



State of Ohio Environmental Protection Agency

Southwest District Office

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

September 29, 2009

Paul Terrell  
Village Administrator  
Village of Cedarville  
P.O. Box 51  
Cedarville, Ohio 45314

**RE: Village of Cedarville Closed Landfill,  
Groundwater monitoring data for June 2009**

Dear Mr. Terrell:

At the request of the Division of Solid and Infectious Waste (DSIWM), the Division of Drinking and Ground Water (DDAGW) has reviewed the groundwater monitoring data for the June 17, 2009 sampling event for the closed Cedarville Landfill. The laboratory report of the data was submitted on August 27, 2009 to Ohio EPA Southwest District Office (SWDO). The following violations and recommendations are a result of the review.

- 1. The owner/operator of the closed Cedarville Landfill is in violation of Ohio Administrative Code (OAC) Rule 3745-27-10(C)(8).** No statistical analysis of the data was submitted as required by OAC Rule 3745-27-10(C)(8) which states;

*Determination of a statistically significant increase over background. The owner or operator shall determine whether or not there is a statistically significant increase over background for each parameter or constituent required to be statistically analyzed within the ground water monitoring program. The owner or operator shall make this determination each time he assesses ground water quality. To determine whether a statistically-significant increase or decrease has occurred, the owner or operator shall compare the ground water quality of each parameter or constituent at each downgradient ground water monitoring well to the background value of that parameter or constituent according to the statistical procedures specified in paragraphs (C)(6) and (C)(7) of this rule.*

- 1. The owner/operator of the closed Cedarville Landfill is in violation of Ohio Administrative Code (OAC) Rule 3745-27-10(C)(3)(b).** No determination of the direction of groundwater flow was made for the uppermost aquifer as required by OAC Rule 3745-27-10(C)(3)(b), which states;



*The owner or operator shall at least semiannually and in conjunction with any major sampling event involving more than half the wells in the system or zone monitored determine, for the uppermost aquifer system and for all significant zones of saturation monitored, the direction of ground water flow each time ground water elevation measurements are performed.*

1. **The owner/operator of the closed Cedarville Landfill is in violation of Ohio Administrative Code (OAC) Rule 3745-27-10(C)(3)(d).** Potentiometric surface maps were not submitted as required by OAC Rule 3745-27-10(C)(3)(d) which states;

*Potentiometric maps shall be constructed using the collected ground water elevation measurements and shall be included with the sampling data submittal.*

1. **The owner/operator of the closed Cedarville Landfill is in violation of Ohio Administrative Code (OAC) Rule 3745-27-10(C)(10)(b), (c) and (e).** The information provided by the facility only included the analytical results from the laboratory and did not include the following: field and laboratory quality assurance / quality control data, chain of custody and sample receipt forms or statistical analysis results as required by OAC Rule 3745-27-10(C)(10)(b), (c), and (e).
2. Water samples from monitoring wells MW 2 and MW 3 had elevated levels of turbidity which could result in elevated concentrations of the parameters analyzed. Specifically, water samples from MW- 2 detected concentrations of potassium (11.3 mg/l), total alkalinity (570 mg/l) and sulfate (566 mg/l) which appear to be elevated when compared to MW-1. Water samples from MW- 3 detected concentrations of calcium (600 mg/l), total alkalinity (1840 mg/l) and sulfate (830 mg/l) which appear to be elevated when compared to MW-1.

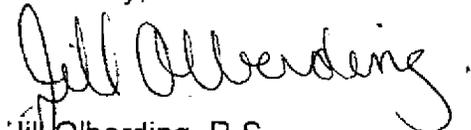
In order to ensure representative samples are being collected, the facility should sample the wells with a submersible pump to minimize the turbidity of the samples.



Paul Terrel  
September 29, 2009  
Page 3

Please submit the required documents as soon as possible. If you would like to have a meeting to discuss the above violations Rich Bendula or I can be reached at (937) 285-6357 to schedule a date and time.

Sincerely,

A handwritten signature in cursive script that reads "Jill Olberding".

Jill Olberding, R.S.

Division of Solid and Infectious Waste Management

cc: Rich Bendula Ohio EPA DDAGW/SWDO

ec: Beth Lackey, Greene County Combined Health District

JO/ca

