



State of Ohio Environmental Protection Agency

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Daniel Titus
District Environmental Manager
Browning-Ferris Industries of Ohio, Inc.
Lorain County II Landfill Office
43502 Oberlin-Elyria Road
Oberlin, Ohio 44074

**RE: WILLOWCREEK SANITARY LANDFILL
OHIO ADMINISTRATIVE CODE (OAC) RULE 3745-27-10(D)(7)(c)(ii)**

Dear Mr. Titus:

On January 17, 2006, the Ohio Environmental Protection Agency (Ohio EPA), Division of Solid and Infectious Waste Management (DSIWM), Northeast District Office (NEDO) received a false statistical indication demonstration report dated January 17, 2006, for the Willowcreek Sanitary Landfill (Facility) located in Portage County. This document was submitted by Herst & Associates, Inc., on the behalf of BFIO Willowcreek Landfill and Allied Waste, Inc., and contains the ground water sampling results and the statistical analysis for the Third Quarter (September 2005) ground water sampling event at the Facility. According to the document, analysis of the ground water detection monitoring data indicated that the following statistically significant changes were detected: barium at ground water monitoring well MW-19A, and chloride at ground water monitoring well MW-5.

Pursuant to Ohio Administrative Code (OAC) Rule 3745-27-10(D)(7)(c), the owner or operator may demonstrate that a source other than the sanitary landfill facility caused the contamination, or that the statistically significant change resulted from error in sampling, analysis, or statistical evaluation or natural variation in ground water quality. A report documenting this demonstration must be submitted to and approved by Ohio EPA. If the owner or operator does not obtain approval to continue detection monitoring within two hundred ten (210) days from initial sampling, the owner or operator is required to comply with the provisions of OAC Rule 3745-27-10(E) for ground water quality assessment monitoring.

The January 13, 2006, document concluded that the statistically significant changes for barium at monitoring well MW-19A, and chloride at monitoring well MW-5 were due to natural variation in ground water quality, and not as a result of impact from the landfill.

Ohio EPA has reviewed the applicable information and concurs with the demonstration included in the January 13, 2006, document. Therefore, pursuant to OAC Rule 3745-27-

Bob Taft, Governor
Jennette Bradley, Lieutenant Governor
Joseph P. Koncelik, Director

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10(D)(7)(c)(ii), the owner or operator is hereby authorized to continue the detection monitoring program at monitoring wells MW-19A and MW-5 at the Facility. This approval applies only to the results obtained during the September 2005 ground water detection monitoring event. Should future or existing ground water sampling results indicate statistically significant changes in ground water monitoring parameters, the owner or operator will be required to either enter into assessment monitoring in accordance with OAC Rule 3745-27-10(E) or obtain approval to remain in the detection monitoring program.

Nothing in this letter shall be construed to authorize any waiver from the requirements of any applicable state or federal laws or regulations. This letter shall not be interpreted to release the Entity from responsibility under Chapters 3704, 3714, 3734, or 6111 of the Ohio Revised Code or under the Federal Clean Water or Comprehensive Environmental Response, Compensation, and Liability Acts for remedying conditions resulting from any release of contaminants to the environment.

You are hereby notified that this action of the Director of Environmental Protection is final and may be appealed to the Environmental Review Appeals 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 30 days after notice of the director's action. Notice of the filing of the appeal shall be filed with the director within three days after the appeal is filed with the commission. An appeal may be filed with the commission at the following address:

Environmental Review Appeals Commission
236 East Town Street
Room 300
Columbus, Ohio 43215

If you have any questions concerning this letter, please contact Jarnal Singh, Ohio EPA, Northeast District Office at (330) 963-1276.

Sincerely,

William Skowronski, Chief
Northeast District Office
for Joseph P. Koncelik, Director

WS/JS/cl

cc: Scott Hester, DSIWM-CO
Eric Adams, DSIWM-NEDO
DuWayne Porter, Portage County HD
File [LAND/Willowcreek/AUT/67]
File [LAND/Willowcreek/GRO/67]

INTEROFFICE COMMUNICATION

TO: Bill Skowronski, District Chief, Northeast District Office

FROM: Jarnal Singh, Environmental Specialist 2, through Judy Bowman, Environmental Specialist 3, through Eric Adams, Environmental Supervisor, through Kurt Princic, Environmental Manager.

SUBJECT: BFI Willowcreek Sanitary Landfill, Portage County
OAC 3745-27-10(D)(7)(c) demonstration

DATE: February 27, 2006

By letter dated January 13, 2006, Herst & Associates, Inc., on behalf of BFI Willowcreek Sanitary Landfill, submitted an alternate source demonstration in accordance with OAC 3745-27-10(D)(7)(c)(ii) to the Ohio EPA. The demonstration was submitted to address a statistically significant increases at monitoring wells MW-19A and MW-5 identified during the September 2005 ground water sampling event conducted at the Willowcreek Landfill located in Portage County.

Herst & Associates reported a statistically significant increase (SSI) of barium at monitoring well MW-19A. The reported barium concentration of 0.05 mg/L at this monitoring well was above the prediction limit of 0.03 mg/L. However the alternate source demonstration contains adequate supporting information that sufficiently shows the SSI was the result of natural variation. This information included leachate chemical analysis indicating that the barium concentration in leachate is historically below the detection level of 0.05 mg/L. Evaluation of other Appendix I indicator parameters which indicate ground water at monitoring well MW-19A has not been impacted by leachate or leachate derived constituents. A review of Ohio EPA's ambient ground water quality data which indicates monitoring well MW-19A's barium concentration is well within the naturally occurring range of 0.015 to 2.160 mg/L for sand and gravel aquifer in Ohio.

Herst & Associates also reported a SSI of chloride at monitoring well MW-5. The reported chloride concentration of 140 mg/L at monitoring well MW-5 for the September 2005 ground water detection monitoring event was above the prediction limit of 120 mg/L. However the alternate source demonstration contains adequate supporting information that sufficiently shows the SSI was the result of natural variation. This information included leachate chemical analysis indicating that the chloride concentration in leachate historically ranges from 3.0 to 4.7 mg/L. Evaluation of other Appendix I indicator parameters which indicate ground water at monitoring well MW-5 has not been impacted by leachate or leachate derived constituents. A review of Ohio EPA's ambient ground water quality data which indicates monitoring well MW-5's chloride concentration is well within the naturally occurring range of 2.0 to 286 mg/L for sandstone and shale bedrock aquifers in Ohio.

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Based on the information submitted, DSIWM recommends that the OAC 3745-27-10(D)(7)(c) demonstration dated January 13, 2006, be approved, and that Willowcreek Landfill be allowed to continue conducting detection monitoring at MW-19A and MW-5.