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August 6, 1999

**FILE**

Ms. Jane Porter  
Cambridge Town School District  
School Street  
Cambridge, VT 05444

Re: Summary Report - Annual Soil Stockpile Monitoring for Cambridge Town School District, Cambridge, VT (VTDEC Site #98-2435)

Dear Ms. Porter:

This letter report summarizes the results of the annual monitoring of petroleum contaminated soils stockpiled at the Town of Cambridge gravel pit.

**Introduction/Site History**

During the removal of one 8,000-gallon No. 2 fuel oil underground storage tank (UST) at the Cambridge Elementary School on June 22, 1998, petroleum contamination was detected in soils from the excavation. Approximately 35 cubic yards of petroleum contaminated soils were removed from the excavation and transported off-site. The soils were stockpiled and polyencapsulated at the Town of Cambridge gravel pit, on Stebbins Road in Cambridge, VT.

Annual soil stockpile monitoring was requested by Mr. Chuck Schwer of the Vermont Department of Environmental Conservation (VTDEC) in a letter to you dated November 9, 1998. Annual monitoring of the soils is being conducted in accordance with Griffin's Work Plan and Cost Estimate dated December 2, 1998. The Work Plan was approved by Mr. Al Young of the

Cambridge Elementary School in a telephone conversation with Griffin on April 1, 1999, and by Mr. Chuck Schwer of the VTDEC in a letter dated April 27, 1999.

The objective of this ongoing investigation is to monitor the expected degradation of volatile organic compounds (VOCs) detected in the soils.

### Procedures and Reporting

On July 22, 1999 the soil stockpile was screened for VOCs using an HNu™ HW-101 photoionization detector (PID) equipped with a 10.2 eV bulb. Eight (8) soil samples were collected from the soil pile at a depth of approximately 18-inches below the top of the pile. Soil screening was conducted in accordance with the *Agency Guidelines for Petroleum Contaminated Soil and Debris* (August 1996) and with the Griffin Jar/Polyethylene Bag Headspace Screening Protocol. The following table presents the results from this soil screening event:

<i>Sample</i>	<i>PID Reading (ppm)</i>	<i>Depth (inches)</i>
1	2.0	18
2	1.6	18
3	6.0	18
4	1.2	18
5	1.8	18
6	1.8	18
7	1.6	18
8	1.4	18

Petroleum odors were not observed in the soil samples collected from the pile.

### Conclusions/Recommendations

Screening of the soils stockpiled at the Town of Cambridge gravel pit indicated that residual petroleum contamination in the stockpiled soils is above the levels required by the VTDEC for thinspreading. Because residual VOC contamination in the stockpiled soils is greater than 1 ppm, as measured with the PID, a screening event should be scheduled for the Summer of 2000. Annual monitoring of soils should be continued until the requirements for site closure are satisfied.

Following the approval of a Cambridge Town School District representative, Griffin will submit a copy of this report to the VTDEC on your behalf. Please call if you have any questions regarding this report.

Sincerely,

A handwritten signature in cursive script that reads "Beth Stopford".

Beth Stopford  
Environmental Engineer

- c. Mr. Al Young, Cambridge Elementary School  
GI #49941507