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December 10, 2004

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Via Facsimile: 277-3812

Mr. Jeffrey P. Crawford
Principal Environmental Scientist
Office of Waste Management
RIDEM
235 Promenade Street
Providence, RI 02908

Subject: Results of Subslab Extraction System Monitoring at Elementary School,
Springfield Street School Complex, Case 99-018

Dear Mr. Crawford:

This letter is being provided as a written followup to the verbal notification provided today regarding the results of monitoring of the subslab extraction system at the Anthony Carnevale Elementary School on Springfield Street. An air samples collected from the air extracted by blower # 1 had a photoionization detector (PID) reading of 43.4 ppm. A sample collected from air extracted by blower # 2 had a PID reading of 17.6 ppm. A sample of the air after treatment by the two carbon canisters had a maximum PID reading of 4475 ppm. These measurements were made with a MiniRAE 2000 PID calibrated with 100 ppm isobutylene. The action level for organic vapors by PID in the monitoring plan is 5 ppm.

We did not detect any odors in the shed which houses the subslab extraction system, or in the air samples. The subslab extraction system was operating normally.

Indoor air inside the elementary school was monitored prior to the subslab system monitoring, and did not detect any exceedance of action levels. PID readings were 0 in all locations monitored in the building.

After the monitoring of the elementary school subslab extraction system, we proceeded to the Middle school to perform indoor air monitoring there. However, in the front office of the middle school, with no apparent source of volatile organics, the PID was reading consistently over 10 ppm. Based on this, we concluded that the PID was malfunctioning. I decided to stop monitoring for the day and to continue on Monday after cleaning and recalibrating the PID and ensuring that it is operating properly. The rain and humidity may have been a factor.



In response to the PID readings from the subslab extraction system, we propose to repeat the PID monitoring on Monday, and to collect samples for laboratory analysis for volatile organic compounds.

I plan to return to the Site at 11:00 on Monday, and Mr. Stephen Fishback, who was present during today's monitoring, has indicated that he will also be present on Monday. Please contact me at 401-738-3887 if you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Donna H. Pallister'.

Donna H. Pallister, P.E.
Senior Engineer

CC: A. Sepe, City of Providence