that this action of the Director of Ohio EPA (Director) is final and may be appealed to the Environmental Review Appeals Commission (Commission) pursuant to Ohio Revised Code 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal

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shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. 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 or require further assistance, please contact Mr. Daniel Bergert of Ohio EPA's Southeast District Office at 740-380-5438.

Sincerely,

Chris Korleski  
Director

cc: Ms. Sandy Colegrove, Pike County Health Department  
Mr. Scott Hester, DSIWM, CO  
Mr. Steve Rine, DSIWM, SEDO  
Mr. Paul Kreitz, LATA/Parallax Portsmouth (LPP) LLC

CK/DB/jg