

FPM Group, Ltd.
FPM Engineering Group, P.C.
formerly Fanning, Phillips and Molnar

CORPORATE HEADQUARTERS
909 Marconi Avenue
Ronkonkoma, NY 11779
631/737-6200
Fax 631/737-2410

VIA MAIL AND EMAIL

March 25, 2009

Ms. Geralynn Rosser
Suffolk County Department of Health Services
15 Horseblock Place
Farmingville, NY 11738

Re: **March 2009 Groundwater Sampling Results**
1735 Express Drive North, Hauppauge, New York
FPM File No. 894-06-01

Dear Geralynn:

FPM Group (FPM) has prepared this report to document groundwater sampling performed at the above-referenced facility in accordance with your recommendations. This is the final round of four quarterly monitoring events recommended by the Suffolk County Department of Health Services (SCDHS). Monitoring well MW-1 was installed in January 2008 for the purpose of evaluating groundwater conditions immediately downgradient of former leaching pool LP-4, which was remediated in July 2006 and November 2007, and properly abandoned in November 2007 in accordance with SCDHS requirements. The site features and the location of well MW-1 are shown on the attached site plan.

Monitoring well MW-1 was gauged on March 19, 2009 with a water level indicator and the depth to water was measured from the top of the PVC casing and recorded. A decontaminated Proactive five-stage pump with a flow controller was utilized to purge the well of at least three casing volumes of water prior to sampling. A well sampling form documenting the purging and sampling procedures was completed and is attached. The pump flow was then reduced to less than 0.25 gallons per minute and a groundwater sample was obtained from the pump and transferred to laboratory-supplied sample bottles. The sample bottles were labeled and maintained in a cooler with ice to depress the sample temperature until delivery to the laboratory. A chain of custody form was completed and kept with the cooler to document the sequence of sample possession. The samples were transmitted to a New York State Department of Health-certified laboratory and analyzed for SCDHS volatile organic compounds (VOCs).

The groundwater analytical results are shown in Table 1 along with the previous results from January, May, and October 2008 and are compared to the New York State Department of Environmental Conservation Class GA Ambient Water Quality Standards (Standards). The complete laboratory analytical report is attached.

The March 2009 groundwater analytical results indicate that four VOCs were detected, including 1,1,1-trichloroethane (1,1,1-TCA) at 29 micrograms per liter ($\mu\text{g/l}$), tetrachloroethene (PCE) at 37 $\mu\text{g/l}$, 1,2-dichloroethylene (1,2-DCE) at 110 $\mu\text{g/l}$, and trichloroethylene (TCE) at 10 $\mu\text{g/l}$.

The March 2009 groundwater results were compared to the previous results from January, May, and October 2008. In general, VOC concentrations have continued to decline. Total VOC concentrations have shown a steady decline during each quarterly monitoring event, decreasing by an order of magnitude from 1,100 $\mu\text{g/l}$ in January 2008 to 186 $\mu\text{g/l}$ in March 2009. Furthermore, the number of VOCs detected in well MW-1 has steadily declined from a total of eight VOCs in May 2008 to four VOCs detected in March 2009. It should also be noted that the concentrations of 1,1,1-TCA, PCE, and TCE have shown a significant decline and the petroleum compounds previously noted are no longer detected.

Conclusions and Recommendations

As anticipated, total VOC concentrations in well MW-1 have steadily declined following the removal of VOC-impacted source material and the abandonment of leaching pool LP-4. Since the source has been removed and infiltration is no longer occurring in the former LP-4 area, VOC concentrations in well MW-1 are anticipated to continue to decline. Therefore, no further monitoring is recommended.

Please confirm that monitoring may be discontinued and that no further actions will be required. If you have any questions, please contact us at 737-6200.

Sincerely,



John S. Bukoski
Hydrogeologist

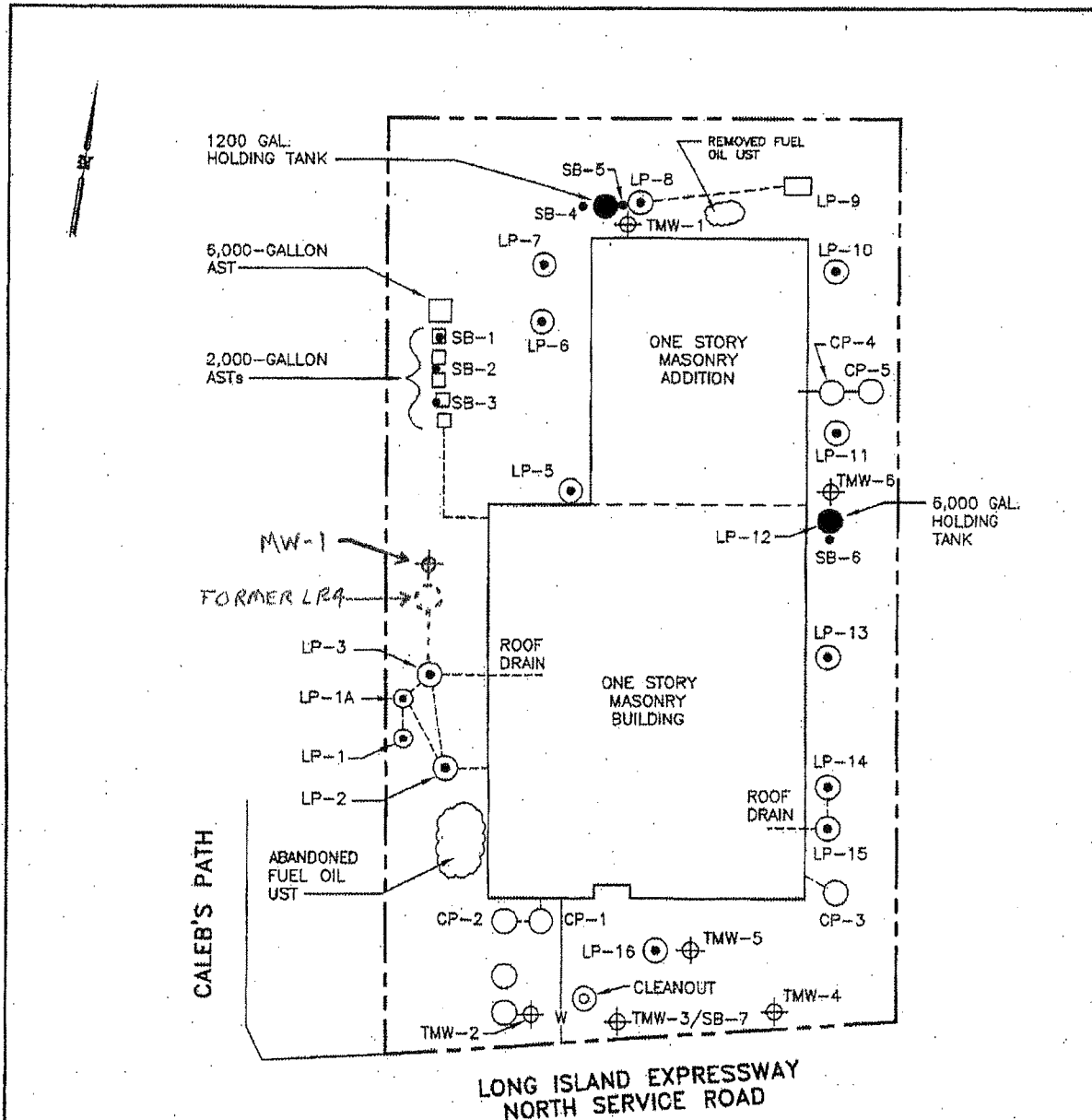


Stephanie O. Davis
Senior Hydrogeologist
Department Manager

JSB/SOD:tac
Attachments

cc: James Maggio
James Ray, Esq.

S:\Maggio\GW Monitoring\SCDHS Mar09GW Results Ltr.Doc



LEGEND:

- = SOIL BORING
- ⊕ = TEMPORARY GROUNDWATER MONITORING WELL
- = CESSPOOL/SEPTIC TANK
- ⊙ = STORMWATER LEACHING POOL
- = SOLID-BOTTOM CATCH BASIN
- = FORMER USTs
- W — = WATER SERVICE CONNECTION

NOT TO SCALE

FPM GROUP		
FIGURE 1		
SITE PLAN		
1735 EXPRESSWAY DRIVE NORTH HAUPPAUGE, NEW YORK		
Drawn By: HC, JDS	Checked By: JB	Date: 2/6/08

H:\MAGDO'S SITE PLAN\DWG 1735EXPRESS 190308.DWG 11

TABLE 1
GROUNDWATER MONITORING RESULTS
1735 EXPRESS DRIVE NORTH, HAUPPAUGE, NEW YORK

Sample Location	MW-1				NYSDEC Class GA Ambient Water Quality Standards
	Sample Date	1/17/08	5/9/08	10/8/08	
<i>Volatile Organic Compounds in µg/l</i>					
1,1,1-Trichloroethane	ND	170	200	29	5
1,2,4-Trimethylbenzene	ND	17	ND	ND	5
1,1-Dichloroethane	ND	ND	16	ND	5
1,2-Dichloroethylene (total)	ND	230(cis-)	6 (trans-)	110 (cis-)	5
Ethylbenzene	ND	22	ND	ND	5
Xylene (total)	ND	81	20	ND	5
Tetrachloroethene	1,100	130	150	37	5
Toluene	ND	7	ND	ND	5
Trichloroethylene	ND	210	68	10	5
Total VOCs	1,100	867	460	186	-

Notes:

ND = Not Detected

NYSDEC = New York State Department of Environmental Conservation

Bold and shaded values exceed NYSDEC Class GA Ambient Water Quality Standards

µg/l = micrograms per liter

WELL SAMPLING DATA FORM

Project: MaggioLocation: 1735 Express Drive North, HauppaugeWell No.: MW-1 Well Diameter: 2-inchDate: 3/19/09 Start Time: _____Weather: Rain 35°F Finish Time: _____Sampled By: JBDepth to Bottom of Well: 106 Feet.Depth to Water: 82.15 Feet.Height of Water Column: 23.85 Feet.Water Volume in Casing: 3.82 Gallons.Water Volume to be Purged: 11.5 Gallons.Water Volume Actually Purged: 12 Gallons.Purge Method: Submersible pump

Physical Appearance/Comments: _____

FIELD MEASUREMENTS:

Time	Gallons	pH	Cond. (uS)	Temp. (°F)	Turbidity (NTU)
	4	6.42	165	51.9	37
	8	6.28	156	52.5	25
	12	6.21	153	52.7	31

Sampling and Analytical Methods: Low-flow submersible pump / SCDHS VOCsLaboratory Name and Location: YORK LABS - CT

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

FPM Group
909 Marconi Avenue
Ronkonkoma, New York 11779
Attention: John Bukoski

Report Date: 3/24/2009
Re: Client Project ID: Maggio
York Project No.: 09030698

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854



Report Date: 3/24/2009
 Client Project ID: Maggio
 York Project No.: 09030698

FPM Group
 909 Marconi Avenue
 Ronkonkoma, New York 11779
 Attention: John Bukoski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 03/20/09. The project was identified as your project "Maggio".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-1	
York Sample ID			09030698-01	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles, Suff. Co. App. A DHS List	SW846-8260	ug/L	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0
1,1,1-Trichloroethane			29	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0
1,1-Dichloroethane			Not detected	5.0
1,1-Dichloroethene			Not detected	5.0
1,1-Dichloropropene			Not detected	5.0
1,2,3-Trichlorobenzene			Not detected	5.0
1,2,3-Trichloropropane			Not detected	5.0
1,2,4,5-Tetramethylbenzene			Not detected	5.0
1,2,4-Trichlorobenzene			Not detected	5.0
1,2,4-Trimethylbenzene			Not detected	5.0
1,2-Dibromo-3-chloropropane			Not detected	5.0
1,2-Dibromoethane			Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0
1,2-Dichloroethane			Not detected	5.0

YORK

Client Sample ID			MW-1	
York Sample ID			09030698-01	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
1,2-Dichloropropane			Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0
1,3-Dichloropropane			Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0
2,2-Dichloropropane			Not detected	5.0
Acetone			Not detected	5.0
Benzene			Not detected	5.0
Bromobenzene			Not detected	5.0
Bromochloromethane			Not detected	5.0
Bromodichloromethane			Not detected	5.0
Bromoform			Not detected	5.0
Carbon Tetrachloride			Not detected	5.0
Chlorobenzene			Not detected	5.0
Chloroethane			Not detected	5.0
Chloroform			Not detected	5.0
Chlorotoluenes, total			Not detected	5.0
cis-1,2-Dichloroethene			110	5.0
cis-1,3-Dichloropropene			Not detected	5.0
Dibromochloromethane			Not detected	5.0
Dibromomethane			Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0
Ethylbenzene			Not detected	5.0
Freon-113			Not detected	5.0
Hexachlorobutadiene			Not detected	5.0
Isopropylbenzene			Not detected	5.0
Methyl ethyl ketone			Not detected	5.0
Methyl isobutyl ketone			Not detected	5.0
Methylene Chloride			Not detected	5.0
MTBE (methyl tert-butyl ether)			Not detected	5.0
Naphthalene			Not detected	5.0
n-Butylbenzene			Not detected	5.0
n-Propylbenzene			Not detected	5.0
p-Diethylbenzene			Not detected	5.0
p-Ethyltoluene			Not detected	5.0
p-Isopropyltoluene			Not detected	5.0
sec-Butylbenzene			Not detected	5.0
Styrene			Not detected	5.0
tert-Butylbenzene			Not detected	5.0
Tetrachloroethene			37	5.0
Toluene			Not detected	5.0
trans-1,2-Dichloroethene			Not detected	5.0
trans-1,3-Dichloropropene			Not detected	5.0
Trichloroethene			10	5.0
Trichlorofluoromethane			Not detected	5.0
Vinyl Chloride			Not detected	5.0
Xylenes, total			Not detected	5.0

Units Key:

For Waters/Liquids: mg/L = ppm ; ug/L = ppb

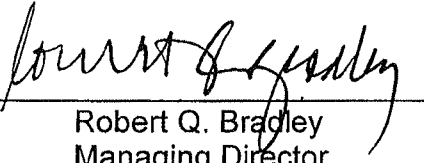
For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

YORK

Report Date: 3/24/2009
Client Project ID: Maggio
York Project No.: 09030698

Notes for York Project No. 09030698

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: 
Robert Q. Bradley
Managing Director

Date: 3/24/2009

YORK

YORK

Analytical Laboratories, Inc.

QA/QC Summary Report

n

Associated Samples: AE12009

24-Mar-09

Client: FPM Group

Analysis Name: **VOA QC WATERS**
Unit of Measure: ug/L

Batch Name: \$VOAW-32843

QA Sample #: AE12009
York's Sample ID: 09030698-01

Parameter	LCS(%)	Unspiked Result	Blank	Matrix Spike			Spike Duplicate		
				Amount	Result	Recovery, %	Duplicate	Recovery, %	Precision, RPD
Trichloroethylene	110	Not detected	Not detected	50	51	102.0	52	104.0	1.9
1,1-Dichloroethylene	123	Not detected	Not detected	50	59	118.0	57	114.0	3.4
Benzene	97	Not detected	Not detected	50	47	94.0	47	94.0	0.0
Chlorobenzene	104	Not detected	Not detected	50	51	102.0	51	102.0	0.0
Toluene	104	Not detected	Not detected	50	51	102.0	52	104.0	1.9

YORK

YORK

ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of 1

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 09030698

Client Information Company: <u>FPM</u> Address: <u>90A Marconi Ave</u> <u>Rockton, N.Y.</u> Phone No. <u>631-737-6200</u> Contact Person: <u>John Bukoski</u> E-Mail Address: <u>j.bukoski@fpm-group.com</u>		Report To: Company: <u>same</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Invoice To: Company: <u>same</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Client Project ID <u>Maggio</u> Purchase Order No. <u>894-06-01</u>		Turn-Around Time 24 hr _____ 48 hr _____ 72 hr _____ 5 Day _____ Standard <input checked="" type="checkbox"/> OTHER _____		Report Type/Deliverables Summary Results Only _____ QA/QC Summary _____ RCP Package _____ ASP B Pkg _____ ASP A Pkg _____ Excel format _____ EDD _____			
Volatiles TICs _____ Site Spec. _____ SPLP or TCLP _____ Benzene _____ Naphthalene _____ PAH _____ TACGM _____ CT RCP _____ Arom. _____ Halog. _____ App. IX _____ 8021B list _____ 5035 _____		Semi-Volatiles 8270 or 625 _____ STARS _____ BNY Only _____ Acids Only _____ PAH _____ TACGM _____ CT RCP _____ TICs _____ App. IX _____ SPLP or TCLP _____ TCLP BNA _____ 608 PCB _____		Metals RCRA8 _____ PP13 _____ TAL _____ CT15 _____ Total _____ Dissolved _____ SPLP or TCLP _____ Metals _____ TCLP Herb _____ Chloridane _____ 608 Pest _____ TCLP BNA _____ 608 PCB _____		Misc. Org. TPH GRO _____ TPH DRO _____ CT ETPH _____ NY 310-13 _____ TPH 418.1 _____ Air TO14A _____ Air TO15 _____ Air STARS _____ Hg, Pb, As, Cd _____ Air VPH _____ Cr, Ni, Ba, Fe _____ App. IX _____ SPLP or TCLP _____ TCLP BNA _____ 608 PCB _____		Full Lists PH-Poll _____ TCL Organics _____ TAL Mecon _____ Full TCLP _____ Full App. IX _____ Part 360 Rodent _____ Heterotrophs _____ Chloride _____ Phosphate _____ BTU/lb. _____ Aquatic Tox. _____ F.O.G. _____ TOC _____ NYDEC Sewer _____ Silica _____ TACGM _____		Miscellaneous Parameters Comovity _____ Reactivity _____ Ignitability _____ Flash Point _____ Sieve Anal. _____ Ammonia-N _____ Chloride _____ Phosphate _____ Tot. Phos. _____ Oil & Grease _____ P.O.G. _____ pH _____ MBAS _____ TPH-JR _____		Special Instructions Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>	
Matrix Codes S - soil _____ Other - specify (oil, etc.) _____ WW - wastewater _____ GW - groundwater _____ DW - drinking water _____ Air-A - ambient air _____ Air-SV - soil vapor _____		Sample Matrix <u>GW</u>		Sample Identification <u>MW-1</u>		Date Sampled <u>3/19/09</u>		Choose Analyses Needed from the Menu Above and Enter Below		Container Description(s) <u>(2) 40 ml</u>			
Comments Preservation _____ Check these Applicable _____ HCl _____ MeOH _____ Frozen _____ 4°C _____ HNO ₃ _____ 4°C _____ H ₂ SO ₄ _____ 4°C _____ H ₂ SO ₄ _____ ZnAc _____ Ascorbic _____ NaOH _____ Other _____		Samples Relinquished By <u>John S. Bukoski</u> Date/Time <u>3/19/09 1645</u> Samples Received in LAB by <u>SEANB</u> Date/Time <u>3/20/09</u>		Samples Relinquished By _____ Date/Time _____ Samples Received in LAB by _____ Date/Time _____		Temperature on Receipt <u>4.0°C</u>							

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

John S. Bukoski
 Samples Collected/Authorized By (Signature)
John S. Bukoski
 Name (printed)

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