Dvirka and Bartilucci
CONSULTING ENGINEERS

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January 17, 2007

Mr. Payson Long
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7013

Re: Franklin Cleaners Site (Site No. 1-30-050)
D&B Work Assignment No. D003600-45
Quarterly Report No. 8 (June 1, 2006 through August 31, 2006)
D&B No. 2531-03

Dear Mr. Long:

The purpose of this letter is to summarize the performance monitoring of the groundwater extraction and treatment system, located approximately 1 mile south/ downgradient of the Franklin Cleaners Site (see Attachment A, Figure 1). This performance monitoring report covers the period from June 1, 2006 through August 31, 2006. Presented below is a summary of system operations during the quarter, as well as the results of analytical testing completed, in accordance with the work plan for the referenced work assignment.

Groundwater Extraction and Treatment System Operations

During this period, extraction well EW-2 operated at an average pump rate of approximately 2.9 gallons per minute during the months of June and July 2006. Extraction well EW-2 was shut down on July 25, 2006, due to extraction well EW-2 failure and VFD #2 overload failure. As a preliminary effort to troubleshoot the situation, extraction well EW-2 was redeveloped on August 30, 2006, to attempt to free up any sediment within the well screen which may have caused a strain on the well pump and the potential overload of the extraction well VFD. However, upon completion of the redevelopment, it was determined that this was not the case and the problem was refined to the extraction well pump and its associated wiring. Per the request of the New York State Department of Environmental Conservation (NYSDEC), cost estimates to further troubleshoot and rectify the situation will be obtained under the new subcontract for maintenance services which was executed on November 21, 2006. Extraction well

EW-1 was not in operation during this quarter due to an unknown load on the extraction well pump. Per the request of the NYSDEC, D&B has obtained cost estimates to troubleshoot and rectify the situation. It should be noted that extraction well EW-1 was repaired and placed back into operation in September 2006.

Approximately 309,200 gallons of treated groundwater, based on measurements recorded at the treatment system discharge flow meter, were discharged to the Nassau County Department of Public Works (NCDPW) storm sewer system. It should be noted that this volume is inconsistent with the influent flow meter which recorded approximately 190,700 gallons of groundwater entering the treatment system.

During this period, the groundwater extraction and treatment system was inoperative for a total of approximately 1,113 hours due to system alarm conditions and routine system maintenance. The "down time" was not consecutive and occurred over the course of the reporting period involving approximately 10 alarm episodes. A description of system alarm conditions is presented in Attachment B. Copies of routine system maintenance reports, as prepared by EnviroTrac, are presented in Attachment C.

Groundwater Extraction and Treatment System Sampling

Samples were collected from the EW-2 well influent line sample tap, as well as from the air stripper (liquid) discharge sample tap, at a frequency of twice per month during the months of June and July. No samples were collected during the month of August since both extraction well pumps were shut down for the duration of the month. Each sample was analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method OLM04.2. The samples collected from the air stripper discharge sample tap were also analyzed for iron and manganese by USEPA Method 200.7 and for pH by USEPA Method 150.1.

Sample results are presented in Attachment D. The analytical results of samples collected from the air stripper discharge are compared to the effluent limitations. As can be seen from the summary report in Attachment D, the discharge sample results for the period were all below the VOC effluent limitations. However, iron results from samples collected on June 19 and July 6, 2006 were above the site-specific effluent limit of 1,000 micrograms per liter (ug/l).

Approximately 0.17 pounds of tetrachloroethene (PCE) were removed from the extracted groundwater by the low profile air stripper during the reporting period. The average PCE removal efficiency for this quarter was greater than 99 percent. Refer to Attachment E for a

summary of the extraction and treatment system performance results since the system was placed in operation.

Vapor phase samples were collected from the two carbon adsorption unit influent and effluent sample taps at a frequency of once per week during the months of June and July. Each sample was collected by filling a Tedlar bag directly from the sample taps and the samples were screened using a calibrated, handheld photoionization detector (PID). During the period, all PID readings collected at the carbon vessel outlets were less than 1.0 part per million (ppm). Refer to Attachment D for results of vapor phase samples collected during the period.

Groundwater Quality Data

The network of downgradient groundwater monitoring wells were sampled to evaluate the effectiveness of the groundwater extraction and treatment system. Samples were collected from ASMW-1, ASMW-2, ASMW-3, ASMW-4, ASMW-5, ASMW-6 and ASMW-7 on August 31, 2006, and analyzed for VOCs by USEPA Method OLM04.2. The locations of the monitoring wells are shown in Figure 2 in Attachment A.

The results of the analyses of the samples collected from the monitoring wells are presented in Attachment D and summarized on Figure 2 in Attachment A. The results are compared to the NYSDEC Class GA Groundwater Standards and Guidance Values. The samples collected from wells ASMW-1 and ASMW-2 contained concentrations of PCE above the standard of 5 ug/l. No other VOCs were detected in these wells at concentrations above standards or guidance values. VOCs were not detected above standards or guidance values in the samples collected from monitoring wells ASMW-3, ASMW-4, ASMW-5, ASMW-6 and ASMW-7 during this period. Please refer to the trend line graphs provided in Attachment E, which summarize PCE concentrations detected in samples collected from ASMW-1, ASMW-2 and ASMW-3 since June 2003.

Data Validation

The biweekly system samples and groundwater samples have been analyzed for VOCs by Mitkem Corporation (Mitkem). The effluent sample (AS-1) was also analyzed for iron, manganese and pH. Mitkem is a New York State Department of Health Environmental Laboratory Approval Program-certified laboratory. The data packages submitted by Mitkem have been reviewed for completeness and compliance with the NYSDEC Analytical Services Protocol (ASP) Quality Assurance/Quality Control (QA/QC) requirements. All sample results have been deemed valid and usable for environmental assessment purposes as qualified below:

- All samples were analyzed within the method specified holding times and all QA/QC requirements (surrogate recoveries, calibrations, blanks, etc.) were met.

- The iron results for the effluent sample AS-1, collected on June 19 and July 6, 2006, were uncharacteristically high. Upon review of the raw data and QC samples, no problems were found with the sample results. However, the iron result for the sample collected on July 17, 2006 was non-detect, which is consistent with historical analytical results.

Conclusions

Based on the results of performance monitoring performed during the period, we offer the following conclusions:

- The analytical results of the system influent samples show that the extraction well EW-2 continues to capture VOC-contaminated groundwater.

- The analytical results of the liquid discharge samples show that the air stripper is effectively removing the captured VOCs and reducing concentrations to below the discharge criteria.

- Concentrations of iron detected in the groundwater treatment system discharge samples collected on June 19 and July 6, 2006 were uncharacteristically high. However, the iron result for the sample collected on July 17, 2006 was non-detect, which is consistent with historical analytical results.

- Concentrations of PCE detected in monitoring well ASMW-1 remained the same (6 ug/l) between May 23, 2006 and August 31, 2006. During that same period, concentrations of PCE in monitoring well ASMW-2 decreased from 36 ug/l (May 23, 2006) to 29 ug/l (August 31, 2006). VOCs were not detected at concentrations above standards or guidance values in the samples collected from groundwater monitoring wells ASMW-3, ASMW-4, ASMW-5, ASMW-6 and ASMW-7 during this period.

Recommendations

Based on the results of performance monitoring conducted during the period, we offer the following recommendations:

- Continue operation of the groundwater extraction and treatment system to minimize downgradient migration of PCE, currently being captured by the system.

- Continue groundwater monitoring through the existing monitoring well network to determine contaminant concentration trends over time and to evaluate the continued effectiveness of the remediation system.

- Diagnose and repair extraction well EW-2 well pump and return to operation. Per the request of the NYSDEC, cost estimates to troubleshoot and rectify the situation will be obtained under the new subcontract for maintenance services, which was executed on November 21, 2006.

- Continue evaluating the accuracy of the influent and effluent flow meters, due to inconsistencies detected between the influent and effluent calculated total flows.

Please do not hesitate to contact me at (516) 364-9890 if you have any questions.

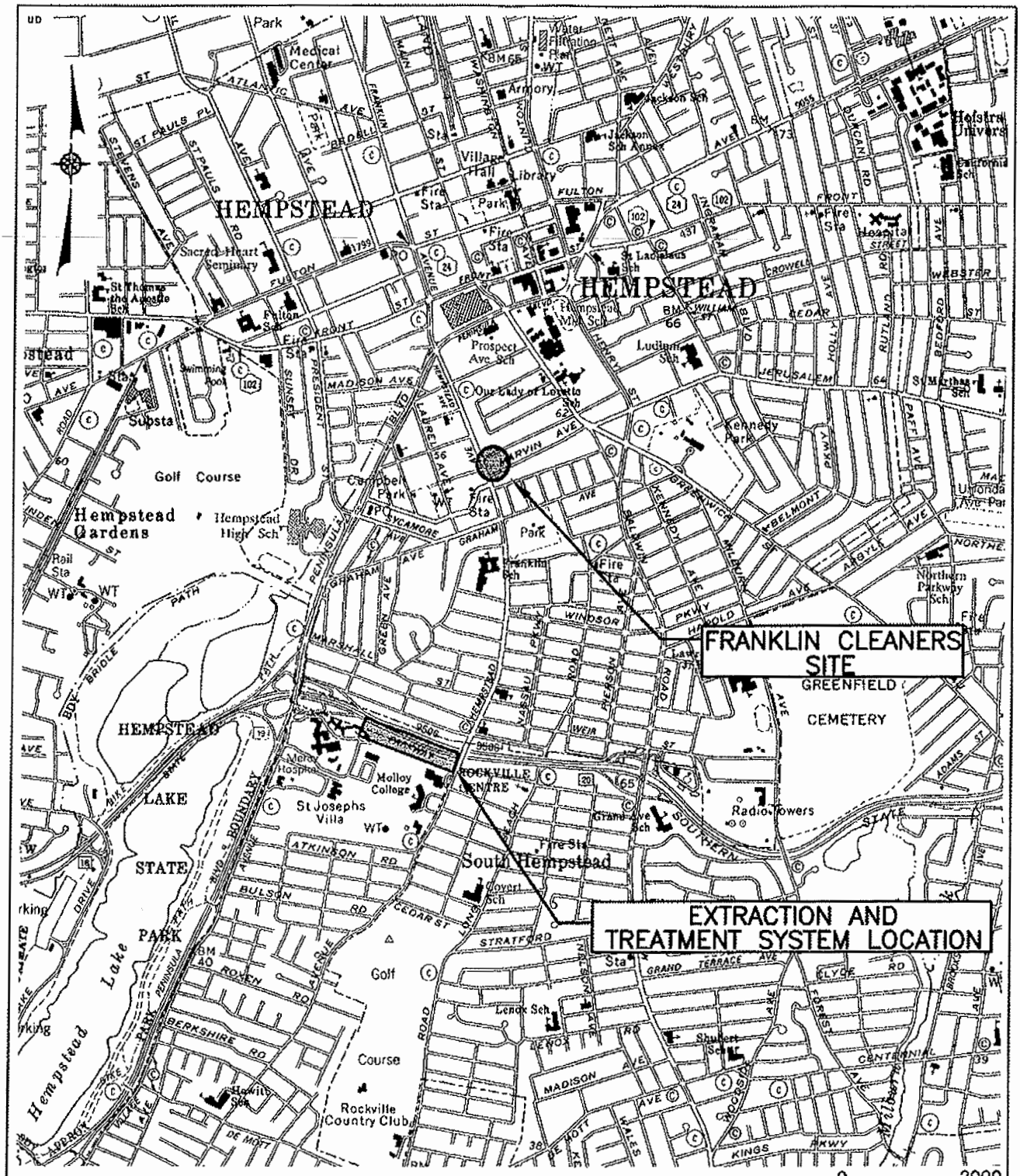
Very truly yours,

Frank DeVita
Project Manager

FD/PSM/all
Attachments
cc: J. Trad (NYSDEC)
J. Neri (H2M)
R. Walka (D&B)
♦2531\FD10116PL(R06)

ATTACHMENT A

FIGURES



SOURCE: USGS FREEPORT AND LYNBROOK QUADRANGLES

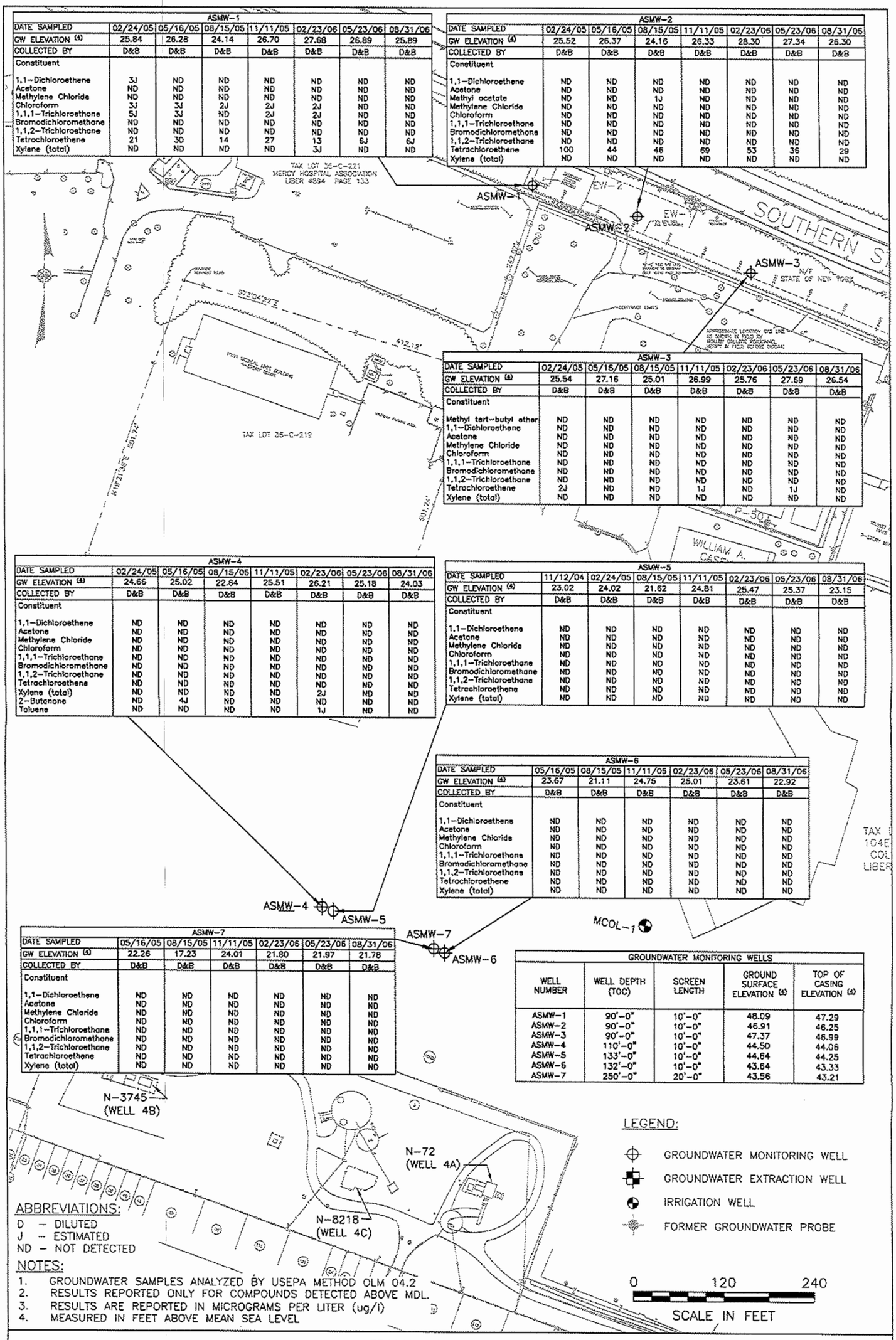
FRANKLIN CLEANERS SITE
VILLAGE OF HEMPSTEAD, NEW YORK

SITE LOCATION MAP

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

FIGURE 1

P:\12531\DWG\Quarterly Reports\Quarter 8\FIGURE 1.dwg, Layout1, 10/12/06 05:03:32 PM, PMartorano



ASMW-1							
DATE SAMPLED	02/24/05	05/16/05	08/15/05	11/11/05	02/23/06	05/23/06	08/31/06
GW ELEVATION (a)	25.84	26.28	24.14	26.70	27.68	26.89	25.89
COLLECTED BY	D&B	D&B	D&B	D&B	D&B	D&B	D&B
Constituent							
1,1-Dichloroethene	3J	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND
Chloroform	3J	3J	2J	2J	2J	ND	ND
1,1,1-Trichloroethane	5J	3J	ND	2J	2J	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	21	30	14	27	13	6J	6J
Xylene (total)	ND	ND	ND	ND	3J	ND	ND

ASMW-2							
DATE SAMPLED	02/24/05	05/16/05	08/15/05	11/11/05	02/23/06	05/23/06	08/31/06
GW ELEVATION (a)	25.52	26.37	24.16	26.33	28.30	27.34	26.30
COLLECTED BY	D&B	D&B	D&B	D&B	D&B	D&B	D&B
Constituent							
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND
Methyl acetate	ND	ND	1J	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	100	44	46	69	53	36	29
Xylene (total)	ND	ND	ND	ND	ND	ND	ND

ASMW-3							
DATE SAMPLED	02/24/05	05/16/05	08/15/05	11/11/05	02/23/06	05/23/06	08/31/06
GW ELEVATION (a)	25.54	27.16	25.01	26.99	25.76	27.69	26.54
COLLECTED BY	D&B	D&B	D&B	D&B	D&B	D&B	D&B
Constituent							
Methyl tert-butyl ether	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	2J	ND	ND	1J	ND	1J	ND
Xylene (total)	ND	ND	ND	ND	ND	ND	ND

ASMW-4							
DATE SAMPLED	02/24/05	05/16/05	08/15/05	11/11/05	02/23/06	05/23/06	08/31/06
GW ELEVATION (a)	24.66	25.02	22.64	25.51	26.21	25.18	24.03
COLLECTED BY	D&B	D&B	D&B	D&B	D&B	D&B	D&B
Constituent							
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ND	ND	ND	ND	2J	ND	ND
2-Butanone	ND	4J	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	1J	ND	ND

ASMW-5							
DATE SAMPLED	11/12/04	02/24/05	08/15/05	11/11/05	02/23/06	05/23/06	08/31/06
GW ELEVATION (a)	23.02	24.02	21.62	24.81	25.47	25.37	23.15
COLLECTED BY	D&B	D&B	D&B	D&B	D&B	D&B	D&B
Constituent							
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	ND	ND	ND	ND	ND	ND	ND

ASMW-6						
DATE SAMPLED	05/16/05	08/15/05	11/11/05	02/23/06	05/23/06	08/31/06
GW ELEVATION (a)	23.67	21.11	24.75	25.01	23.61	22.92
COLLECTED BY	D&B	D&B	D&B	D&B	D&B	D&B
Constituent						
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND
Xylene (total)	ND	ND	ND	ND	ND	ND

ASMW-7						
DATE SAMPLED	05/16/05	08/15/05	11/11/05	02/23/06	05/23/06	08/31/06
GW ELEVATION (a)	22.26	17.23	24.01	21.80	21.97	21.78
COLLECTED BY	D&B	D&B	D&B	D&B	D&B	D&B
Constituent						
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND
Xylene (total)	ND	ND	ND	ND	ND	ND

GROUNDWATER MONITORING WELLS				
WELL NUMBER	WELL DEPTH (TOC)	SCREEN LENGTH	GROUND SURFACE ELEVATION (a)	TOP OF CASING ELEVATION (a)
ASMW-1	90'-0"	10'-0"	48.09	47.29
ASMW-2	90'-0"	10'-0"	46.91	46.25
ASMW-3	90'-0"	10'-0"	47.37	46.99
ASMW-4	110'-0"	10'-0"	44.50	44.06
ASMW-5	133'-0"	10'-0"	44.64	44.25
ASMW-6	132'-0"	10'-0"	43.64	43.33
ASMW-7	250'-0"	20'-0"	43.56	43.21

ABBREVIATIONS:
D – DILUTED
J – ESTIMATED
ND – NOT DETECTED

NOTES:
1. GROUNDWATER SAMPLES ANALYZED BY USEPA METHOD OLM 04.2
2. RESULTS REPORTED ONLY FOR COMPOUNDS DETECTED ABOVE MDL.
3. RESULTS ARE REPORTED IN MICROGRAMS PER LITER (ug/l)
4. MEASURED IN FEET ABOVE MEAN SEA LEVEL

LEGEND:
- GROUNDWATER MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- IRRIGATION WELL
- FORMER GROUNDWATER PROBE

FRANKLIN CLEANERS SITE
VILLAGE OF HEMPSTEAD, NEW YORK

MONITORING WELL LOCATION MAP AND SUMMARY OF SAMPLE RESULTS THROUGH AUGUST 2006

FIGURE 2

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

F:\25311\DWG\Quarterly Reports\Quarter 8\FIGURE 2.dwg, Layout1, 10/31/06 03:47:11 PM, PMastorano

ATTACHMENT B

DESCRIPTION OF SYSTEM ALARM CONDITIONS

FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050
SUMMARY OF SYSTEM DOWNTIME

SHUT-OFF DATE/TIME	RESTART DATE/TIME	CAUSE FOR SHUTDOWN
6/19/06 8:03 AM	6/19/06 4:30 PM	Alarm Condition No. 3 - High water level in wet well caused the system to go into alarm. MiniCas #1 reset, submersible pump No. 2 turned on. Also turned on submersible pump No. 1. Drained wet well and restarted system.
6/25/06 3:30 PM	6/26/06 4:00 PM	Alarm Condition No. 3 - High water level in wet well caused the system to go into alarm. MiniCas #1 and #2 reset, however, submersible pumps did not restart. Power to pump control panel turned off and then on again. Submersible pump No. 2 turned on. Drained wet well and restarted system.
6/28/06 11:58 PM	6/30/06 11:25 AM	Alarm Condition No. 3 & 5 - EW-2 failure caused the system to go into alarm. Opened VFD panel and VFD #2 alarm light blinking. Reset VFD #2. Open wet well and water not at high level. (1)Blower Maintenance - Performed routine blower maintenance and restarted system once maintenance was completed.
7/4/06 5:50 PM	7/6/06 3:20 PM	Alarm Condition No. 3 - High water level in wet well caused the system to go into alarm. MiniCas #1 and #2 reset, submersible pump No. 1 turned on. Submersible pump No. 2 turned on manually. Drained wet well and restarted system.
7/19/06 12:51 AM	7/19/06 3:00 PM	Alarm Condition No. 3 - High water level in wet well caused the system to go into alarm. MiniCas #1 and #2 reset, however, submersible pumps did not restart. Power to pump control panel turned off and then on again. Submersible pump No. 1 turned on. Drained wet well and restarted system.
7/21/06 6:15 PM	7/22/06 4:55 PM	Alarm Condition No. 3 - High water level in wet well caused the system to go into alarm. MiniCas #1 and #2 reset, however, submersible pumps did not restart. Power to pump control panel turned off and then on again. Submersible pump No. 2 turned on. Drained wet well and restarted system.
7/22/06 6:40 PM	7/24/06 5:00 PM	Alarm Condition No. 5 - EW-2 failure caused system to go into alarm. Opened VFD panel and VFD #2 alarm light blinking. Reset VFD #2. Restarted system.
7/24/06 7:50 PM	7/25/06 4:30 PM	Alarm Condition No. 3 & 5 - EW-2 failure caused the system to go into alarm. Opened VFD panel and VFD #2 alarm light blinking. Reset VFD #2. Restarted system.
7/25/06 4:45 PM	7/25/06 5:00 PM	Alarm Condition No. 3 & 5 - EW-2 failure caused the system to go into alarm. Opened VFD panel and VFD #2 alarm light blinking. Reset VFD #2. Restarted system.
7/25/06 5:25 PM	(2)--	Alarm Condition No. 3 & 5 - EW-2 failure caused the system to go into alarm. Extraction well EW-2 VFD continues to go into alarm due to an overload condition. Notified NYSDEC and system shut down pending repair of extraction well EW-2.

NOTES:

1. Blower maintenance event performed by EnviroTrac Ltd.
2. System not in operation through remainder of quarter.

ATTACHMENT C

SYSTEM MAINTENANCE REPORTS

MAINTENANCE AND INSPECTION REPORT
FRANKLIN CLEANERS SITE, ROCKVILLE CENTRE, NY

Date: **June 30, 2006**

Name of Personnel Onsite	Title	Time Arrived	Time Departed	Total Hours
Steve Sussman	Sr. Technician	10:30	12:30	2 onsite / 1.5hour prep /travel

Check off Items that were completed:

- ☐ Item 1: Snow Removal
- X Item 2: Pressure Blower Maintenance
- ☐ Item 2A: Pressure Blower Fan Wheel Replacement
- ☐ Item 3: Air Stripper Maintenance
- ☐ Item 4: Carbon Removal and Replacement
- ☐ Item 5: Non-routine Maintenance

Description of Work:

Checked "V" belts on shaft pulley, three belts total, checked tension of "V" belts. Belts found to be in good condition and proper tension. Greased fittings for belt to blower shaft. Greased fitting on Baldor motor. Secured bolts at the belt guard. Removed butterfly valve and flange at blower inlet, inspected fan wheel for rotation and cleanliness. Checked all center mount bolts. Restarted blower.

Name of Part / Supply / Material	Manufacturer	Model Number	Quantity Used
Grease	Mobil	Mobilith AW2	Approx. 0.16 oz

Description of Waste	Volume of Waste	Disposal Facility Name & Address	Transporter Name & Address	Method of Disp.
No Waste				

In signing this I hereby certify that to the best of my knowledge the maintenance and inspection activities performed during this event conform to the requirements specified under contract between EnviroTrac Ltd., and Dvirka and Bartilucci.

6.30-06 . Signature / Print / Date

STEVEN SUSSMAN

MAINTENANCE AND INSPECTION REPORT
FRANKLIN CLEANERS SITE, ROCKVILLE CENTRE, NY

Date: **July 31, 2006**				
Name of Personnel Onsite	Title	Time Arrived	Time Departed	Total Hours
Mike Rose	Field Engineer	8:30 am	10:30 am	2

Check off Items that were completed:

- ☐ Item 1: Snow Removal
- ☐ Item 2: Pressure Blower Maintenance
- ☐ Item 2A: Pressure Blower Fan Wheel Replacement
- ☐ Item 3: Air Stripper Maintenance
- ☐ Item 4: Carbon Removal and Replacement
- **X** Item 5: Non-routine Maintenance

Description of Work:

Stopped by site to troubleshoot EW-2. VFD was shutting down on fault. Pump needs to be pulled from well and attempt to redevelop the recovery well.

Name of Part / Supply / Material	Manufacturer	Model Number	Quantity Used

Description of Waste	Volume of Waste	Disposal Facility Name & Address	Transporter Name & Address	Method of Disp.
No Waste				

In signing this I hereby certify that to the best of my knowledge the maintenance and inspection activities performed during this event conform to the requirements specified under contract between EnviroTrac Ltd., and Dvirka and Bartilucci.

Tony Fiorentino / Tony Fiorentino 10/31/06. Signature / Print / Date

MAINTENANCE AND INSPECTION REPORT
FRANKLIN CLEANERS SITE, ROCKVILLE CENTRE, NY

Date: **August 30, 2006**				
Name of Personnel Onsite	Title	Time Arrived	Time Departed	Total Hours
Kevin Murphy	Project Mgr	8:00	9:00	1
Delta Well & Pump	Driller	9:00	4:00	7

Check off Items that were completed:

- ☐ Item 1: Snow Removal
- ☐ Item 2: Pressure Blower Maintenance
- ☐ Item 2A: Pressure Blower Fan Wheel Replacement
- ☐ Item 3: Air Stripper Maintenance
- ☐ Item 4: Carbon Removal and Replacement
- X Item 5: Non-routine Maintenance

Description of Work:

EnviroTrac subcontracted Delta Well and Pump to pull the submersible pump from the recovery well EW-2, redevelop the well by surging and pumping and put the pump back into the well. Development water was transferred through the remediation system.

Name of Part / Supply / Material	Manufacturer	Model Number	Quantity Used

Description of Waste	Volume of Waste	Disposal Facility Name & Address	Transporter Name & Address	Method of Disp.
No Waste				

In signing this I hereby certify that to the best of my knowledge the maintenance and inspection activities performed during this event conform to the requirements specified under contract between EnviroTrac Ltd., and Dvirka and Bartilucci.

Anthony Fiorentine. Signature / Print / Date Anthony Fiorentine 8-30-06

ATTACHMENT D

ANALYTICAL RESULTS

FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050
RESULTS OF GROUNDWATER SAMPLING

SAMPLE ID	ASMW-1	ASMW-2	ASMW-3	ASMW-4	ASMW-5	ASMW-6	ASMW-7	NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
DATE OF COLLECTION	8/31/2006	8/31/2006	8/31/2006	8/31/2006	8/31/2006	8/31/2006	8/31/2006	
COLLECTED BY	D&B	D&B	D&B	D&B	D&B	D&B	D&B	
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
Dichlorodifluoromethane	U	U	U	U	U	U	U	5 ST
Chloromethane	U	U	U	U	U	U	U	--
Vinyl chloride	U	U	U	U	U	U	U	2 ST
Bromomethane	U	U	U	U	U	U	U	5 ST
Chloroethane	U	U	U	U	U	U	U	5 ST
Trichlorofluoromethane	U	U	U	U	U	U	U	5 ST
1,1-Dichloroethene	U	U	U	U	U	U	U	5 ST
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	U	5 ST
Acetone	U	U	U	U	U	U	U	50 GV
Carbon disulfide	U	U	U	U	U	U	U	60 GV
Methyl acetate	U	U	U	U	U	U	U	--
Methylene chloride	U	U	U	U	U	U	U	5 ST
trans 1,2-Dichloroethene	U	U	U	U	U	U	U	5 ST
Methyl-tert butyl ether	U	U	U	U	U	U	U	10 GV
1,1-Dichloroethane	U	U	U	U	U	U	U	5 ST
cis-1,2-Dichloroethene	U	U	U	U	U	U	U	5 ST
2-Butanone	U	U	U	U	U	U	U	50 GV
Chloroform	U	U	U	U	U	U	U	7 ST
1,1,1-Trichloroethane	U	U	U	U	U	U	U	5 ST
Cyclohexane	U	U	U	U	U	U	U	--
Carbon tetrachloride	U	U	U	U	U	U	U	5 ST
Benzene	U	U	U	U	U	U	U	1 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	0.6 ST
Trichloroethene	U	U	U	U	U	U	U	5 ST
Methylcyclohexane	U	U	U	U	U	U	U	--
1,2-Dichloropropane	U	U	U	U	U	U	U	1 ST
Bromodichloromethane	U	U	U	U	U	U	U	50 GV
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	0.4 ST
4-Methyl-2-pentanone	U	U	U	U	U	U	U	--
Toluene	U	U	U	U	U	U	U	5 ST
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	0.4 ST
1,1,2-Trichloroethane	U	U	U	U	U	U	U	1 ST
Tetrachloroethene	6 J	29	U	U	U	U	U	5 ST
2-Hexanone	U	U	U	U	U	U	U	50 GV
Dibromochloromethane	U	U	U	U	U	U	U	50 GV
1,2-Dibromoethane	U	U	U	U	U	U	U	5 ST
Chlorobenzene	U	U	U	U	U	U	U	5 ST
Ethylbenzene	U	U	U	U	U	U	U	5 ST
Xylene (total)	U	U	U	U	U	U	U	5 ST
Styrene	U	U	U	U	U	U	U	5 ST
Bromoform	U	U	U	U	U	U	U	50 GV
Isopropylbenzene	U	U	U	U	U	U	U	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	U	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	U	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	U	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	5 ST

NOTES:

Concentration exceeds NYSDEC Class GA Groundwater Standards or Guidance Values

ABBREVIATIONS:

ug/L = Micrograms per liter
--: Not established
ST: Standard Value
GV: Guidance Value

QUALIFIERS:

U: Compound analyzed for but not detected
J: Compound found at a concentration below CRDL, value estimated

FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050
RESULTS OF ANALYSIS OF EW-2 INFLUENT

SAMPLE ID	SYSTEM INFLUENT (EW-2)	SYSTEM INFLUENT (EW-2)	SYSTEM INFLUENT (EW-2)	SYSTEM INFLUENT (EW-2)				NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES
SAMPLE TYPE	WATER	WATER	WATER	WATER				
DATE OF COLLECTION	6/5/2006	6/19/2006	7/6/2006	7/17/2006				
COLLECTED BY	D&B	D&B	D&B	D&B				
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)				
VOCs								
Dichlorodifluoromethane	U	U	U	U				5 ST
Chloromethane	U	U	U	U				--
Vinyl chloride	U	U	U	U				2 ST
Bromomethane	U	U	U	U				5 ST
Chloroethane	U	U	U	U				5 ST
Trichlorofluoromethane	U	U	U	U				5 ST
1,1-Dichloroethene	U	U	U	U				5 ST
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U				5 ST
Acetone	U	U	U	U				50 GV
Carbon disulfide	U	U	U	U				60 GV
Methyl acetate	U	U	U	U				--
Methylene chloride	U	U	U	U				5 ST
trans 1,2-Dichloroethene	U	U	U	U				5 ST
Methyl-tert butyl ether	U	U	U	U				10 GV
1,1-Dichloroethane	U	U	U	U				5 ST
cis-1,2-Dichloroethene	U	U	U	U				5 ST
2-Butanone	U	U	U	U				50 GV
Chloroform	U	U	U	U				7 ST
1,1,1-Trichloroethane	U	U	U	U				5 ST
Cyclohexane	U	U	U	U				--
Carbon tetrachloride	U	U	U	U				5 ST
Benzene	U	U	U	U				1 ST
1,2-Dichloroethane	U	U	U	U				0.6 ST
Trichloroethene	U	U	U	U				5 ST
Methylcyclohexane	U	U	U	U				--
1,2-Dichloropropane	U	U	U	U				1 ST
Bromodichloromethane	U	U	U	U				50 GV
cis-1,3-Dichloropropene	U	U	U	U				0.4 ST
4-Methyl-2-pentanone	U	U	U	U				--
Toluene	U	U	U	U				5 ST
trans-1,3-Dichloropropene	U	U	U	U				0.4 ST
1,1,2-Trichloroethane	U	U	U	U				1 ST
Tetrachloroethene	120	120	110	130				5 ST
2-Hexanone	U	U	U	U				50 GV
Dibromochloromethane	U	U	U	U				50 GV
1,2-Dibromoethane	U	U	U	U				5 ST
Chlorobenzene	U	U	U	U				5 ST
Ethylbenzene	U	U	U	U				5 ST
Xylene (total)	U	U	U	U				5 ST
Styrene	U	U	U	U				5 ST
Bromoform	U	U	U	U				50 GV
Isopropylbenzene	U	U	U	U				5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U				5 ST
1,3-Dichlorobenzene	U	U	U	U				3 ST
1,4-Dichlorobenzene	U	U	U	U				3 ST
1,2-Dichlorobenzene	U	U	U	U				3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U				0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U				5 ST

NOTES:

Concentration exceeds NYSDEC Class GA Groundwater Standards or Guidance Values

1: Analysis completed using a dilution factor of 2

ABBREVIATIONS:

ug/L = Micrograms per liter
--: Not established
ST: Standard Value
GV: Guidance Value

QUALIFIERS:

U: Compound analyzed for but not detected
J: Compound found at a concentration below CRDL, value estimated
D: Result taken from reanalysis at a secondary dilution
B: Compound detected in method blank as well as the sample, value estimated
E: Compound concentration exceeds instrument calibration range, value estimated

FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050
RESULTS OF ANALYSIS OF AIR STRIPPER EFFLUENT FOR VOCs

SAMPLE ID	SYSTEM EFFLUENT (AS-1)	SYSTEM EFFLUENT (AS-1)	SYSTEM EFFLUENT (AS-1)	SYSTEM EFFLUENT (AS-1)				EFFLUENT LIMITATIONS	NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES
SAMPLE TYPE	WATER	WATER	WATER	WATER					
DATE OF COLLECTION	6/5/2006	6/19/2006	7/6/2006	7/17/2006					
COLLECTED BY	D&B	D&B	D&B	D&B					
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)				(ug/L)	
Dichlorodifluoromethane	U	U	U	U				--	5 ST
Chloromethane	U	U	U	U				--	--
Vinyl chloride	U	U	U	U				--	2 ST
Bromomethane	U	U	U	U				--	5 ST
Chloroethane	U	U	U	U				--	5 ST
Trichlorofluoromethane	U	U	U	U				--	5 ST
1,1-Dichloroethene	U	U	U	U				--	5 ST
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U				--	5 ST
Acetone	U	U	U	U				--	50 GV
Carbon disulfide	U	U	U	U				--	60 GV
Methyl acetate	U	U	U	U				--	--
Methylene chloride	U	U	U	U				--	5 ST
trans 1,2-Dichloroethene	U	U	U	U				--	5 ST
Methyl-tert butyl ether	U	U	U	U				--	10 GV
1,1-Dichloroethane	U	U	U	U				10	5 ST
cis-1,2-Dichloroethene	U	U	U	U				10	5 ST
2-Butanone	U	U	U	U				--	50 GV
Chloroform	U	U	U	U				--	7 ST
1,1,1-Trichloroethane	U	U	U	U				10	5 ST
Cyclohexane	U	U	U	U				--	--
Carbon tetrachloride	U	U	U	U				--	5 ST
Benzene	U	U	U	U				--	1 ST
1,2-Dichloroethane	U	U	U	U				--	0.6 ST
Trichloroethene	U	U	U	U				10	5 ST
Methylcyclohexane	U	U	U	U				--	--
1,2-Dichloropropane	U	U	U	U				--	1 ST
Bromodichloromethane	U	U	U	U				--	50 GV
cis-1,3-Dichloropropene	U	U	U	U				--	0.4 ST
4-Methyl-2-pentanone	U	U	U	U				--	--
Toluene	U	U	U	U				--	5 ST
trans-1,3-Dichloropropene	U	U	U	U				--	0.4 ST
1,1,2-Trichloroethane	U	U	U	U				--	1 ST
Tetrachloroethene	U	U	U	U				5	5 ST
2-Hexanone	U	U	U	U				--	50 GV
Dibromochloromethane	U	U	U	U				--	50 GV
1,2-Dibromoethane	U	U	U	U				--	5 ST
Chlorobenzene	U	U	U	U				--	5 ST
Ethylbenzene	U	U	U	U				--	5 ST
Xylene (total)	U	U	U	U				--	5 ST
Styrene	U	U	U	U				--	5 ST
Bromoform	U	U	U	U				--	50 GV
Isopropylbenzene	U	U	U	U				--	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U				--	5 ST
1,3-Dichlorobenzene	U	U	U	U				--	3 ST
1,4-Dichlorobenzene	U	U	U	U				--	3 ST
1,2-Dichlorobenzene	U	U	U	U				--	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U				--	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U				--	5 ST

NOTES:

Concentration exceeds NYSDEC Class GA Groundwater Standards or Guidance Values

ABBREVIATIONS

ug/L = Micrograms per liter
--: Not established
ST: Standard Value
GV: Guidance Value

QUALIFIERS:

U: Compound analyzed for but not detected
J: Compound found at a concentration below CRDL, value estimated
U*: Result qualified as non-detect due to validation criteria.

FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050
RESULTS OF ANALYSIS OF AIR STRIPPER EFFLUENT IRON, MANGANESE AND pH

SAMPLE ID	SYSTEM EFFLUENT (AS-1)	SYSTEM EFFLUENT (AS-1)	SYSTEM EFFLUENT (AS-1)	SYSTEM EFFLUENT (AS-1)				EFFLUENT LIMITATIONS
SAMPLE TYPE	WATER	WATER	WATER	WATER				
DATE OF COLLECTION	6/5/2006	6/19/2006	7/6/2006	7/17/2006				
COLLECTED BY	D&B	D&B	D&B	D&B				
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)				(ug/L)
METALS								
Iron	163 B	**1,080**	**2,890**	U				1000
Manganese	24.2 B	67.1	155	22.4 B				1000
pH (S.U.)	7.2	7.3	7.3	7.5				6.5 to 8.5

ABBREVIATIONS:

ug/L: Micrograms per liter

QUALIFIERS:

B: Concentration is greater than the instrument detection limit (IDL) but less than the Contract Required Detection Limit (CRDL)
*: Result qualified as suspect based on validation criteria.

FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050
VAPOR PHASE SAMPLE RESULTS

SAMPLE ID	CARBON VESSEL NO. 1 INFLUENT	CARBON VESSEL NO. 1 EFFLUENT	CARBON VESSEL NO. 2 INFLUENT	CARBON VESSEL NO. 2 EFFLUENT
SAMPLE TYPE	AIR	AIR	AIR	AIR
COLLECTED BY	D&B	D&B	D&B	D&B
UNITS	(ppm)	(ppm)	(ppm)	(ppm)
DATE OF COLLECTION	***PID Reading***	***PID Reading***	***PID Reading***	***PID Reading***
June 5, 2006	0.0	0.0	0.0	0.0
June 13,2006	0.0	0.0	0.0	0.0
June 19, 2006	0.0	0.0	0.0	0.0
June 26, 2006	0.0	0.0	0.0	0.0
July 6, 2006	0.0	0.0	0.0	0.0
July 11, 2006	0.0	0.0	0.0	0.0
July 17, 2006	0.0	0.0	0.0	0.0
July 24, 2006	0.0	0.0	0.0	0.0

NOTES:

Samples were collected by filling a Tedlar bag at each of the sampling locations. Samples were tested using a handheld photoionization detector (PID).

ATTACHMENT E

PERFORMANCE SUMMARY

FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050
EXTRACTION AND TREATMENT SYSTEM PERFORMANCE RESULTS

DATE OF SAMPLE COLLECTION [1]	SYSTEM INFLUENT (EW-1) AVERAGE EXTRACTION RATE (gpm)	SYSTEM INFLUENT (EW-1) PCE CONCENTRATION (ug/l)	SYSTEM INFLUENT (EW-2) AVERAGE EXTRACTION RATE (gpm)	SYSTEM INFLUENT (EW-2) PCE CONCENTRATION (ug/l)	SYSTEM EFFLUENT (AS-1) PCE CONCENTRATION (ug/l)	PCE REMOVAL EFFICIENCY (%)	ESTIMATED AVERAGE PCE REMOVAL RATE (lb/hr)	ESTIMATED SYSTEM RUNTIME (hr)	ESTIMATED CUMULATIVE PCE REMOVAL [2] (lbs)
6/9/2004	36.10	47	3.40	290 JD	< 0.5	99.26	1.34E-03	352	15.84
6/30/2004	37.70	25 J	3.90	180 JD	< 0.5	98.74	8.23E-04	490	16.24
7/15/2004	37.10	34 J	3.50	150 JD	< 0.5	98.86	8.95E-04	361	16.56
7/28/2004	35.60	40	3.20	260 D	< 0.5	99.14	1.13E-03	314	16.92
8/11/2004	36.30	25	3.30	180	< 0.5	98.68	7.52E-04	305	17.15
8/25/2004	35.40	31	3.60	230 JD	< 0.5	98.99	9.64E-04	314	17.45
11/1/2004	35.40	35	3.00	270 D	< 0.5	99.06	1.03E-03	1554	19.04
11/22/2004	36.20	37	3.00	270 D	< 0.5	99.09	1.08E-03	424	19.95 [4]
12/13/2004	36.30	36	3.10	68	< 0.5	98.70	7.60E-04	502	20.34
12/27/2004	36.00	36	2.70	260 D	< 0.5	99.03	1.00E-03	343	20.68
1/10/2005	35.80	42	3.30	370 D	< 0.5	99.28	1.36E-03	328	21.13
1/25/2005	36.40	38	3.10	280 D	1 J	98.25	1.11E-03	307	21.47
2/8/2005	36.50	32	3.00	240	< 0.5	98.95	9.45E-04	331	21.78
2/23/2005	36.20	44	2.80	220 D	< 0.5	99.12	1.11E-03	328	22.30 [4]
3/7/2005	35.80	41	2.80	290 D	< 0.5	99.15	1.14E-03	154	22.48
3/21/2005	36.60	34	3.00	190 D	< 0.5	98.91	9.09E-04	227	22.68
4/5/2005	35.80	29	3.20	190	< 0.5	98.82	8.24E-04	282	22.91
4/19/2005	35.60	33	2.70	210 D	< 0.5	98.90	8.72E-04	337	23.21
5/2/2005	36.20	31	2.60	230 D	< 0.5	98.87	8.61E-04	310	23.48
5/16/2005	37.00	33	2.40	220	< 0.5	98.87	8.76E-04	710	24.10 [4]
6/6/2005	34.70	27	2.80	190	< 0.5	98.72	7.36E-04	74	24.15
6/20/2005	36.90	32	2.60	150 D	< 0.5	98.74	7.87E-04	279	24.37
7/5/2005	35.70	26	2.50	220 E	1 J	97.42	2.98E-03	358	25.44
7/25/2005	36.20	26	2.20	180 D	< 0.5	98.56	6.70E-04	392	25.70
8/8/2005	36.20	21 B	2.70	120 B	< 0.5	98.21	5.43E-04	239	25.83
8/31/2005	35.30	24	2.50	180	< 0.5	98.54	6.50E-04	525	26.17 [4]
9/12/2005	38.00	21	2.40	170	< 0.5	98.33	6.04E-04	192	26.29
9/26/2005	37.00	26	2.00	160 D	< 0.5	98.48	6.42E-04	310	26.49
10/10/2005	36.50	19	2.00	160	< 0.5	98.10	5.08E-04	313	26.65
10/24/2005	37.40	24	2.40	150	< 0.5	98.42	6.30E-04	300	26.84
11/8/2005	37.80	26	2.60	190 D	< 0.5	98.63	7.40E-04	306	27.06
11/21/05[5]	37.80	26	2.00	200	< 0.5	98.56	4.92E-04 2.00E-04	136 507	27.23 [4]
12/5/2005	0.00	NS	1.60	170	< 0.5	99.71	1.36E-04	106	27.25
12/21/2005	0.00	NS	3.00	140	< 0.5	99.64	2.10E-04	241	27.30
1/4/2006	0.00	NS	2.80	180	< 0.5	99.72	2.52E-04	340	27.38
1/24/2006	0.00	NS	2.80	160	< 0.5	99.69	2.24E-04	462	27.49
2/6/2006	0.00	NS	2.40	160	< 0.5	99.69	1.92E-04	311	27.55
2/21/2006	0.00	NS	3.10	180	< 0.5	99.72	2.79E-04	425	27.55 [4]
3/7/2006	0.00	NS	2.90	140	< 0.5	99.64	2.03E-04	154	27.58
3/22/2006	0.00	NS	3.00	160	< 0.5	99.69	2.40E-04	361	27.66
4/3/2006	0.00	NS	2.80	82	< 0.5	99.39	1.15E-04	287	27.70
4/18/2006	0.00	NS	2.90	120	< 0.5	99.58	1.74E-04	363	27.76
5/9/2006	0.00	NS	3.10	100	< 0.5	99.50	1.55E-04	481	27.84
5/22/2006	0.00	NS	3.00	130	< 0.5	99.62	1.95E-04	312	27.90 [4]
6/5/2006	0.00	NS	2.60	120	< 0.5	99.58	1.56E-04	337	27.95
6/19/2006	0.00	NS	2.70	120	< 0.5	99.58	1.62E-04	327	28.00
7/6/2006	0.00	NS	3.10	110	< 0.5	99.55	1.71E-04	301	28.05
7/17/2006	0.00	NS	3.00	130	< 0.5	99.62	1.95E-04	354	28.12 [4]

NOTES:

1. Data from 9/23/03 through 8/25/04 reported by URS Corporation.
2. PCE removal calculations as of September 9, 2003 system start-up date.
3. Performance results for the reporting period are shaded.
4. Estimated through the end of the reporting period.
5. Results show removal efficiency and runtimes for both EW-1 and EW-2

ABBREVIATIONS:

gpm: gallons per minute
ug/L: micrograms per liter
lb/hr: pounds per hour
NS: Not sampled

QUALIFIERS:

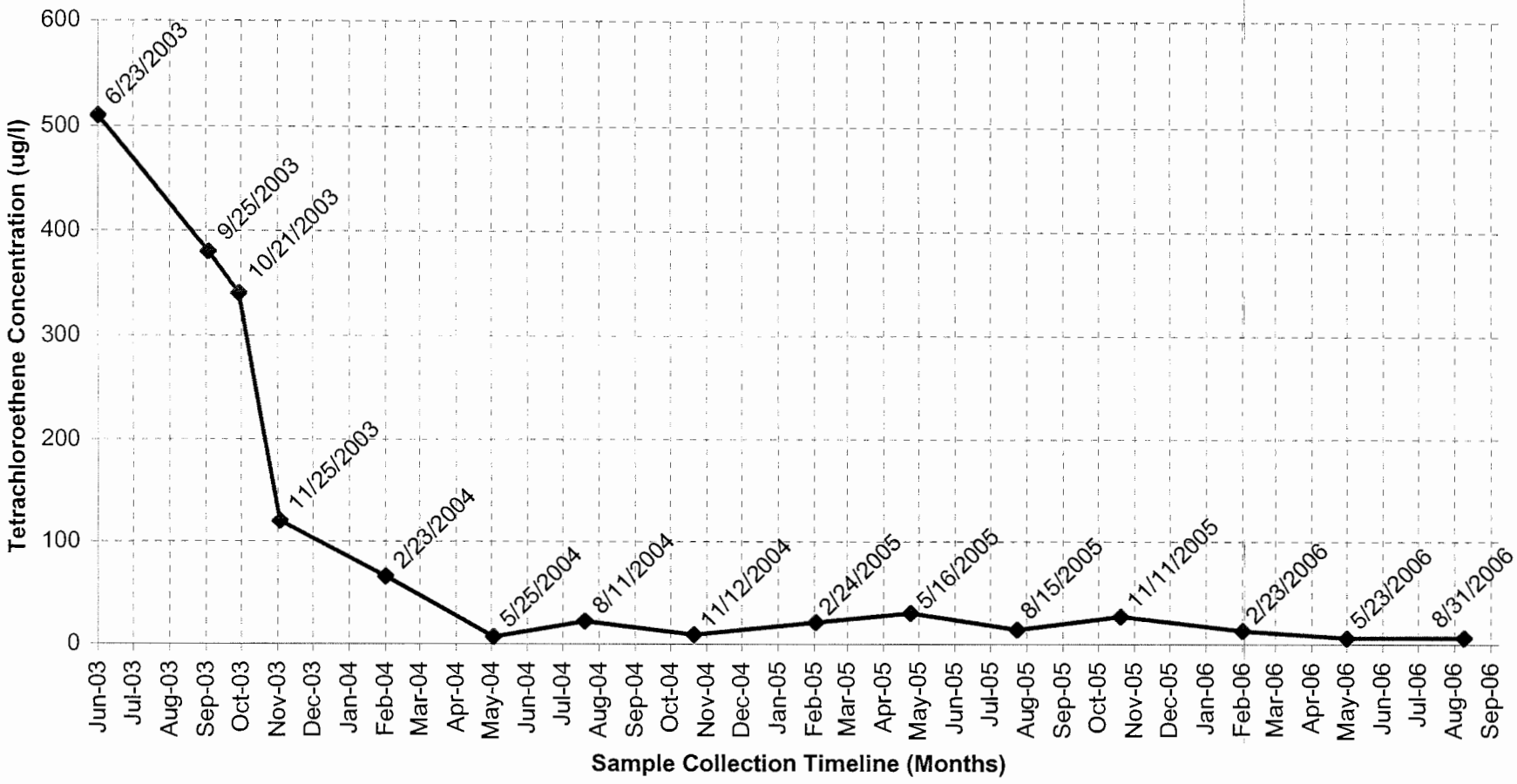
D: Result taken from reanalysis at a secondary dilution
J: Compound found at a concentration below CRDL, value estimated
B: Compound detected in method blank as well as the sample, value estimated
E: Compound concentration exceeds instrument calibration range, value estimated

ATTACHMENT F

MONITORING WELL TREND LINE GRAPHS

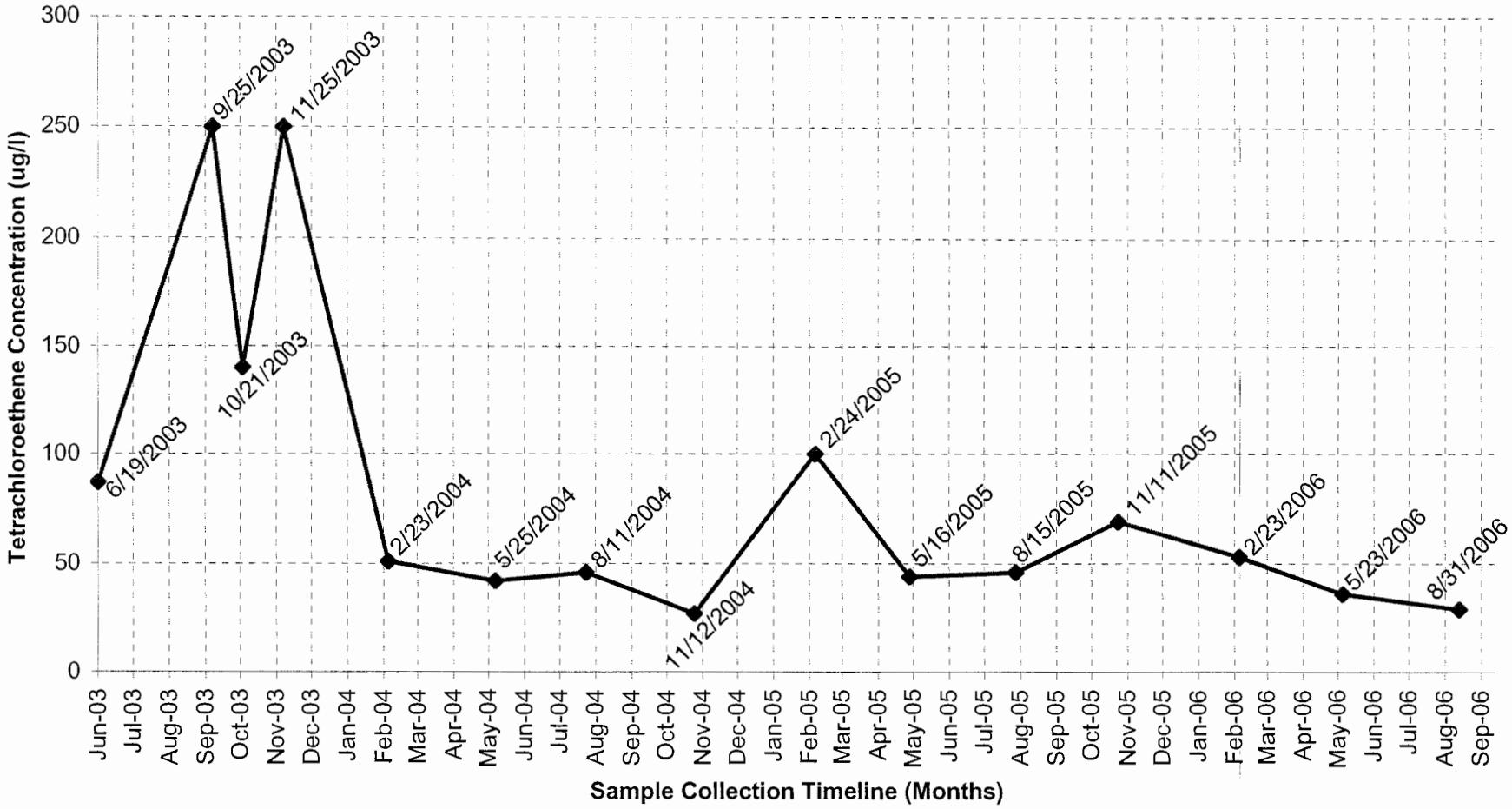
GRAPH 1

Franklin Cleaners Site
NYSDEC Contract No. D004264 / Site No. 1-30-050
Groundwater Monitoring Well ASMW-1



GRAPH 2

Franklin Cleaners Site
NYSDEC Contract No. D004264 / Site No. 1-30-050
Groundwater Monitoring Well ASMW-2



GRAPH 3

Franklin Cleaners Site
NYSDEC Contract No. D004264 / Site No. 1-30-050
Groundwater Monitoring Well ASMW-3