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1. Article Addressed to:

Mr Mark Potechnick
Senior Environ Engineer
Solvay Advanced Polymers
P.O. Box 446
Marietta, OH 45750

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State of Ohio Environmental Protection Agency

Southeast District Office

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

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February 6, 2008

Washington County
Solvay Advanced Polymers
DHWM/SEDO
OHD981529688
Permit # 04-84-0194

Mr. Mark Potochnik
Senior Environmental Engineer
Solvay Advanced Polymers, L.L.C.
P.O. Box 446
Marietta, Ohio 45750

RE: Ohio EPA Review of Solvay's May 2007 Ground Water Analytical Results

Dear Mr. Potochnik:

In August 2007, Ohio EPA received Solvay Advanced Polymers' (Solvay) semi-annual ground water analytical results for the sampling event conducted in May 2007. Ohio EPA has completed a review of Solvay's May 2007 ground water analytical results and has identified the following violation of the Ohio Administrative Code (OAC). Additionally, Ohio EPA has one comment on Solvay's sampling practices.

Violation

(1) OAC Rule 3745-54-99 (G), Compliance Monitoring Program; Permit Condition F7(e); and Section 4.2 of the Permit's Compliance Monitoring Plan (CMP):

If the owner or operator finds constituents listed in the ground water monitoring list (appendix to rule 3745-54-98 of the Administrative Code) in the ground water that are not already identified in the permit as monitoring constituents, the owner or operator may resample within one month and repeat the ground water monitoring list (appendix to rule 3745-54-98 of the Administrative Code) analysis. If the second analysis confirms the presence of new constituents, the owner or operator must report the concentration of these additional constituents to the director within seven days after the completion of the second analysis and add them to the monitoring list. If the owner or operator chooses not to resample, then he must report the concentrations of these additional constituents to the director within seven days after completion of the initial analysis and add them to the monitoring list.

Solvay's May 2007 sampling of ground water at the compliance boundary detected the metals arsenic, barium, chromium, cobalt, copper, lead and selenium which are on the appendix to OAC Rule 3745-54-98. For example, the shallow monitoring wells located along the southern boundary of the Emergency Basin (TW-11S, 14S, 15S, and 16S) were found to contain concentrations of total chromium ranging from 0.152 mg/L to 1.24 mg/L. The MCL for chromium is 0.1 mg/L. Measurements of dissolved and total chromium in these wells were at similar concentrations indicating that turbidity is not suspected as the cause for the elevated levels.

Solvay did not report the concentrations of these additional constituents to the Director within seven days after completion of the initial analysis or add these constituents to the monitoring list in accordance with OAC Rule 3745-54-99 (G), permit condition F7(e), and Section 4.2 of the CMP.

In order to correct this violation, Solvay must do the following **within 30 days** of receipt of this letter. Complete the steps outlined OAC Rule 3745-54-99 (G), Permit Condition F7(e), and Section 4.2 of the CMP. These steps include, but are not necessarily limited to, adding the detected constituents to the compliance monitoring parameter list (Table 4 in the CMP), and determining a concentration limit for each constituent added.

Please note that permit condition F11(b) states that "If the Permittee or the Director determines the compliance monitoring program no longer satisfies the requirements of OAC 3745-54-99, then, **within 90 days**, the Permittee must submit an application for a permit modification to make any appropriate changes to the program. Solvay may submit this modification as a class 1A modification under the listing of D.2 in the Appendix to OAC Rule 3745-50-51.

Comment

- (a) Each sampling event at Solvay includes several equipment blanks, because non-dedicated string is used to lower bailers into the wells. Solvay could save analytical cost by using disposable string, which would eliminate the need to run multiple equipment blanks.

Alternatively, Ohio EPA's Technical Guidance Manual for Ground Water Investigations discourages the use of bailers for sample collection. Low flow dedicated pumps are the preferable technique to collect ground water samples for volatile organic compounds and are not as likely to affect turbidity of the sample which is an important factor when analyzing for total metals. Currently, Solvay also analyzes for dissolved metals. Dissolved metal analysis could be eliminated if turbidity was not a factor.

Mr. Mark Potochnick:
Solvay Advanced Polymers, L.L.C.
February 6, 2008
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If you have any questions regarding this letter, please call me at (740) 380-5248.

Sincerely,

A handwritten signature in cursive script, appearing to read "Elizabeth A. Herron".

Elizabeth A. Herron
Environmental Specialist
Division of Hazardous Waste Management

EAH/mlm

cc: Steve Williams, DDAGW-SEDO