1677

GRIFFIN INTERNATIONAL INC

June 9, 1995

Mr. Richard Spiese
Vermont ANR/DEC
Hazardous Materials Management Division
103 South Main Street / West Building
Waterbury, VT 05671-0404

RE: Petroleum Contaminated Soil Screening Results for the Town of Woodbury
(VTDEC Site #~~89-0331~~)
94-1677

Dear Mr. Spiese:

On May 19, 1995, a Griffin field technician visited the Woodbury Town Garage to screen petroleum contaminated soils currently stockpiled at the property. This work is being conducted semi-annually to monitor the expected natural degradation of petroleum contaminants in the soil. The approximately 10 cubic yards of petroleum contaminated soil were generated during the removal of a 1,000 gallon diesel underground storage tank (UST) in September of 1994. This work is being conducted in response to a request from the Vermont Department of Environmental Conservation (VTDEC) as contained in a letter dated September 28, 1994 from you to the Town of Woodbury. All work conducted is in accordance with Griffin's October 19, 1994 work plan and cost estimate which was approved by the VTDEC on December 8, 1994.

Eight soil samples were collected from varying depths within the soil pile with the use of a hand auger and placed in plastic re-closable plastic bags. The head space in each of the bags was screened for volatile organic compounds (VOCs) with a properly calibrated H-Nu Systems PI-101 photo-ionization detector (PID). The results of the screening are displayed in the table on the next page.

According to the results of the screening, very low to non-detectable concentrations of VOC vapors were contained in the soils. The average detected VOC concentration detected was less than 0.1 part per million (ppm) above the background reading of 0.0 ppm. The maximum VOC concentration of 0.1 ppm detected in some of the samples is at the minimum detection level for the H-Nu PID. This indicates that the results were

barely within an acceptable quantitation limit and may have been caused by an outside influencing factor such as increased humidity within the sample bag.

Town of Woodbury Garage: 5/19/95 Soil Screening Results		
Sample No.	**VOC Conc. (ppm)**	**Sample Depth (ft)**
1	0.0	2.5
2	0.0	3.0
3	0.1	2.5
4	0.1	2.5
5	0.0	3.0
6	0.0	3.0
7	0.1	3.0
8	0.0	2.5
Average	**<0.1**	

Recommendations

Based on the latest results of the soil stockpile screening at the Woodbury Town Garage, the following recommendations are made:

1) Due to the nearly non-detectable concentrations of contaminants detected by the PID, the soils should be spread on site or used as back fill at the site following approval from the VTDEC.

2) The Woodbury Town Garage site in Woodbury, Vermont should be considered for Site Management Activity Completed (SMAC) and removed from the Vermont DEC Active Hazardous Sites List based on the following criteria taken from the Vermont DEC SMAC Checklist:

   a) The source(s), nature and extent of contamination has been adequately defined.

      The source of the contamination detected at the site was from a former UST system. Based on the tank removal inspection, the extent of the contamination was limited to approximately 10 cubic yards of soil, all of which was removed from the ground and stockpiled in a polyethylene liner The reason for the release of contamination is likely due to small spills and overfills in the vicinity of the fill pipe and/or the dispenser.

   b) Source(s) has been removed, remediated, or adequately contained.

The UST system was removed in September of 1994 and replaced by a new system in accordance with Vermont DEC UST Regulations. There is no longer a known source of contamination.

c) Levels of contaminants in soil and groundwater shall be stable, falling, or non-detectable.

Groundwater was never encountered during excavation of the tank. As all petroleum contaminated soils are believed to have been removed from the excavation, it is not likely that the groundwater has been impacted. All soils removed from the excavation have been undergoing passive treatment by the natural processes of degradation , dispersion, volatilization, and photo-chemical reactions, since stockpiling in a polyethylene liner. According to the latest screening results, contamination concentrations have reduced to nearly non-detectable.

d) Groundwater enforcement standards are met on entire property.

Groundwater at the site is not believed to have been impacted with petroleum contamination at this site.

e) Soil guideline levels are met. If not, engineering or institutional controls are in place.

The average VOC concentration in the soils as measured by a PID is less than 0.1 ppm.

f) No unacceptable threat to human health or the environment exists on-site.

As contamination levels in the soils have reduced to nearly non-detect to non-detectable as measured by a PID, there in no unacceptable threat to human health, safety, or the environment from these soils.

g) Site meets RCRA requirements.

The Town of Woodbury is not known to be in violation of the Resource Conservation and Recovery Act (RCRA) as defined in 40 CFR 264.

h) Site meets CERCLA requirements.

The Town of Woodbury is not known to be in violation of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as defined in 40 CFR 300.

Please consider these recommendations and contact me if you have any questions regarding this site.

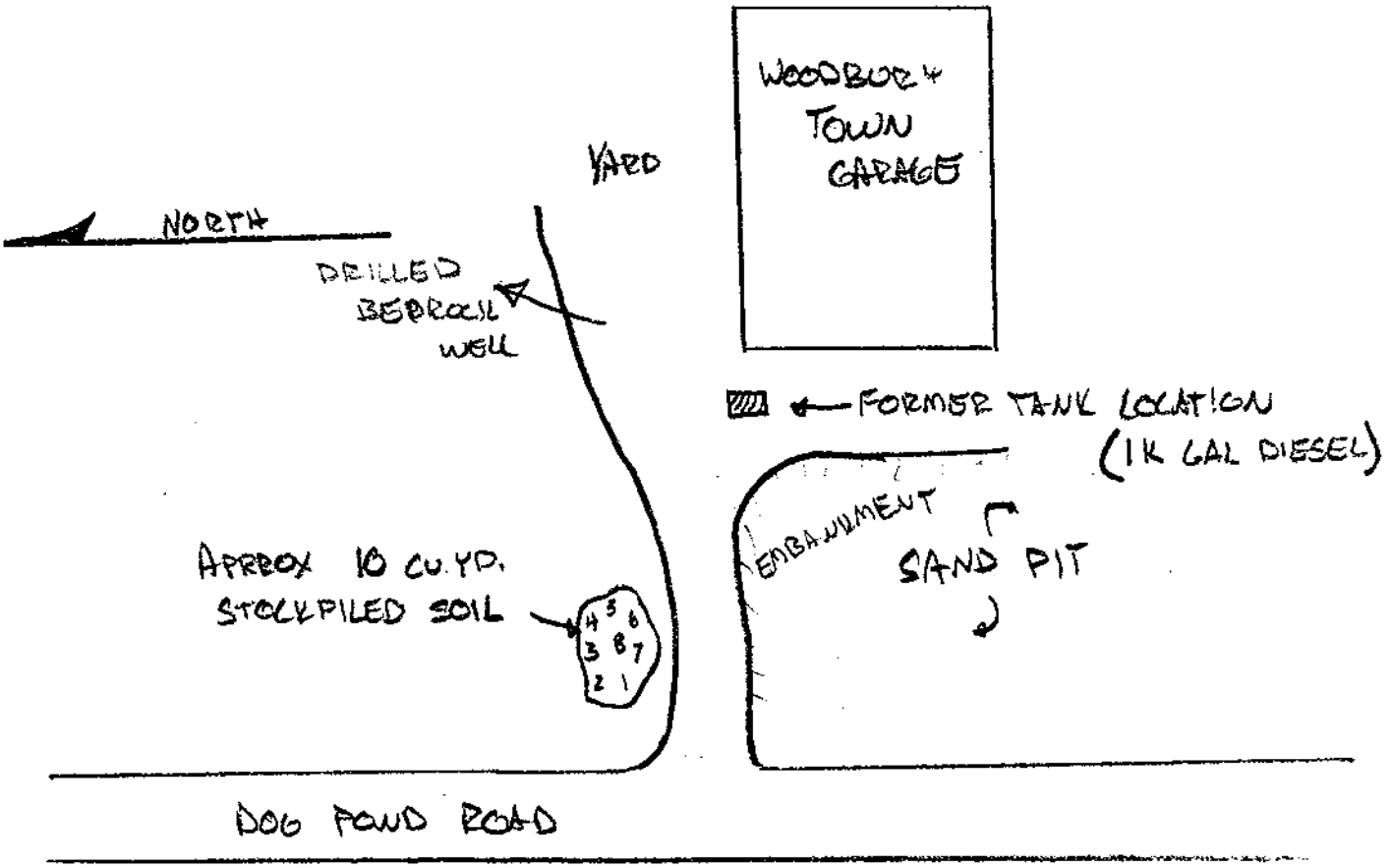
Sincerely,

Erik C. Sandblom
Engineer

Attachment

cc: Diana Peduzzi, Town of Woodbury

TOWN OF WOODBURY
SOIL SCREENING RESULTS
MAY 19, 1995



RESULTS:

SAMPLE	DEPTH	VOC CONC (PPM)
BACKGROUND	—	0.0
1	2.5'	0.0
2	3.0'	0.0
3	2.5'	0.1
4	2.5'	0.1
5	3.0'	0.0
6	3.0'	0.0
7	3.0'	0.1
8	2.5'	0.0

DRAWN BY: Eric Shumsky
6/6/95