



State of Ohio Environmental Protection Agency

Northwest District Office

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

July 22, 2008

Mr. John King
Mansfield Plumbing Products, LLC.
150 East First Street
Perrysville, Ohio 44864

Dear Mr. King,

Mansfield Plumbing Products LLC (MPP) operates a Class 1 residual waste landfill in Ashland County. MPP is currently under Negotiated Director's Final Findings and Orders dated November 3, 2000, modified on July 25, 2003. Condition No. 17 under the November 3, 2000, Orders requires MPP to implement the ground water monitoring plan meeting the requirements of Ohio Administrative Code (OAC) Rule 3745-30-08 within 120 days from receiving Ohio EPA approval of the Ground Water Monitoring Plan (GWMP). The GWMP was approved by the Division of Solid and Infectious Waste Management (DSIWM) on June 25, 2007. DSIWM requested that the Division of Drinking and Ground Waters (DDAGW) review the above subject document in accordance with OAC Rule 3745-30-08 and the approved GWMP. The above subject document was received by the Ohio Environmental Protection Agency (Ohio EPA) on May 16, 2008.

COMMENTS

Violations

1. **Mansfield Plumbing Products (MPP) is in violation of Ohio Administrative Code (OAC) Rule 3745-30-08(C)(8), requiring all ground water analytical results generated in accordance with paragraphs (C), (D), (E), and (F) of this rule be submitted to Ohio EPA not later than seventy-five days after sampling the well. In order to prevent additional violations, MPP must submit all future analytical data within seventy-five days after sampling the well(s).**

MPP sampled background monitoring well MW-1 for all background water quality parameters listed in Appendix III.B of OAC Rule 3745-30-08, with the exception of volatile organic compounds (VOCs), on September 20 and October 11, 2007 (1st background sampling event), November 28, 2007, and January 16, 2008. The ground water analysis results and elevation data for these sampling events were not submitted to Ohio EPA until May 16, 2008, exceeding the seventy-five day requirement.

In addition, MPP did not follow the Groundwater Monitoring Plan (GWMP) for the Upper Landfill. In Section 4.0, Establishing Background Quality, (page 39) MPP states, "All data collected from the wells in accordance with this OAC Rules 3745-30-08(C), (D), (E), and (F) will be submitted within 75 days from the date on which the first groundwater sample was collected".

- 2. MPP is in violation of OAC Rule 3745-30-08(C)(1), requiring that the ground water monitoring program include consistent sampling and analysis procedures that are protective of human health and safety and the environment and that are designed to ensure monitoring results that provide an accurate representation of ground water quality at the background and downgradient wells. In order to prevent additional violations MPP must ensure all ground water quality parameters are analyzed at practical quantitation limits (i.e, PQLs) below any applicable Maximum Contaminant Level (MCL).**

MPP reported a PQL for dissolved cadmium of 0.005 milligrams per liter (mg/L) during the September 20, 2007, November 28, 2007, January 16, 2008, and March 12, 2008 ground water sampling events for background monitoring well MW-1. The federal Safe Drinking Water Act MCL for cadmium is 0.005 mg/L. The concentrations of cadmium during the above sampling events were reported as non-detect with no estimated detections. In addition, MPP reported arsenic at a PQL of 0.020 mg/L during the September 20, 2007 and January 16, 2008 ground water sampling events for MW-1. The federal Safe Drinking Water Act MCL for arsenic is 0.010 mg/L. The concentration of dissolved arsenic during the September 20, 2007 and January 16, 2008 sampling events were also reported as non-detect with no estimated detections.

PQLs must be below, and not equal to or greater than MCLs for those parameters for which MCLs have been promulgated. Pursuant to OAC Rule 3745-30-08(F)(6) in establishing concentration levels for waste-derived constituents detected above background in ground water, any proposed concentration level higher than an MCLs needs to be evaluated and justified. In general, if a background PQL for a contaminant is greater than its MCL then (a) the contaminant may be present at a concentration greater than the proposed concentration level (e.g., MCL) but not be quantifiable, (b) there is greater uncertainty in evaluating the contaminant concentration in the context of protectiveness of human health and the environment. As a result, PQLs used for ground water detection and assessment programs that exceed MCLs are considered not protective of human health and the environment.

It has been Ohio EPA's experience in the solid waste program that analytical laboratories that do business in the State of Ohio are capable of achieving PQLs well below any promulgated MCL.

- 3. MPP is in violation of OAC Rule 3745-30-08(C)(1), requiring that the owner or operator use the methods documented in the sampling and analysis plan. In order to prevent additional violations MPP must ensure that a field atmospheric blank for formaldehyde is prepared and analyzed for every sampling event in which a formaldehyde sample is collected.**

The GWMP, Section 3.4, identifies that a field atmospheric blank for formaldehyde will be collected as a project-specific field quality assurance/quality check. The analytical data submitted for the September 20, 2007 sampling event and October 11, 2007 re-sampling event do not contain a field atmospheric blank for formaldehyde.

More Information Needed to Determine Compliance

- 4. Compliance with OAC Rule 3745-30-08(C)(1), requiring that the owner or operator use the methods documented in the sampling and analysis plan, cannot be determined at this time. MPP needs to provide Ohio EPA the data validation reports for background sampling events dated September 20, October 11, and November 28, 2007, and January 16, and March 12, 2008.**

Section 3.6 in the approved GWMP describes the procedures to be used for purposes of data validation for ground water monitoring. This information was not included in the referenced submittal.

Recommendation

5. Ohio EPA recommends that MPP revise the Water Sampling Log used in the referenced submittal to reflect the stabilization criteria in the GWMP (i.e., pH \pm 0.1, conductivity \pm 5%, and temperature \pm 0.5). This recommendation may assist field personal in following the purging procedures outlined in the approved GWMP.

Statement

6. In Section 3.2 of the GWMP MPP states, "Once an analytical laboratory is contracted to perform the sampling analysis, the Ohio EPA will be sent a copy of

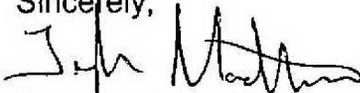
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the laboratory's QA/QC plan. Ohio EPA has not received a copy of this document.

7. During the MW-1 background sampling events dated September 20, 2007 and January 16, 2008, MPP analyzed for the statistical constituents copper, lead, and zinc using Method 6010B. The PQLs for these constituents using Method 6010B were 0.020 mg/L, 0.005 mg/L and 0.030 mg/L, respectively. During the MW-1 background sampling events dated November 28, 2007 and March 12, 2008, MPP analyzed copper, lead, and zinc using Method 6020 with a PQL for 0.001 mg/L, 0.001 mg/L, 0.010 mg/L, respectively. When determining the appropriate statistical method to be used to evaluate ground water monitoring data MPP needs to be aware that OAC Rule 3745-30-08(C)(6)(e) requires that any PQL used in the statistical method shall be the lowest concentration level that can be reliably achieved within the specified limits of precision and accuracy during routine laboratory operating conditions that are available to the facility. The background data generated using Method 6010B does not appear to be the lowest concentration levels achievable that is available to the facility. If the background data generated under Method 6010B is utilized in the statistical method, then MPP may not be in compliance with OAC Rule 3745-30-08(C)(6)(e). MPP is referred to Ohio EPA Guidance Document #406, regarding use and interpretation of PQLs for statistics in accordance with solid waste regulations. Guidance Document #406 is available on Ohio EPA's web page (www.epa.state.oh.us).

If the owner/operator has any questions, please contact Chad Zajkowski, Division of Drinking and Ground Waters, Northwest District Office, Ohio EPA, at (419) 373-3097. All submittals should be sent to Tyler Madeker, Division of Solid and Infectious Waste Management, Northwest District Office, Ohio EPA, 347 North Dunbridge Road, Bowling Green, Ohio, 43402.

Sincerely,



Tyler Madeker, S.I.T.
Ohio Environmental Protection Agency
Division of Solid and Infectious Waste Management

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cc: Ashland Co Health Dept.
ec: Chad Zajkowski, DDAGW, NWDO
Mike Terpinski, DHWM, NWDO
Ed Merriman, DSIWM, NWDO
Jack Leow, DDAGW, NWDO
5-7773

~~ASHLAND CO HEALTH DEPT. FILE~~