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July 15, 2011

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Mr. David Gardner
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. D004446-01
Quarterly Report No. 26
D&B No. 2531-08

Dear Mr. Gardner:

Quarterly Report (No. 26) presents a summary of the quarterly purpose of this letter is to summarize the quarterly operation, maintenance, monitoring and sampling activities performed at the off-site Franklin Cleaners groundwater extraction and treatment system (see Attachment A, Figure 1), for the period beginning December 1, 2010 through February 28, 2011.

Operation, maintenance, system monitoring and sampling activities were conducted by a New York State Department of Environmental Conservation (NYSDEC) call-out contractor, Environmental Assessment and Remediations (EAR), under direct contract with the NYSDEC. Reporting, data management and assessment, and additional engineering/technical evaluation services were performed by Dvirka and Bartilucci Consulting Engineers (D&B).

Presented below is a summary of the system operation and maintenance completed during the quarter, as well as the analytical results and interpretation of the sample collection and analysis completed during this reporting period at the off-site Franklin Cleaners groundwater extraction and treatment system. Note that groundwater monitoring well sample data is discussed in the Groundwater Sampling Report No. 4. In addition, a Site Management Plan (SMP) for the off-site Franklin Cleaners groundwater extraction and treatment system is currently being prepared by D&B.

Mr. David Gardner
Division of Environmental Remediation
New York State Department of Environmental Conservation
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Groundwater Extraction and Treatment System Operation and Maintenance

During this period, extraction well EW-1 operated at an average pumping rate of 31.3 gallons per minute (gpm) and extraction well EW-2 operated at an average pumping rate of 7.0 gpm. Note, due to repeated malfunctions of the EW-2 flow meter, which is likely caused by iron buildup and fouling, the extraction well flow meter did not record accurate flow rate or total flow measurements from January 4, 2011 through the end of this reporting period. Periodic disassembly and cleaning of the influent flow meter paddle wheels has been completed since Quarter 21; however, this has not been effective at correcting this issue. As directed by the NYSDEC, the EW-2 flow meter will no longer be periodically cleaned and will not be replaced at this time.

Normalized graphs of the average flow rate for EW-1 and EW-2 since September 2006 are presented in Attachment B. Based on a review of the data, the flow rate for EW-1 continues to exhibit an overall slightly decreasing trend, while the flow rate for EW-2 exhibits an overall slightly increasing trend. EW-1's slightly decreasing trend may be attributable to iron buildup at the well screen and/or slight pump wear over time.

Approximately 1.0 pound of tetrachloroethene (PCE) was removed from the extracted groundwater by the treatment system during this reporting period and approximately 42.73 pounds of PCE have been removed since start-up of the treatment system in September 2003. The average PCE removal efficiency for this reporting period was greater than 99 percent. A graph of the average PCE removal rate is provided in Attachment C. Overall, the PCE removal rate is exhibiting a very slightly decreasing trend, which may be attributable to a shift in the plume location. As detailed below, it is recommended to install up to five temporary Geoprobe wells to the south and west of the treatment system building in order to define the current plume location, which may have shifted since system startup.

Based on measurements recorded at the treatment system discharge flow meter, approximately 7,526,000 gallons of treated groundwater were discharged to the Nassau County Department of Public Works (NCDPW) storm sewer system during this reporting period. This volume is inconsistent with data collected from the influent flow meters for EW-1 and EW-2, which recorded a combined total flow of approximately 4,840,800 gallons of groundwater entering the treatment system. Note that the total gallons pumped for EW-2 was approximated based on the last recorded volume and the average flow rate at the beginning of the reporting period.

During this reporting period, the groundwater extraction and treatment system was operational for a total of approximately 2,150 hours and inoperative for a total of approximately 10 hours due to system alarm conditions, routine system maintenance and non-routine system maintenance.

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One system shutdown alarm condition, likely related to severe weather conditions and associated electrical interruptions, and one system shutdown alarm condition due to a general failure of extraction well EW-1's VFD, were responded to during this reporting period. On both occasions the treatment system was restarted and no system maintenance was required.

Routine system maintenance performed during this reporting period included blower maintenance on January 6 and February 17, 2011. Note that during the January 6, 2011 blower maintenance event, EAR reported that the center fan belt may need to be replaced in the near future.

Non-routine system maintenance performed during this reporting period included the following:

- Maintenance of influent flow sensor for EW-2 on December 22, 2010; and
- Removal of snow around gate/site entrance on December 27, 2010, and January 13, January 28 and February 2, 2011.

A copy of the Site Activities Logs, System Monitoring Logs and a System Operations and Downtime Log for this reporting period, which includes a summary of system maintenance events and alarm responses as prepared by EAR, are provided in Attachment D. A table summarizing the routine maintenance events completed this reporting period and the scheduled routine maintenance events for Quarter 27 is provided in Attachment E.

Groundwater Extraction and Treatment System Sampling

Groundwater samples were collected from the EW-1 and EW-2 well influent piping sample taps, as well as from the air stripper (liquid) discharge sample tap, at a frequency of twice per month during each of the 3 months comprising this reporting period. Each sample was analyzed for volatile organic compounds (VOCs) utilizing United States Environmental Protection Agency (USEPA) Method 624. In addition, the samples collected from the air stripper discharge sample tap were also analyzed for iron and manganese utilizing USEPA Method 6010 and for pH utilizing USEPA Method 9040.

The analytical results of samples collected from the aqueous phase system influent are compared to the New York State Department of Environmental Conservation (NYSDEC) Class GA Groundwater Standards and Guidance Values, and the analytical results of samples collected from the aqueous phase air stripper discharge are compared to the site-specific NYSDEC State Pollutant Discharge Elimination System (SPDES) permit equivalency effluent limitations. Analytical results are presented in Attachment F.

Based on review and evaluation of the analytical results of groundwater samples collected from extraction well EW-1, PCE was detected at concentrations ranging from 16.0 micrograms per liter (ug/l) to a maximum of 19.0 ug/l, detected on February 24, 2011. Groundwater samples collected from extraction well EW-2 exhibited PCE concentrations ranging from 51.0 ug/l to a maximum of

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60.0 ug/l, detected on February 24, 2011. The NYSDEC Class GA Standard for PCE is 5.0 ug/l. Based on the maximum concentrations detected and extraction well flow rates for EW-1 (33.4 gpm) and EW-2 (7.0 gpm), extraction well EW-1 is removing PCE at a rate of 3.01×10^{-4} pounds per hour (lb/hr) and extraction well EW-2 is removing PCE at a rate of 2.04×10^{-4} lb/hr.

The analytical results for the aqueous phase discharge samples collected this reporting period exhibited VOCs and metals concentrations below the effluent limitations. It should also be noted that while the effluent VOCs were detected at concentrations well below the effluent limits, concentrations of PCE ranging from 0.13 ug/l to a maximum of 0.24 ug/l were detected in discharge water. The site-specific effluent limit for PCE is 5.0 ug/l. Laboratory analyzed pH values were detected at concentrations within the site-specific effluent range of 6.5 to 8.5; however, the field readings collected from the wet well on December 2, 2010 (8.97) and January 28 (6.48) and February 3, 2011 (4.89) exhibited pH values slightly above and below the site specific effluent range.

A summary of the extraction and treatment system performance results since March 2009 is provided in Attachment G.

Vapor phase samples were collected from the two carbon adsorption unit influent and effluent sample taps at a general frequency of once per week. Each sample was collected by filling a Tedlar bag directly from each of the influent and effluent sample taps located on the two carbon adsorption units. The samples were screened using a calibrated, hand-held photoionization detector (PID). During this reporting period, PID readings collected from the influent of Carbon Vessel No. 1 vapor phase influent ranged from 0.0 parts per million (ppm) to 22.0 ppm, while PID readings collected from the Carbon Vessel No. 1 effluent ranged from 0.0 ppm to 38.2 ppm. Both maximum concentrations were detected on February, 3 2011. PID readings collected from the influent of Carbon Vessel No. 2 vapor phase influent ranged from 0.0 ppm to 10.7 ppm, while PID readings collected from the Carbon Vessel No. 2 effluent ranged from 0.0 ppm to 25.0 ppm. Both maximum concentrations were detected on February 3, 2011.

The NYSDEC was immediately notified of the PID reading exceedances upon review of the data. In addition, and as recommended below, EAR's sample technicians should notify the NYSDEC and D&B if an effluent exceedance is noted during future monitoring events.

Based on these PID exceedances, D&B recommended vapor phase samples be collected from the carbon adsorption system lead-influent, lead-effluent and lag-effluent sample taps for laboratory analysis of VOCs by USEPA Method TO-15. Vapor phase effluent samples were collected on February 3, 2011. The results of the vapor phase samples analysis are provided in Attachment F. Based on review and evaluation of the analytical results, several VOCs, including PCE, were detected. PCE was detected at the lead-influent, lead-effluent and lag-effluent at concentrations of 210 micrograms per cubic meter (ug/m^3) (32 parts per billion [ppb]), $130 \text{ ug}/\text{m}^3$ (19 ppb) and $180 \text{ ug}/\text{m}^3$ (27 ppb), respectively, and total VOCs were detected at concentrations of 40.2 ppb,

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21.0 ppb and 29.0 ppb, respectively. Based on the PCE results, the lead vapor phase carbon adsorption vessel is capturing PCE at a rate of 40%, while the lag vapor phase carbon adsorption vessel is not capturing any PCE. In addition, based on the total VOC laboratory analytical results compared to the total VOC PID readings collected in the field, the PID readings appear to be biased high and are generally erratic, and may be indicative of a malfunction with the PID. However, based on the reduced ability of the Granular Activated Carbon (GAC) to capture PCE, the GAC is exhausted. It was initially recommended to replace the GAC material; however, based on the NYSDEC's evaluation of the laboratory-analyzed effluent vapor samples, the NYSDEC has decided to remove the GAC material and vent the effluent vapor directly to the atmosphere, with no GAC treatment.

Data Validation

All samples collected during this quarter have been analyzed by Test America Laboratories (TAL), located in Shelton, CT. The biweekly aqueous phase system samples and the vapor phase samples were analyzed for VOCs. In addition, the aqueous phase effluent sample (AS-1) was analyzed for iron, manganese and pH. The data packages submitted to TAL 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.

It should be noted that the samples collected on February 24, 2011 were analyzed on two separate occasions by the laboratory. The original analysis was inadvertently analyzed utilizing the incorrect sample IDs. In order to confirm the results of the original analysis, the samples were reanalyzed outside of their holding times, and the results were used to validate the sample IDs from the original analysis. The results reported are from the revised original sample analysis.

Data Validation Checklists are presented in Attachment H.

Findings

Based on the results of the performance monitoring conducted during this reporting period, D&B offers the following findings:

- The analytical results of the system influent samples show that groundwater extraction wells EW-1 and EW-2 continue to capture VOC-contaminated groundwater at an average combined total flow rate of 38.3 gpm, which is greater than the minimum required pumping rate of 20 gpm, as specified in the December 2000 Groundwater Extraction and Treatment System Design Report.

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- Inconsistencies were again noted between the influent total gallons pumped for EW-1 and EW-2 and the treatment system discharge total gallons pumped. The flow meters continue to intermittently malfunction and non-routine cleaning and maintenance of the flow meters does not appear to be an effective remedy.
- The laboratory and field screening of the effluent water continues to detect intermittent pH values above and below the site specific effluent range of 6.5 to 8.5.
- Based on the influent mass loading rate and the blower air flow rate, the carbon vessels are currently being loaded at a maximum rate of approximately 5.05×10^{-4} lbs of PCE/hr. Given an average blower flow rate of 630 ft³/min, this equates to a maximum influent PCE air concentration of 0.03 ppm.
- The PID readings collected from the carbon vessel effluent sample taps during this reporting period consistently exhibited total VOCs greater than the site specific effluent limit of 1.0 ppm. Note that the vapor phase laboratory analyzed air samples collected from the lead-influent, lead-effluent and lag-effluent carbon vessel sample taps exhibited total VOC concentrations of 40.2 ppb, 21.0 ppb and 29.0 ppb, which are not consistent with the collected PID readings and may indicate a malfunction with the PID used for the measurements.
- The vapor phase laboratory analyzed air samples collected from the lead-influent, lead-effluent and lag-effluent carbon vessel sample taps exhibited relatively similar PCE concentrations. Based on the concentrations, the lead carbon vessel is removing approximately 40% of the influent PCE, while the lag vessel is not removing any PCE.
- A new DER-10 document, dated May 2010, has been implemented since the March 1998 ROD was issued.
- The toxicity data, cleanup levels and remedial action objectives, as defined in the March 1998 ROD, remain unchanged.

Recommendations

Based on the results of performance monitoring conducted during this reporting period, D&B offers the following recommendations:

- Continue operation of the groundwater extraction and treatment system to minimize downgradient migration of PCE, currently being captured by the system.
- It is recommended that the NYSDEC call-out contractor diagnose the inconsistencies noted between the influent and effluent flow meters or replace the paddle-style flow meters with mag-style flow meters.

Dvirka and Bartilucci

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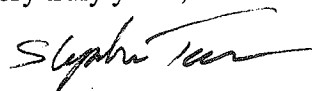
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- It is recommended to continue field monitoring of the influent and effluent pH and closely monitor the results. If field monitoring effluent pH values are consistently detected outside of the effluent limit range of 6.5 to 8.5, it may be warranted to perform a post-treatment pH adjustment of the effluent water.
- Based on the observed inconsistency noted between the laboratory analyzed and PID vapor phase total VOC concentrations, it is recommended to further investigate these inconsistencies and/or diagnose any instrument malfunctions.
- Based on the NYSDEC's evaluation of the laboratory-analyzed effluent vapor samples, the NYSDEC has decided to remove the GAC material and vent the effluent vapor directly to the atmosphere, with no GAC treatment. As such, it is recommended to collect effluent vapor samples for laboratory analysis by Method TO-15 on a monthly basis.
- Install and sample up to five temporary Geoprobe wells to the south and west of the treatment system building in order to more accurately define the current location of the PCE plume. Based on the results of the temporary well sampling, it may be warranted to install additional permanent monitoring wells in these areas and/or modify the current extraction well configuration in order to ensure the entire plume is captured and monitored.

Please do not hesitate to contact me at (516) 364-9890, Ext. 3094, if you have any questions.

Very truly yours,



Stephen Tauss
Project Manager

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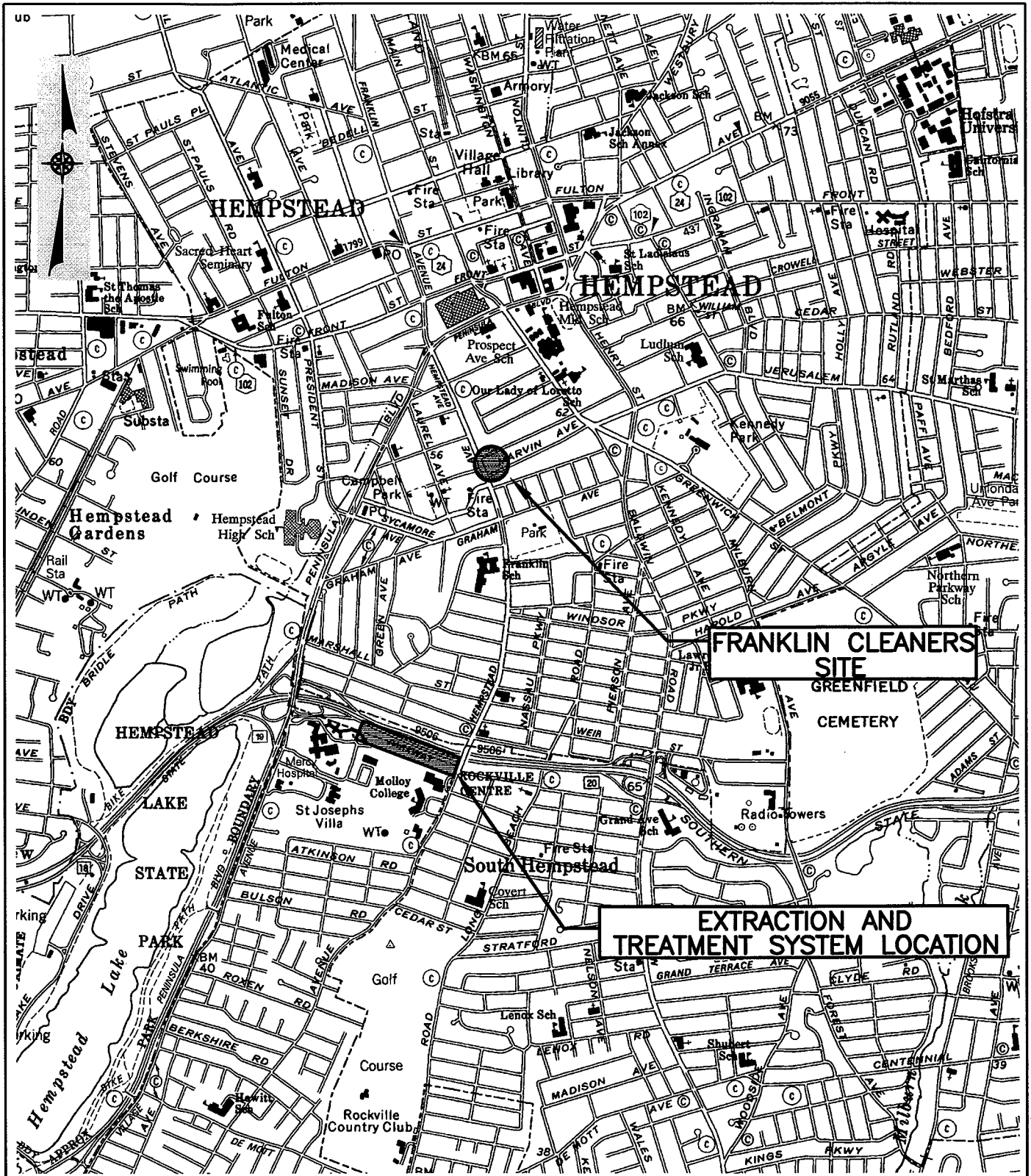
Attachments

cc: J. Trad (NYSDEC)
J. Multari (Molloy College)
J. Neri (H2M)
R. Walka (D&B)
F. DeVita (D&B)
P. Martorano (D&B)

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ATTACHMENT A

FIGURES



SOURCE: USGS FREEPORT AND LYNBROOK QUADRANGLES



FRANKLIN CLEANERS SITE
VILLAGE OF HEMPSTEAD, NEW YORK

SITE LOCATION MAP

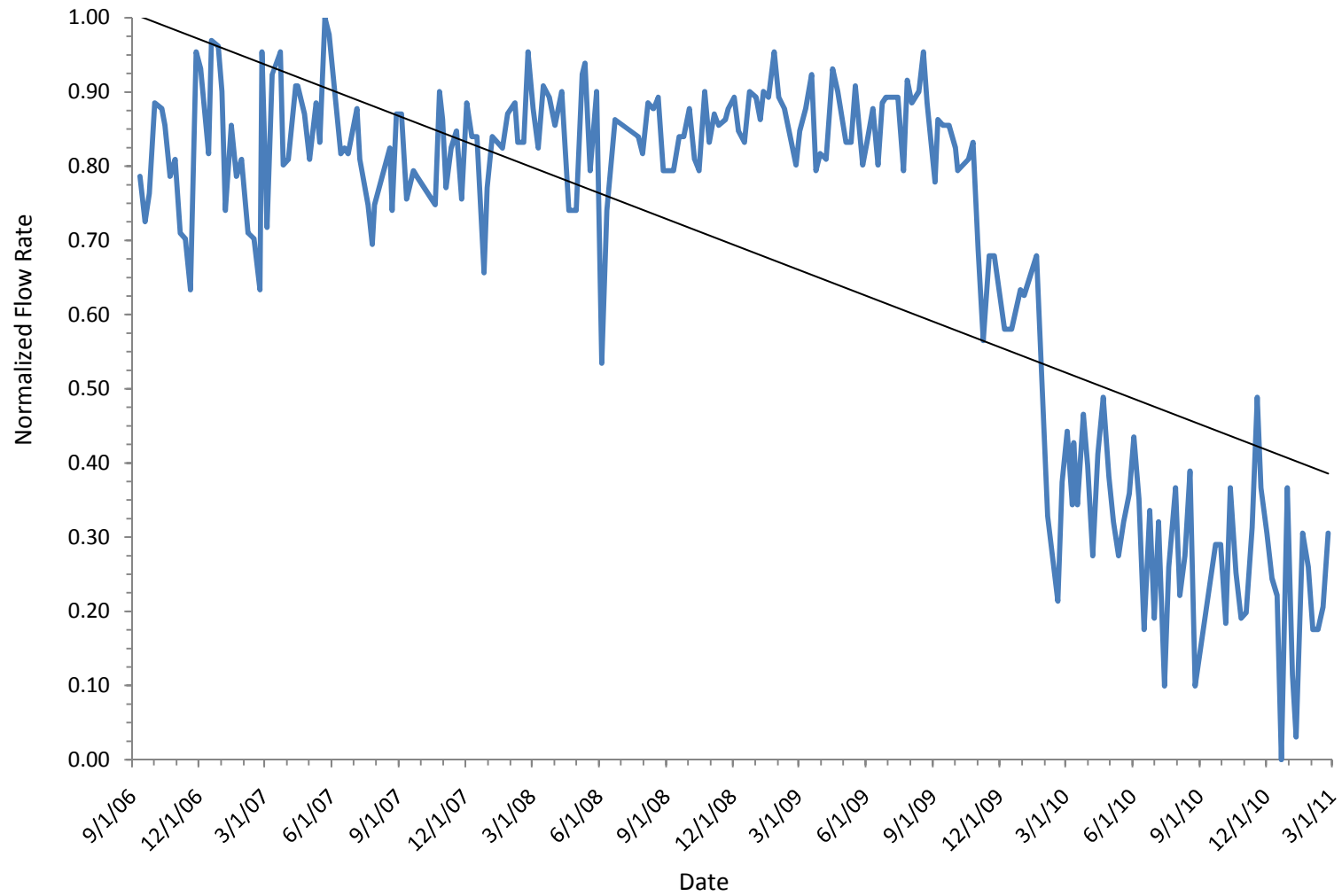


FIGURE 1

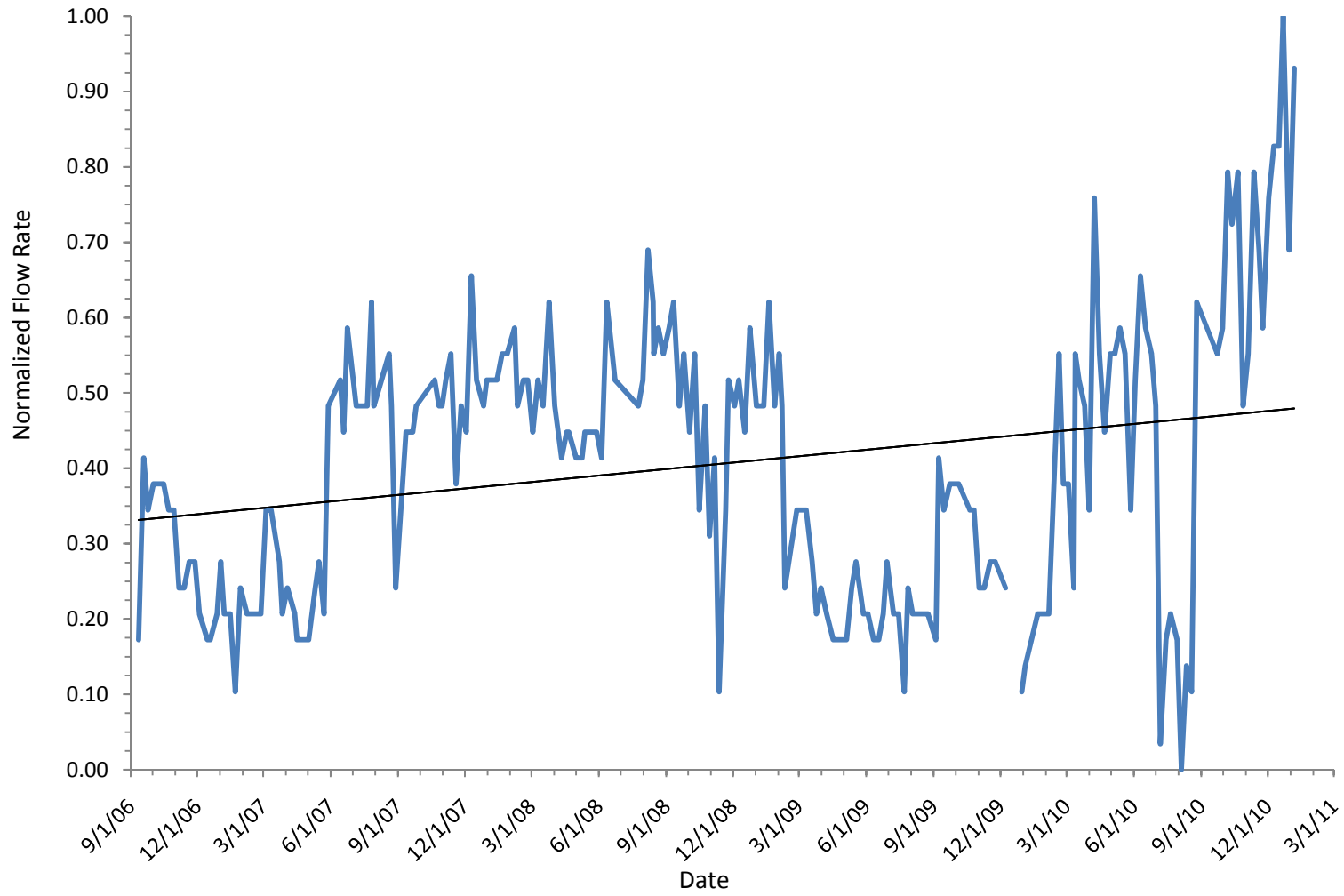
ATTACHMENT B

**NORMALIZED EXTRACTION WELL
FLOW RATE GRAPHS**

**FRANKLIN CLEANERS SITE
NYSDEC CONTRACT NO. D004446 / SITE NO. 1-30-050
NORMALIZED GRAPH OF AVERAGE FLOW RATE FOR EW-1**



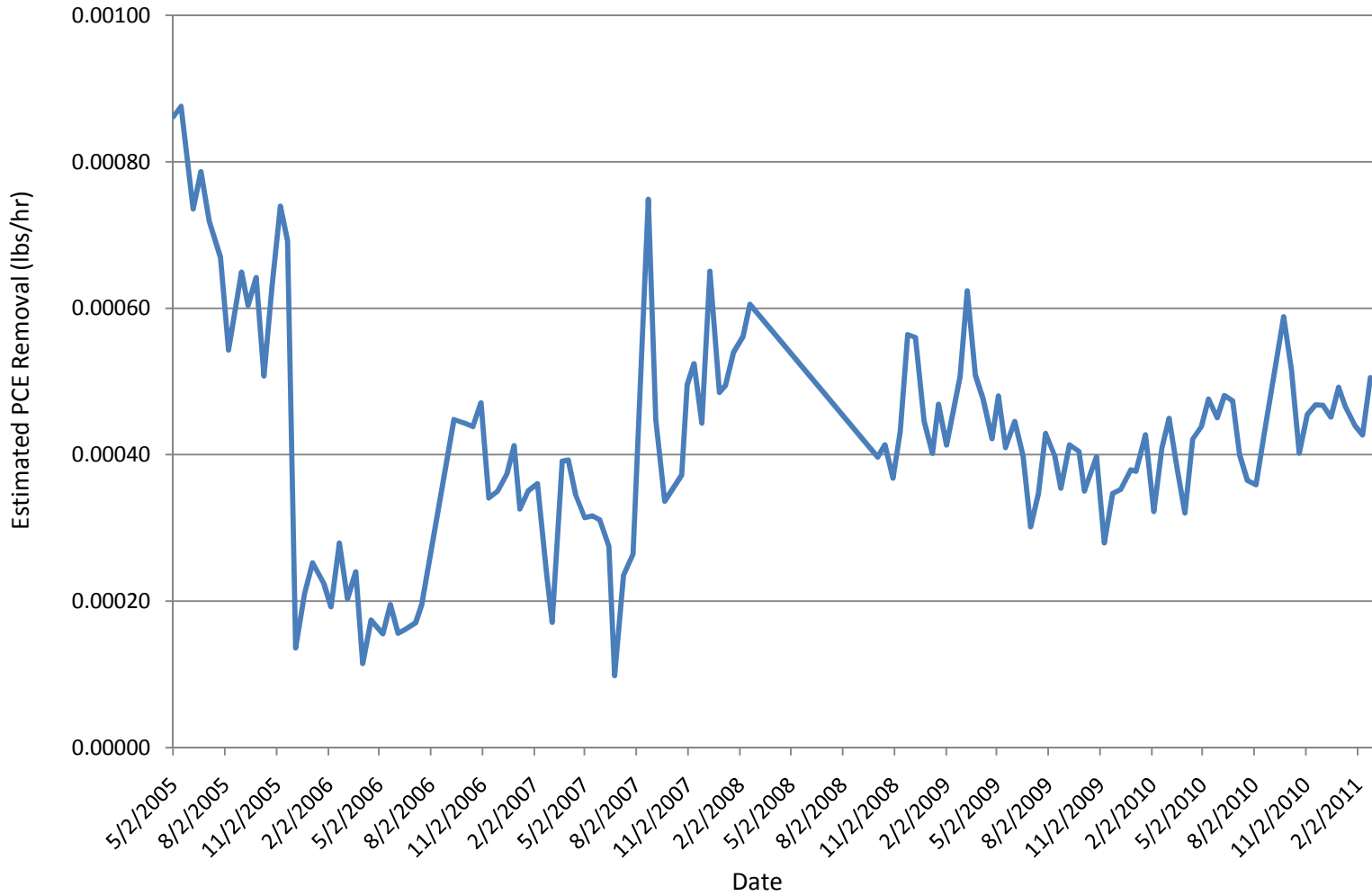
FRANKLIN CLEANERS SITE
NYSDEC CONTRACT NO. D004446 / SITE NO. 1-30-050
NORMALIZED GRAPH OF AVERAGE FLOW RATE FOR EW-2



ATTACHMENT C

AVERAGE PCE REMOVAL RATE GRAPH

FRANKLIN CLEANERS SITE
NYSDEC CONTRACT NO. D004446 / SITE NO. 1-30-050
ESTIMATED AVERAGE PCE REMOVAL RATE



ATTACHMENT D

SITE LOGS

**FRANKLIN CLEANERS SITE, NYSDEC SITE NO. 1-30-050
SITE ACTIVITIES LOG**

PERSONNEL ON-SITE	DATE/TIME ON-SITE	TIME OFFSITE	REASON FOR SITE VISIT (CHECK BOX BELOW)		
PL + GW	11/30/10 0815	1300	<input checked="" type="checkbox"/>	Monitoring	<input type="checkbox"/> Maintenance
			<input checked="" type="checkbox"/>	Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/>	Alarm Response	
Description: Day 2 GWS.					
KS	12/2/10 0845	1245	<input checked="" type="checkbox"/>	Monitoring	<input checked="" type="checkbox"/> Maintenance
			<input checked="" type="checkbox"/>	Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/>	Alarm Response	
Description: WEEKLY site check, BI weekly sampling.					
KS	12/9/10 0930	1145	<input checked="" type="checkbox"/>	Monitoring	<input type="checkbox"/> Maintenance
			<input type="checkbox"/>	Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/>	Alarm Response	
Description: System check.					

**FRANKLIN CLEANERS SITE, NYSDEC SITE NO. 1-30-050
SITE ACTIVITIES LOG**

PERSONNEL ON-SITE	DATE/TIME ON-SITE	TIME OFFSITE	REASON FOR SITE VISIT (CHECK BOX BELOW)	
KS	12/16/10 1030	1300	<input checked="" type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Maintenance
			<input checked="" type="checkbox"/> Sampling	Other (Provide Description)
			Alarm Response	
Description: WEEKLY site check, Bi-weekly system sampling.				
KS	12/22/10 1030	1300	<input checked="" type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Maintenance
			Sampling	Other (Provide Description)
			Alarm Response	
Description: WEEKLY site check - shut system down @ 1134 Totalizer 56817131 maintenance of Flow Sensor EW-2. Replaced restarted system @ 1204.				
GLW, RBA	12/27/10 0900	1130	SNOW REMOVAL	
ES	12-20-10 1015	1130 1315	<input checked="" type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Maintenance
			<input checked="" type="checkbox"/> Sampling	Other (Provide Description)
			Alarm Response	
Description: Conducted site check. Sampled EW-1, EW-2, & ES				

**FRANKLIN CLEANERS SITE, NYSDEC SITE NO. 1-30-050
SITE ACTIVITIES LOG**

PERSONNEL ON-SITE	DATE/TIME ON-SITE	TIME OFFSITE	REASON FOR SITE VISIT (CHECK BOX BELOW)	
RS	1-6-10 0900	1145	<input checked="" type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Maintenance
			<input type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	
Description: Weekly site check / monitor system Blower maintenance. CENTER Belt may need change soon.				
RMK PM	1/10/11 0900	1330	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Maintenance
			<input checked="" type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
GW			<input type="checkbox"/> Alarm Response	
Description: Sampling ASMW-7. Purgewater containerized and pumped through onsite system.				
RS	1/11/11 1045	1400	<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Maintenance
			<input checked="" type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	
Description: Weekly site check + system sampling. Flow sensor @ EW-2 not recording.				

**FRANKLIN CLEANERS SITE, NYSDEC SITE NO. 1-30-050
SITE ACTIVITIES LOG**

PERSONNEL ON-SITE	DATE/TIME ON-SITE	TIME OFFSITE	REASON FOR SITE VISIT (CHECK BOX BELOW)			
KMK. GW+PM	1/11/11 0900	1330	<input type="checkbox"/>	Monitoring	<input type="checkbox"/>	Maintenance
			<input checked="" type="checkbox"/>	Sampling	<input type="checkbox"/>	Other (Provide Description)
			<input type="checkbox"/>	Alarm Response		
Description: GWS ASMD's 6, 5, 4, 3, 2 + 1						
1/13/11 PM+RBA	1030	1330		SHOW REMOVAL		
1/19/11 BC	1300	1430	<input type="checkbox"/>	Monitoring	<input type="checkbox"/>	Maintenance
			<input type="checkbox"/>	Sampling	<input type="checkbox"/>	Other (Provide Description)
			<input checked="" type="checkbox"/>	Alarm Response		
Description: Restart & monitor system.						
1/20/11 KS	0915	1115	<input checked="" type="checkbox"/>	Monitoring	<input type="checkbox"/>	Maintenance
			<input type="checkbox"/>	Sampling	<input type="checkbox"/>	Other (Provide Description)
			<input type="checkbox"/>	Alarm Response		
Description: WEEKLY SYSTEM SITE CHECK & MONITORING.						

**FRANKLIN CLEANERS SITE, NYSDEC SITE NO. 1-30-050
SITE ACTIVITIES LOG**

PERSONNEL ON-SITE	DATE/TIME ON-SITE	TIME OFFSITE	REASON FOR SITE VISIT (CHECK BOX BELOW)		
EG	1/27/11 1045	1330	<input checked="" type="checkbox"/>	Monitoring	<input type="checkbox"/> Maintenance
RBA			<input checked="" type="checkbox"/>	Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/>	Alarm Response	
Description: Sys Site 1 + Sampling RBA + EW 1/28/11 0845 1030 SNOW REMOVAL.					
KS	1/31/11 @ 1000	1100	<input type="checkbox"/>	Monitoring	<input type="checkbox"/> Maintenance
			<input type="checkbox"/>	Sampling	<input type="checkbox"/> Other (Provide Description)
			<input checked="" type="checkbox"/>	Alarm Response	
Description: Respond to Alarms 3+5. RESET EW-1 VFD. RESTART SYSTEM MONITOR.					
			<input type="checkbox"/>	Monitoring	<input type="checkbox"/> Maintenance
			<input type="checkbox"/>	Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/>	Alarm Response	
Description:					

**FRANKLIN CLEANERS SITE, NYSDEC SITE NO. 1-30-050
SITE ACTIVITIES LOG**

PERSONNEL ON-SITE	DATE/TIME ON-SITE	TIME OFFSITE	REASON FOR SITE VISIT (CHECK BOX BELOW)			
Don Griffin	2/2/11 10:00	12:00	<input type="checkbox"/>	Monitoring	<input type="checkbox"/>	Maintenance
			<input type="checkbox"/>	Sampling	<input checked="" type="checkbox"/>	Other (Provide Description)
			<input type="checkbox"/>	Alarm Response		
Description: Snow Removal - plow snow from gate areas so gate can be opened/closed.						
KS, KAS	2/3/11 1000	12:15	<input checked="" type="checkbox"/>	Monitoring	<input type="checkbox"/>	Maintenance
			<input checked="" type="checkbox"/>	Sampling	<input type="checkbox"/>	Other (Provide Description)
			<input type="checkbox"/>	Alarm Response		
Description: WEEKLY SITE CHECK - CARBON SAMPLES.						
KS	2/10/11 0915	1230	<input checked="" type="checkbox"/>	Monitoring	<input type="checkbox"/>	Maintenance
			<input checked="" type="checkbox"/>	Sampling	<input type="checkbox"/>	Other (Provide Description)
			<input type="checkbox"/>	Alarm Response		
Description: WEEKLY site check, Bi WEEKLY system sampling.						

**FRANKLIN CLEANERS SITE, NYSDEC SITE NO. 1-30-050
SITE ACTIVITIES LOG**

PERSONNEL ON-SITE	DATE/TIME ON-SITE	TIME OFFSITE	REASON FOR SITE VISIT (CHECK BOX BELOW)	
ES	2-17-11 1030-11	1145	<input checked="" type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Maintenance
			<input type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	
Description: weekly sys v, ground blank				
ES	2-24-11 945	1230	<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Maintenance
			<input checked="" type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	
Description: sys v + sampling				
ES	3-3-11 1015	1200	<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Maintenance
			<input type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	
Description: sys v				

**FRANKLIN CLEANERS SITE, NYSDEC SITE No. 1-30-050
SYSTEM MONITORING LOG**

DATE	11/19/10 KS	11/24/10 KS	12/2/10 KS	12/9/10 KS	12/16/10 KS
TIME	0845	0900	0845	0930	1030
EW-1					
Flow Rate (gpm)	35.0	33.4	32.6	31.8	31.5
Total Flow (gal)	117777802 @ 0952	1200643 @ 0947	12371621 @ 0938	12692059 @ 0957	13014819 @ 1102
Influent pH (grab sample field reading)	5.97	6.37	7.22	5.81	5.77
VFD Operating Frequency (Hz)	80.0 Hz	80.0	80.0	80.0	80.0
Pump Runtime (hrs @ time)	5066130 @ 0945	5078124 @ 0945	5097292 @ 0936	5114086 @ 0955	5130997 @ 1100
Bicycle Pump Pressure Reading (psi)	—	—	—	—	—
Water Column Above Pump (ft H ₂ O)(psi x 2.31)	—	—	—	—	—
Routine Sampling Performed (YES/NO)	YES @ 1013	NO	YES @ 1056	NO	YES @ 1139
EW-2					
Flow Rate (gpm)	6.7	6.4	0 / 6.9	7.1	0
Total Flow (gal)	12651613 @ 0952	12699020 @ 0947	12754275 @ 0938 12784870 @ 1222	12924497 @ 0957	12943535 @ 1103
Influent pH (grab sample field reading)	5.45	5.44	7.01	5.43	5.26
VFD Operating Frequency (Hz)	60.0 Hz	60.0	60.0	60.0	60.0
Pump Runtime (hrs @ time)	3188531 @ 0945	3200524 @ 0945	3219693 @ 0936	3236489 @ 0955	3253397 @ 1100
Bicycle Pump Pressure Reading (psi)	—	—	—	—	—
Water Column Above Pump (ft H ₂ O)(psi x 2.31)	—	—	—	—	—
Routine Sampling Performed (YES/NO)	YES @ 1029	NO	YES @ 1105	NO	YES @ 1149
Air Stripper					
Sump Level (inches)	6"	6"	6"	6"	6"
Effluent pH (grab sample field reading)	6.74	6.88	9.25	7.04	6.99
Fresh Air Inlet Vacuum (in H ₂ O)	1.5	1.5	1	1.5	1.5
Blower Suction (in H ₂ O)	20	21	20.5	20.5	20.5
Blower Discharge (in H ₂ O)	25	25	24	24.5	24
Blower Runtime (hrs @ time)	3952829 @ 0945	3964822 @ 0945	3983991 @ 0936	4000787 @ 0955	4017694 @ 1100
Routine Sampling Performed (YES/NO)	YES @ 1042	NO	YES @ 1125	NO	YES @ 1205

**FRANKLIN CLEANERS SITE, NYSDEC SITE No. 1-30-050
SYSTEM MONITORING LOG**

DATE	11/19/10 KS	11/24/10 KS	12/2/10 KS	12/9/10 KS	12/16/10 KS
TIME	0845	0900	0845	0930	1030
Vapor Phase Carbon					
Lead/Lag Unit					
Lead pressure Inlet/Outlet (psi)	12/19	25/19	24/19	24.5/19	24/19
Lead Total VOC Conc. Inlet/Outlet (ppm)	1.3/1.2	1.5/1.5	2.2/2.7	1.6/2.0	1.6/1.6
Lag pressure Inlet/Outlet (psi)	9/6.5	9/6.5	9/6	9/6.5	9/6
Lag Total VOC Conc. Inlet/Outlet (ppm)	1.3/1.1	1.5/1.6	3.3/3.5	3.2/5.1	1.6/1.6
Exhaust Flow Rate (scfm)	610	620	615	630	630
Exhaust Temperature (°F)	81°	81°	80°	79°	78°
Wet Well					
Pump No. 1 Runtime (hrs)	184299 @ 0950	184898 @ 0946	185958 @ 0937	186713 @ 0956	187579 @ 1101
Pump No. 2 Runtime (hrs)	172190 @ 0950	172676 @ 0946	173456 @ 0937	174131 @ 0956	174809 @ 1101
Wet Well pH (grab sample field reading)	6.90	7.31	8.97	7.24	7.10
Valve Vault					
Pump No. 1 Operating Pressure (psi)	9.2	10	9	9	9
Pump No. 1 Flow Rate (gpm)	60	64	64	64	63
Pump No. 2 Operating Pressure (psi)	9.8	10.1	10	10	10
Pump No. 2 Flow Rate (gpm)	63	64	65	64	61
Flow Meter Vault					
Total Flow (gallons @ time)	54648914 @ 1004	54467938 @ 1016	55135670 @ 0943	55722850 @ 1004	56313184 @ 1116
Jet Pump					
Line Pressure (psi)	0	0	0	0	0

COMMENTS

11/19/10 System operating normal on Arrival + Departure.

12/2/10 System running upon Arrival - Flow Sensor EW2 not recording System shutdown @ 1150 to maintain flow sensor. 55143396 Totalizer. System ON @ 1212 - monitor system for 20 min record EW-2 readings after cleaning sensor. Turned Heater on "50"
Turned outside lighting on "Auto"

12/16/10 Flow sensor @ EW-2 NOT WORKING.

**FRANKLIN CLEANERS SITE, NYSDEC SITE No. 1-30-050
SYSTEM MONITORING LOG**

DATE	12/22/10 KS	12-30-10 ES	1/6/11 KS	1/11/11 KS	1/18/11 BC
TIME	1030	1015	0900	1045	1330
EW-1					
Flow Rate (gpm)	28.6	33.4	30.1	29.0	
Total Flow (gal)	13288862 @ 1107	13651805 @ 1109	13967615 @ 0912	14196556 @ 1057	
Influent pH (grab sample field reading)	5.76	5.81	5.56	5.82	
VFD Operating Frequency (Hz)	800	80.0	80.0	80.0	
Pump Runtime (hrs @ time)	5145405 @ 1105	516449.15 @ 1025	5181165 @ 0910	5193268 @ 1055	
Bicycle Pump Pressure Reading (psi)	/	/	/	/	
Water Column Above Pump (ft H ₂ O)(psi x 2.31)	/	/	/	/	
Routine Sampling Performed (YES/NO)	NO	Yes	NO	Yes @ 1118	
EW-2					
Flow Rate (gpm)	0	6.7 @ 1029	7.4	0	
Total Flow (gal)	12843535 @ 1108	12923962 @ 1029	12994170 @ 0912	13035527 @ 1057	
Influent pH (grab sample field reading)	5.33	5.49	5.15	5.42	
VFD Operating Frequency (Hz)	60.0	60.0	60.0	60.0	
Pump Runtime (hrs @ time)	3267806 @ 1105	328689.25 @ 1025	3303565 @ 0910	3315668 @ 1055	
Bicycle Pump Pressure Reading (psi)	/	/	/	/	
Water Column Above Pump (ft H ₂ O)(psi x 2.31)	/	/	/	/	
Routine Sampling Performed (YES/NO)	NO	Yes	NO	Yes @ 1125	
Air Stripper					
Sump Level (inches)	6"	6.0	6"	6"	
Effluent pH (grab sample field reading)	6.00	7.77	6.32	6.81	
Fresh Air Inlet Vacuum (in H ₂ O)	1.5	2.0	2	1.5	
Blower Suction (in H ₂ O)	20	21.0	21	20.5	
Blower Discharge (in H ₂ O)	24	24.0	25	25	
Blower Runtime (hrs @ time)	4032103 @ 1105	405119.0 @ 1025	4067862 @ 0910	4079965 @ 1055	
Routine Sampling Performed (YES/NO)	NO	Yes	NO	Yes @ 1131	

**FRANKLIN CLEANERS SITE, NYSDEC SITE No. 1-30-050
SYSTEM MONITORING LOG**

DATE	12/22/10 KS	12-20-10 ES	1/6/11 KS	1/11/11 KS	1/18/11 BC AB7
TIME	1030	1015	0900	1045	1330
Vapor Phase Carbon					
Lead/Lag Unit					
Lead pressure Inlet/Outlet (psi)	24 / 19	24 / 19	25 / 19	25 / 19	25 / 19
Lead Total VOC Conc. Inlet/Outlet (ppm)	17.0 / 10.0	4.5 / 3.7	0.3 / 1.2	2.6 / 2.4	
Lag pressure Inlet/Outlet (psi)	9 / 7	9.25 / 6.0	9 / 6	9 / 6.5	9 / 6.5
Lag Total VOC Conc. Inlet/Outlet (ppm)	9.4 / 7.9	4.2 / 4.6	1.6 / 1.7	2.2 / 3.5	
Exhaust Flow Rate (scfm)	620	630	620	630	620
Exhaust Temperature (°F)	77°	77°	79°	79°	69°
Wet Well					
Pump No. 1 Runtime (hrs)	188318 @ 1106	18929.7 @ 1026	190153 @ 0911	190780 @ 1056	191661 @ 1414
Pump No. 2 Runtime (hrs)	175384 @ 1106	17614.7 @ 1026	176814 @ 0911	177296 @ 1056	17794 @ 1414
Wet Well pH (grab sample field reading)	7.11	7.11	6.59	7.11	
Valve Vault					
Pump No. 1 Operating Pressure (psi)	9	10.0	9.5	10	
Pump No. 1 Flow Rate (gpm)	63	63.0 @ 129	60	62	
Pump No. 2 Operating Pressure (psi)	10	10.0	10	10.1	
Pump No. 2 Flow Rate (gpm)	66	65.0	61	64	
Flow Meter Vault					
Total Flow (gallons @ time)	56816026 @ 1115	57479890 @ 1045	58659296 @ 0924	58481618 @ 1105	59062781 @ 1430
Jet Pump					
Line Pressure (psi)	0	0	0	0	0

COMMENTS

12/22/10 Flow Sensor @ EW-2 not working - Shut system down @ 1134 Totalizer S6817131. Cleaned IRON FROM paddle wheel - replaced & restarted system @ 1204. monitor system for 1/2 hr for normal operation - Flow Rate @ EW2 7.6 gpm.

1-6-11 Blower Maintenance.

1/11/11 Flow sensor @ ew-2 stopped recording after last visit. will not be replaced @ this time (scraped system)

**FRANKLIN CLEANERS SITE, NYSDEC SITE No. 1-30-050
SYSTEM MONITORING LOG**

DATE	1/20/11 KS	1-19-11 /ES	2/3/11 KS	2/10/11 KS	2-17-11 ES
TIME	0915	1045	1000	0915	1030
EW-1					
Flow Rate (gpm)	32.6	32.0	30.9	30.9	31.3
Total Flow (gal)	14593704 @ 1622	14457810 @ 1110	18223391 @ 1036	15540035	15858840
Influent pH (grab sample field reading)	5.58	5.67	4.89	7.03	No YSI avail
VFD Operating Frequency (Hz)	80.0	80.0	80.0	80.0	80
Pump Runtime (hrs @ time)	52142.75 @ 1020	52355.5 @ 1109	52475.93 @ 1024	5264346 @ 1006	528119.6 @ 1037
Bicycle Pump Pressure Reading (psi)	---	-	---	---	-
Water Column Above Pump (ft H ₂ O)(psi x 2.31)	---	-	---	---	-
Routine Sampling Performed (YES/NO)	NO	YES	NO	YES	NO
EW-2					
Flow Rate (gpm)	Not recording	Not recording	---	---	---
Total Flow (gal)	13035528	13055780	---	---	---
Influent pH (grab sample field reading)	5.40	5.51	4.67	6.70	No YSI avail
VFD Operating Frequency (Hz)	60.0	60.0	60.0	60.0	60.0
Pump Runtime (hrs @ time)	33366.76 @ 1020	33595.5 @ 1109	33699.4 @ 1034	33867.4 @ 1006	340359.7 @ 1037
Bicycle Pump Pressure Reading (psi)	---	-	---	---	---
Water Column Above Pump (ft H ₂ O)(psi x 2.31)	---	-	---	---	---
Routine Sampling Performed (YES/NO)	NO	YES	NO	YES	NO
Air Stripper					
Sump Level (inches)	6"	1"	6"	6"	6"
Effluent pH (grab sample field reading)	6.35	6.31	5.86	7.31	No YSI
Fresh Air Inlet Vacuum (in H ₂ O)	1.5	2.0	1.5	1.5	3.0
Blower Suction (in H ₂ O)	20.5	22.0	20.5	20.5	20.5
Blower Discharge (in H ₂ O)	25	18.0	26	25	19.0
Blower Runtime (hrs @ time)	4101007 @ 1021	41028.7 @ 1109	4134333 @ 1034	4151085 @ 1006	4167935 @ 1037
Routine Sampling Performed (YES/NO)	NO	YES	NO	YES	NO

**FRANKLIN CLEANERS SITE, NYSDEC SITE No. 1-30-050
SYSTEM MONITORING LOG**

DATE	1/26/11 KS	1-28-11 ES	2/3/11 KS	2/10/11 KS	2-17-11 ES
TIME	0915	1045	1000	0915	1030
Vapor Phase Carbon					
Lead/Lag Unit					
Lead pressure Inlet/Outlet (psi)	25/19	18/23	26/19	25/19	19/24
Lead Total VOC Conc. Inlet/Outlet (ppm)	—	14/24	22/38.2	0.0/0.0	2.5/2.6
Lag pressure Inlet/Outlet (psi)	9/6	6.0/8.0	9/7	9/6	6.25/9.5
Lag Total VOC Conc. Inlet/Outlet (ppm)	—	2.5/2.6	10.7/25	0.0/0.0	2.4/2.7
Exhaust Flow Rate (scfm)	630	620	630	630	630
Exhaust Temperature (°F)	79°	76°F	79°	79°	78°F
Wet Well					
Pump No. 1 Runtime (hrs)	191897 @ 1021	152924 @ 1110	193673 @ 1034	194574 @ 1006	19548.45 @ 1055
Pump No. 2 Runtime (hrs)	178116 @ 1022	178818 @ 1110	179415 @ 1034	180062 @ 1007	18071.3 @ 1057
Wet Well pH (grab sample field reading)	6.87	6.48	4.87	7.38	no test avail
Valve Vault					
Pump No. 1 Operating Pressure (psi)	9	9.8	9.5	9.9	10.0
Pump No. 1 Flow Rate (gpm)	62	~62	63	62	60-64
Pump No. 2 Operating Pressure (psi)	10	10.1	10	10.5	10.2
Pump No. 2 Flow Rate (gpm)	62	~62	65	63	60-65
Flow Meter Vault					
Total Flow (gallons @ time)	59217564 @ 1034	59993110 @ 1115	60326069 @ 1059	60976713 @ 1024	61569387 @ 1058
Jet Pump					
Line Pressure (psi)	-0-	-0-	0	0	0

COMMENTS

1/26/11 PID-12 Lamp Bad - could not monitor ppm's @ CARBON VESSELS.

1/28/11 FLOW Air still not working - XI @ 104 ph Cal. prior to use. PID 16 Cal prior to use.

2/3/11 carbon Air Samples Collected - LEAD Inlet, LEAD outlet, & LAG outlet.

**FRANKLIN CLEANERS SITE, NYSDEC SITE No. 1-30-050
SYSTEM MONITORING LOG**

DATE	2-24-11	3-3-11	3-11-11		
TIME	0945	1015	1045		
EW-1					
Flow Rate (gpm)	32.6	32.7	32.7		
Total Flow (gal)	16175926 @ 952	16496336 @ 1028	16862323 @ 1051		
Influent pH (grab sample field reading)	6.08	5.97	5.93		
VFD Operating Frequency (Hz)	80 Hz	80	80		
Pump Runtime (hrs @ time)	529791.9 @ 950	531478.1 @ 1027	533401.0 @ 1050		
Bicycle Pump Pressure Reading (psi)	-	-	-		
Water Column Above Pump (ft H ₂ O)(psi x 2.31)	-	-	-		
Routine Sampling Performed (YES/NO)	Y	N	Yes		
EW-2					
Flow Rate (gpm)	0.0 (Not operating properly)	0.0 (Not working)	0.0 (Not Oper. Properly)		
Total Flow (gal)	13035528 @ 952	13035528 @ 1028	13035528 @ 1050		
Influent pH (grab sample field reading)	5.56	5.02	5.49		
VFD Operating Frequency (Hz)	60 Hz	60 Hz	60 Hz		
Pump Runtime (hrs @ time)	342032.1 @ 950	343718.1 @ 1028	345641.9 @ 1050		
Bicycle Pump Pressure Reading (psi)	-	-	-		
Water Column Above Pump (ft H ₂ O)(psi x 2.31)	-	-	-		
Routine Sampling Performed (YES/NO)	Yes	NO	Yes		
Air Stripper					
Sump Level (inches)	6.0"	6.0	6.0		
Effluent pH (grab sample field reading)	6.86	6.86	6.90		
Fresh Air Inlet Vacuum (in H ₂ O)	1.75	1.75	1.75		
Blower Suction (in H ₂ O)	21.0 "H ₂ O	21.0	21.0		
Blower Discharge (in H ₂ O)	24.0	24.5	23.5		
Blower Runtime (hrs @ time)	418465.9 @ 950	420152.0 @ 1028	422075.8 @ 1050		
Routine Sampling Performed (YES/NO)	Y	NO	Yes		

**FRANKLIN CLEANERS SITE, NYSDEC SITE No. 1-30-050
SYSTEM MONITORING LOG**

DATE	2-24-11	3-3-11	3-11-11		
TIME	945	1015	1045		
Vapor Phase Carbon					
Lead/Lag Unit					
Lead pressure Inlet/Outlet (psi)	24.0/19.0	24.5/19.0	23.5/19.0		
Lead Total VOC Conc. Inlet/Outlet (ppm)	1.2/1.3	0.3/0.3	0.7/0.7		
Lag pressure Inlet/Outlet (psi)	9.5/6.0	9.5/6.0	9.0/6.0		
Lag Total VOC Conc. Inlet/Outlet (ppm)	1.2/1.4	0.7/1.3	0.9/1.0		
Exhaust Flow Rate (scfm)	630	640	620		
Exhaust Temperature (°F)	79°F	79°F	80°F		
Wet Well					
Pump No. 1 Runtime (hrs)	19639.5 @ 951	19732.1 @ 1027	19839.5 @ 1050		
Pump No. 2 Runtime (hrs)	1835.5 @ 951	18199.9 @ 1027	18272.0 @ 1050		
Wet Well pH (grab sample field reading)	7.08	7.11	7.07		
Valve Vault					
Pump No. 1 Operating Pressure (psi)	9.8	10.0	9.7		
Pump No. 1 Flow Rate (gpm)	62.0 gpm @ 1030	66.0 @ 1034	61.0 @ 1055		
Pump No. 2 Operating Pressure (psi)	9.9	10.2	9.9		
Pump No. 2 Flow Rate (gpm)	63.0 gpm @ 959	63.0 @ 1057	63.0 @ 1114		
Flow Meter Vault					
Total Flow (gallons @ time)	62159190 @ 959	62755324 @ 1033	63435760 @ 1055		
Jet Pump					
Line Pressure (psi)	/	/	/		

COMMENTS

· PID 12 Cal. prior to use. YSI 108 checked against pH Solution for weekly accuracy. (2-24-11)

· PID 11 ' ' ' YSI 107 ' ' ' ' ' (3-3-11)

· PID 12 Cal. prior to use. YSI 109 pH checked against Confidence Solution prior to use. (3-8-11)

FRANKLIN CLEANERS SITE, NYSDEC SITE NO. 1-30-050
 SYSTEM OPERATIONS AND DOWNTIME SHEET

SHUT-OFF DATE/TIME	RESTART DATE/TIME	CAUSE	ACTIONS TAKEN	TOTALIZER READING
7/19/10 1030	7/19/10	High level in well	Pump down / Restarted	45934965 @ 12 33
7/21/10 1022		Request @ PM	EW-2 Shutdown	11941158
7/23/10 1323				07507601
	7/26/10 1315		Restart system	07507612 EW-1
	7/27/10 1410		Restart EW-2	11941158 EW-2
7/30/10 0955	7/30/10 1045	Maintenance		46564937
8/26/10 1035	8/26/10 1110	MAINTENANCE	Flow sensor 2 - cleaning AIR INLET - CLEAN check valve @ EW-2 INLET for Airge ^{water}	48837586
8/30/10 1915	8/31/10	Alarm -3	Pump Down WW / Restart Failure	49,202,338 system off
	9/22/10 1030	Replaced part.	RE-start after replacement part	49,202,338 ON
11/12/10 1028	11/12/10 1036	Personnel Shot down	Fresh air inlet screen to - be cleaned.	53466842
11/29/10 1322	11/29/10 1330	Flow sensor EW-2 not working	Cleaned flow sensor paddle wheels	54897868
12/2/10 1150	12/2/10 1212	FLOW SENSOR EW-2 not working	Cleaned paddle wheel of plus IRON & placed back in position	55148396
12/22/10 1134	12/22/10 1204	Flow sensor not working @ EW-2	Cleaned IRON FROM paddle wheel. Replaced. monitored.	56817131
1/6/11 1010	1/6/11 1100	Blow @ MAINTENANCE	GREASE, IN SIGHT @ 1/5.	58062265

ATTACHMENT E

ROUTINE MAINTENANCE SCHEDULE

FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004446 / SITE No. 1-30-050
SUMMARY OF MAINTENANCE ACTIVITIES

Activity	Dec-2010	Jan-2011	Feb-2011	Mar-2011	Apr-2011	May-2011
	26th Qtr	26th Qtr	26th Qtr	27th Qtr	27th Qtr	27th Qtr
Blower Maintenance		01/06/11	02/17/11			
Air Stripper Maintenance						
GAC Removal and Replacement						
Wet Well Pumps Maintenance						

###/###/##	Activity Completed
	Activity to Complete

ATTACHMENT F

ANALYTICAL RESULTS

FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004446 / SITE No. 1-30-050
RESULTS OF ANALYSIS OF EW-1 INFLUENT

SAMPLE ID	SYSTEM INFLUENT (EW-1)	SYSTEM INFLUENT (EW-1)	SYSTEM INFLUENT (EW-1)	SYSTEM INFLUENT (EW-1)	SYSTEM INFLUENT (EW-1)	SYSTEM INFLUENT (EW-1)	SYSTEM INFLUENT (EW-1)	NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
DATE OF COLLECTION	12/2/2010	12/16/2010	12/30/2010	1/11/2011	1/28/2011	2/10/2011	2/24/2011	
COLLECTED BY	EAR	EAR	EAR	EAR	EAR	EAR	EAR	
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOCs								
Dichlorodifluoromethane	U	U	U	U	U	U	U	5 ST
Chloromethane	0.82 J	0.34 J	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
Methylene chloride	U	U	U	U	U	U	U	5 ST
trans 1,2-Dichloroethene	U	U	U	U	U	U	U	5 ST
1,1-Dichloroethane	U	U	U	U	U	U	U	5 ST
Chloroform	0.14 J	0.13 J	0.12 J	0.14 J	0.11 J	U	U	7 ST
1,1,1-Trichloroethane	U	U	U	U	U	U	U	5 ST
Carbon tetrachloride	U	U	U	U	U	U	U	5 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	0.6 ST
Trichloroethene	U	U	U	U	U	U	U	5 ST
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
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	17	16	18	18	16	16	19	5 ST
Dibromochloromethane	U	U	U	U	U	U	U	50 GV
Chlorobenzene	U	U	U	U	U	U	U	5 ST
Bromoform	U	U	U	U	U	U	U	50 GV
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
2-Chloroethyl vinyl ether	U	U	U	U	U	U	U	5 ST

NOTES:

Concentration exceeds NYSDEC Class GA

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. D004446 / 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)	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	WATER	WATER	WATER	
DATE OF COLLECTION	12/2/2010	12/16/2010	12/30/2010	1/11/2011	1/28/2011	2/10/2011	2/24/2011	
COLLECTED BY	EAR	EAR	EAR	EAR	EAR	EAR	EAR	
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOCs								
Dichlorodifluoromethane	U	U	U	U	U	U	U	5 ST
Chloromethane	U	0.53 J	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	1.90 J	U	U	5 ST
Trichlorofluoromethane	U	U	U	U	U	U	U	5 ST
1,1-Dichloroethene	0.20 J	0.24 J	0.24 J	0.21 J	U	0.30 J	0.19 J	5 ST
Methylene chloride	U	U	U	U	U	U	U	5 ST
trans 1,2-Dichloroethene	U	U	U	U	U	U	U	5 ST
1,1-Dichloroethane	U	U	U	0.11 J	U	0.12 J	U	5 ST
Chloroform	0.16 J	0.16 U	0.16 U	U	U	0.15 J	U	7 ST
1,1,1-Trichloroethane	U	U	U	0.20 J	0.18 J	U	U	5 ST
Carbon tetrachloride	U	U	U	U	U	U	U	5 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	0.6 ST
Trichloroethene	U	U	U	U	U	U	U	5 ST
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
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	55	56	57	58	52	51	60	5 ST
Dibromochloromethane	U	U	U	U	U	U	U	50 GV
Chlorobenzene	U	U	U	U	U	U	U	5 ST
Bromoform	U	U	U	U	U	U	U	50 GV
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
2-Chloroethyl vinyl ether	U	U	U	U	U	U	U	5 ST

NOTES:

ABBREVIATIONS:

QUALIFIERS:

Concentration exceeds NYSDEC Class GA Groundwater Standards or Guidance Values
 ug/L = Micrograms per liter
 ST: Standard Value
 U: Compound analyzed for but not detected
 GV: Guidance Value
 J: Compound found at a concentration below CRDL, value estimated
 --: Not established

FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004446 / 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)	SYSTEM EFFLUENT (AS-1)	SYSTEM EFFLUENT (AS-1)	SYSTEM INFLUENT (AS-1)	EFFLUENT LIMITATIONS	NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
DATE OF COLLECTION	12/2/2010	12/16/2010	12/30/2010	1/1/2011	1/28/2011	2/10/2011	2/24/2011		
COLLECTED BY	EAR	EAR	EAR	EAR	EAR	EAR	EAR		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
VOCs									
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	0.56 J	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
Methylene chloride	U	U	U	U	U	U	U	--	5 ST
trans 1,2-Dichloroethene	U	U	U	U	U	U	U	--	5 ST
1,1-Dichloroethane	U	U	U	U	U	U	U	10	5 ST
Chloroform	U	U	U	U	U	U	U	--	7 ST
1,1,1-Trichloroethane	U	U	U	U	U	U	U	10	5 ST
Carbon tetrachloride	U	U	U	U	U	U	U	--	5 ST
1,2-Dichloroethane	U	U	U	U	U	U	U	--	0.6 ST
Trichloroethene	U	U	U	U	U	U	U	10	5 ST
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
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	0.18 J	0.24 J	U	0.13 J	U	0.19 J	U	5	5 ST
Dibromochloromethane	U	U	U	U	U	U	U	--	50 GV
Chlorobenzene	U	U	U	U	U	U	U	--	5 ST
Bromoform	U	U	U	U	U	U	U	--	50 GV
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
2-Chloroethyl vinyl ether	U	U	U	U	U	U	U	--	5 ST

NOTES:

Concentration exceeds Site Specific Effluent Limitation

ABBREVIATIONS

ug/L = Micrograms p ST: Standard \ U: Compound analyzed for but not detected
 --: Not established GV: Guidance J: Compound found at a concentration below

QUALIFIERS:

FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004446 / 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)	SYSTEM EFFLUENT (AS-1)	SYSTEM EFFLUENT (AS-1)	SYSTEM EFFLUENT (AS-1)	EFFLUENT LIMITATIONS
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
DATE OF COLLECTION	12/2/2010	12/16/2010	12/30/2010	1/11/2011	1/28/2011	2/10/2011	2/24/2011	
COLLECTED BY	EAR	EAR	EAR	EAR	EAR	EAR	EAR	
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
<i>METALS</i>								
Iron	52.7 J	132 J	144 J	390	U	154 J	U	1000
Manganese	19.9	29.9	53.2	67.2	18.9	35.8	18.8	1000
pH (S.U.)	7.19	7.30	7.11	7.02	7.12	7.13	7.05	6.5 to 8.5

ABBREVIATIONS:

ug/L: Micrograms per liter

QUALIFIERS:

U: Compound analyzed for but not detected

J: Compound found at a concentration below Contract Required Detection Limit, value estimated

FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004446 / 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	EAR	EAR	EAR	EAR
UNITS	(ppm)	(ppm)	(ppm)	(ppm)
DATE OF COLLECTION	PID Reading	PID Reading	PID Reading	PID Reading
12/2/2010	2.2	2.9	3.3	3.5
12/9/2010	1.6	2.0	3.2	5.1
12/16/2010	1.6	1.6	1.6	1.6
12/22/2010	17.0	10.0	9.4	7.9
12/30/2010	4.5	3.7	4.2	4.6
1/6/2011	0.3	1.2	1.6	1.7
1/11/2011	2.6	2.4	2.2	3.5
1/28/2011	2.4	2.4	2.5	2.6
2/3/2011	22.0	38.2	10.7	25.0
2/10/2011	0.0	0.0	0.0	0.0
2/17/2011	2.5	2.6	2.4	2.7
2/24/2011	1.2	1.3	1.2	1.4

NOTES:

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

Exceeds site-specific effluent limit of 1.0 ppm total VOCs.

FRANKLIN CLEANERS SITE
NYSDEC SITE No. 1-52-125
RESULTS OF ANALYSIS OF VAPOR PHASE CARBON VESSELS
- VOLATILE ORGANIC COMPOUNDS (VOCs)

SAMPLE ID	LEAD-INFLUENT		LEAD-EFFLUENT		LAG-EFFLUENT	
SAMPLE TYPE	AIR		AIR		AIR	
DATE OF COLLECTION	2/3/2011		2/3/2011		2/3/2011	
BLOWER FLOW RATE (FT ³ /MIN)	620		620		620	
	Concentration	Loading Rate	Concentration	Loading Rate	Concentration	Emission Rate
UNITS	(ug/m ³)	(lb/hr)	(ug/m ³)	(lb/hr)	(ug/m ³)	(lb/hr)
VOCs						
t 1,3 Dichloropropene	U		U		U	
Freon 114	U		U		U	
Acetone	U		U		U	
Ethanol	U		U		U	
Ethyl Acetate	U		U		U	
Ethylbenzene	U		U		U	
Trichlorofluoromethane	1.2	2.8E-06	U		U	
Heptane	U		U		U	
Hexachloro-,1,3-Butadiene	U		U		U	
Hexane	U		U		U	
2-Hexanone	U		U		U	
Isopropyl Alcohol	U		U		U	
Methylene Chloride	U		U		U	
Benzene	14	3.3E-05	U		0.82	1.9E-06
Benzyl Chloride	U		U		U	
Styrene	U		U		U	
1,1,2,2 Tetrachloroethane	U		U		U	
Tetrachloroethene	210	4.9E-04	130	3.0E-04	180	4.2E-04
Tetrahydrofuran	U		U		U	
Toluene	1.1	2.6E-06	U		U	
1,2,4 Trichlorobenzene	U		U		U	
1,1,1 Trichloroethane	U		U		U	
1,1,2 Trichloroethane	U		U		U	
Trichloroethylene	0.62	1.4E-06	0.63	1.5E-06	0.6	1.4E-06
1,2,4 Trimethylbenzene	U		U		U	
1,3,5 Trimethylbenzene	U		U		U	
Vinyl Acetate	U		U		U	
Vinyl Chloride	U		U		U	
o-Xylene	U		U		U	
Methyl tert-butyl ether	1.6	3.7E-06	U		U	
1,2,2 Trifluoro-1,1,2 Trichloroethane	U		U		U	
m + p Xylene	U		U		U	
Bromodichloromethane	U		U		U	
1,2 Dibromoethane	U		U		U	
Methyl Ethyl Ketone	U		U		U	
4-Methyl-2-Pentanone	U		U		U	
Bromoform	U		U		U	
Bromomethane	U		U		U	
1,3 Butadiene	U		U		U	
4-Ethyltoluene	U		U		U	
Carbon Disulfide	U		U		U	
Carbon Tetrachloride	U		U		U	
Chlorobenzene	U		U		U	
Dibromochloromethane	U		U		U	
Chloroethane	U		U		U	
Chloroform	1.1	2.6E-06	U		U	
Chloromethane	1.2	2.8E-06	1.3	3.0E-06	1.6	3.7E-06
Propene	2.4	5.6E-06	1.1 J	2.6E-06	1.1 J	2.6E-06
Cyclohexane	U		U		U	
1,2 Dichlorobenzene	U		U		U	
1,3 Dichlorobenzene	U		U		U	
1,4 Dichlorobenzene	U		U		U	
Dichlorodifluoromethane	2.7	6.3E-06	2.7	6.3E-06	2.6	6.0E-06
1,1 Dichloroethane	U		U		U	
1,2 Dichloroethane	U		U		U	
1,1 Dichloroethene	U		U		U	
cis-1,2-Dichloroethene	U		U		U	
trans-1,2-Dichloroethene	U		U		U	
1,2-Dichloroethene (total)	U		U		U	
1,2 Dichloropropane	U		U		U	
c 1,3 Dichloropropene	U		U		U	
Total BTEX	U		U		U	
Total VOCs	236	5.5E-04	136	3.2E-04	187	4.3E-04

ABBREVIATIONS:

ug/m³ - Micrograms per cubic meter

QUALIFIERS:

U: Compound analyzed for but not detected.

J: Analyte detected at or below quantitation limits

D: Result taken from reanalysis at a secondary dilution

ATTACHMENT G

PERFORMANCE SUMMARY

FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004446 / SITE No. 1-30-050
EXTRACTION AND TREATMENT SYSTEM PERFORMANCE RESULTS

DATE OF SAMPLE COLLECTION	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 ⁽³⁾ (lb/hr)	ESTIMATED SYSTEM RUNTIME (hr)	ESTIMATED CUMULATIVE PCE REMOVAL (lbs)
3/11/2009	40.1	18	5.7	92	< 0.5	99.54	6.24E-04	253	36.13
3/25/2009	39.0	16	5.3	74	< 0.5	99.48	5.09E-04	335	36.30
4/8/2009	39.2	16	5.3	61	< 0.5	99.44	4.76E-04	334	36.46
4/24/2009	40.4	13	5.2	61	< 0.5	99.38	4.22E-04	277	36.58
5/5/2009	39.5	16	5.2	63	< 0.5	99.46	4.81E-04	186	36.67
5/18/2009	40.5	13	5.5	53	< 0.5	99.33	4.10E-04	554	36.89 ⁽¹⁾
6/3/2009	39.5	15	5.3	56	< 0.5	99.40	4.45E-04	65	36.92
6/18/2009	39.1	13	5.2	55	< 0.5	99.35	3.98E-04	326	37.05
7/1/2009	40.3	8	5.5	48	< 0.5	99.09	3.02E-04	308	37.14
7/15/2009	40.3	11	5.3	47	< 0.5	99.23	3.47E-04	144	37.19
7/28/2009	40.6	13	5.4	61	< 0.5	99.37	4.29E-04	458	37.39
8/13/2009	40.4	13	5.3	51	< 0.5	99.33	3.98E-04	382	37.54
8/24/2009	40.2	11	5.3	50	< 0.5	99.25	3.54E-04	449	37.70 ⁽¹⁾
9/8/2009	39.9	13	5.8	53	< 0.5	99.30	4.14E-04	141	37.76
9/25/2009	39.8	12	5.8	57	< 0.5	99.28	4.05E-04	412	37.93
10/5/2009	39.0	10	5.8	54	< 0.5	99.17	3.50E-04	241	38.01
10/26/2009	39.5	12	5.7	56	< 0.5	99.28	3.97E-04	495	38.21
11/9/2009	36.0	8	5.4	48	< 0.5	99.03	2.79E-04	324	38.30
11/24/2009	37.5	11	5.5	51	< 0.5	99.21	3.47E-04	502	38.47 ⁽¹⁾
12/8/2009	36.2	12	5.4	50	< 0.5	99.23	3.53E-04	172	38.53
12/26/2009	36.3	13	5.2	55	< 0.5	99.31	3.80E-04	307	38.65
1/4/2010	36.8	13	5.1	54	< 0.5	99.32	3.77E-04	256	38.75
1/21/2010	37.5	14	5.3	62	< 0.5	99.38	4.27E-04	408	38.92
2/5/2010	32.9	12	5.3	47	< 0.5	99.18	3.22E-04	343	39.03
2/19/2010	31.4	15	6.3	55	0.82	98.74	4.09E-04	564	39.26 ⁽¹⁾
3/4/2010	34.4	16	5.8	60	< 0.5	99.35	4.50E-04	251	39.38
3/18/2010	33.1	14	6.2	48	< 0.5	99.19	3.81E-04	104	39.42
4/1/2010	33.8	11	5.7	47	< 0.5	99.11	3.20E-04	328	39.52
4/15/2010	34.0	14	6.3	58	< 0.5	99.25	4.21E-04	336	39.66
4/30/2010	33.6	15	6.3	59	< 0.5	99.28	4.39E-04	342	39.81
5/13/2010	32.2	16	6.4	68	0.52	99.30	4.76E-04	299	39.95
5/28/2010	33.3	14	5.7	76	0.97	98.77	4.50E-04	440	40.15 ⁽¹⁾
6/10/2010	33.2	16	6.6	65	0.51	99.30	4.81E-04	226	40.26
6/25/2010	33.0	17	6.3	61	< 0.5	99.33	4.73E-04	322	40.41
7/7/2010	32.8	16	4.8	57	< 0.5	99.40	4.00E-04	148	40.47
7/21/2010	32.0	14	5.3	53	< 0.5	99.27	3.65E-04	330	40.59
8/5/2010	31.5	15	4.7	52	0.5	99.34	3.59E-04	289	40.70
8/19/2010	33.7	16	5.0	62	0.5	99.41	4.25E-04	607	40.95 ⁽¹⁾
9/23/2010	32.4	25	6.3	58	< 0.12	99.87	5.89E-04	24	40.97
10/7/2010	31.0	19	7.0	63	0.35	99.52	5.16E-04	336	41.14
10/21/2010	31.9	14	7.0	51	0.19	99.67	4.02E-04	336	41.28
11/4/2010	31.2	17	6.3	60	0.20	99.72	4.55E-04	336	41.43
11/19/2010	35.0	16	6.7	56	0.18	99.74	4.68E-04	639	41.73 ⁽¹⁾
12/2/2010	32.6	17	6.9	55	0.18	99.73	4.68E-04	34	41.74
12/16/2010	31.5	16	7.1	56	0.24	99.62	4.51E-04	337	41.90
12/30/2010	33.4	18	6.7	57	< 0.12	99.84	4.92E-04	335	42.06
1/11/2011	29.0	18	7.0 ⁽⁴⁾	58	0.13	99.80	4.66E-04	288	42.20
1/28/2011	32.0	16	7.0 ⁽⁴⁾	52	< 0.12	99.81	4.39E-04	403	42.37
2/10/2011	30.9	16	7.0 ⁽⁴⁾	51	0.19	99.69	4.27E-04	308	42.50
2/24/2011	32.6	18	7.0 ⁽⁴⁾	60	< 0.12	99.83	5.05E-04	446	42.73 ⁽¹⁾

NOTES:

1. Estimated through the end of the reporting period.
2. Performance results for the reporting period are shaded.
3. Mass removal rate(lb/hr) = flow(gpm)*concentration(ug/l)*3.79(liters/gallon)*1E-6(g/ug)*2.2E-3(lb/g)*60(min/hr)
4. Extraction well EW-2 flow meter malfunctioning and not recording flow rate. Value based on average flow rate for the reporting period.

ABBREVIATIONS:

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

QUALIFIERS:

J: Compound found at a concentration below CRDL, value estimated
 B: Compound detected in method blank as well as the sample, value estimated

ATTACHMENT H

DATA VALIDATION CHECKLISTS

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners aka Hempstead		
Project Number:	2531-08		
Sample Date(s):	December 2,2010		
Matrix/Number of Samples:	Water/ 3 (EW-1, EW-2 and AS) Trip Blank/0		
Analyzing Laboratory:	TestAmerica Laboratories, Shelton, CT		
Analyses:	Volatile Organic Compounds (VOCs): 40 CFR Part 136 method 624 Metals: Iron and manganese by USEPA SW846 Method 6010B		
Laboratory Report No:	220-14217	Date:	12/17/2010

ORGANIC ANALYSES

VOCS

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks					X
C. Field blanks					X
3. Laboratory Control Sample (LCS) %R		X	X		
4. Surrogate spike recoveries		X		X	
5. Field duplicates RPD					X

VOCs - volatile organic compounds

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

INORGANIC ANALYSES

Metals

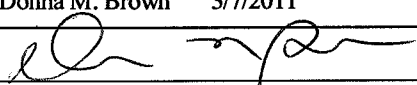
	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					X
3. Laboratory Control Sample (LCS) %R					X
4. Field duplicates RPD					X

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/7/2011
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners aka Hempstead	
Project Number:	2531-08	
Sample Date(s):	December 16, 2010	
Matrix/Number of Samples:	Water/ 3 (EW-1, EW-2 and AS) Trip Blank/0	
Analyzing Laboratory:	TestAmerica Laboratories, Shelton, CT	
Analyses:	Volatile Organic Compounds (VOCs): 40 CFR Part 136 method 624 Metals: Iron and manganese by USEPA SW846 Method 6010B	
Laboratory Report No:	220-14391	Date:01/03/2011

ORGANIC ANALYSES VOCs

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks					X
C. Field blanks					X
3. Laboratory Control Sample (LCS) %R					X
4. Surrogate spike recoveries		X		X	
5. Field duplicates RPD					X

VOCs - volatile organic compounds

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

INORGANIC ANALYSES Metals


	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					X
3. Laboratory Control Sample (LCS) %R					X
4. Field duplicates RPD					X

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/7/2011
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners aka Hempstead		
Project Number:	2531-08		
Sample Date(s):	December 30, 2010		
Matrix/Number of Samples:	Water/ 3 (EW-1, EW-2 and AS) Trip Blank/0		
Analyzing Laboratory:	TestAmerica Laboratories, Shelton, CT		
Analyses:	Volatile Organic Compounds (VOCs): 40 CFR Part 136 method 624 Metals: Iron and manganese by USEPA SW846 Method 6010B		
Laboratory Report No:	220-14483	Date:	1/13/2011

ORGANIC ANALYSES VOCS

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks					X
C. Field blanks					X
3. Laboratory Control Sample (LCS) %R					X
4. Surrogate spike recoveries		X		X	
5. Field duplicates RPD					X

VOCs - volatile organic compounds

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

INORGANIC ANALYSES Metals

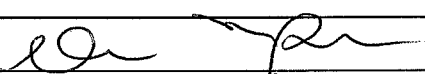
	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					X
3. Laboratory Control Sample (LCS) %R					X
4. Field duplicates RPD					X

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/7/2011
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners aka Hempstead	
Project Number:	2531-08	
Sample Date(s):	January 11, 2011	
Matrix/Number of Samples:	Water/ 3 (EW-1, EW-2 and AS) Trip Blank/0	
Analyzing Laboratory:	TestAmerica Laboratories, Shelton, CT	
Analyses:	Volatile Organic Compounds (VOCs): 40 CFR Part 136 method 624 Metals: Iron and manganese by USEPA SW846 Method 6010B	
Laboratory Report No:	220-14557	Date: 1/24/2011

ORGANIC ANALYSES

VOCS

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks					X
C. Field blanks					X
3. Laboratory Control Sample (LCS) %R					X
4. Surrogate spike recoveries		X		X	
5. Field duplicates RPD					X

VOCS - volatile organic compounds

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

INORGANIC ANALYSES

Metals

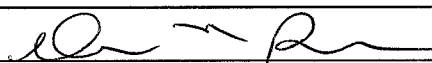
	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					X
3. Laboratory Control Sample (LCS) %R					X
4. Field duplicates RPD					X

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/7/2011
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners aka Hempstead		
Project Number:	2531-08		
Sample Date(s):	January 28, 2011		
Matrix/Number of Samples:	Water/ 3 (EW-1, EW-2 and AS) Trip Blank/0		
Analyzing Laboratory:	TestAmerica Laboratories, Shelton, CT		
Analyses:	Volatile Organic Compounds (VOCs): 40 CFR Part 136 method 624 Metals: Iron and manganese by USEPA SW846 Method 6010B		
Laboratory Report No:	220-14665	Date:	02/08/2011

ORGANIC ANALYSES

VOCS

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks					X
C. Field blanks					X
3. Laboratory Control Sample (LCS) %R					X
4. Surrogate spike recoveries		X		X	
5. Field duplicates RPD					X

VOCs - volatile organic compounds

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

INORGANIC ANALYSES

Metals

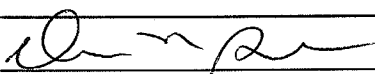
	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					X
3. Laboratory Control Sample (LCS) %R					X
4. Field duplicates RPD					X

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/7/2011
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners aka Hempstead	
Project Number:	2531-03	
Sample Date(s):	February 3, 2011	
Matrix/Number of Samples:	Air/ 3 (Carbon Inlet and Outlets)	
Analyzing Laboratory:	TestAmerica Laboratories, Knoxville, TN	
Analyses:	Volatile Organic Compounds (VOCs): TO15	
Laboratory Report No:	H1B080494	Date:2/16/2011

ORGANIC ANALYSES

VOCS

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Method blanks		X		X	
3. Laboratory Control Sample (LCS) %R		X		X	
4. Surrogate spike recovery		X		X	
5. Field duplicates RPD					X

VOCs - volatile organic compounds


%R - percent recovery

Comments:

Performance was acceptable with the following exceptions:

The laboratory used a one-point calibration for ethanol and ethanol was qualified as estimated (J/UJ) in all samples.

Propene was qualified as estimated (J) in LAG CARBON OUTLET and LEAD CARBON OUTLET due to an interfering non-target analyte.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/7/2011
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners aka Hempstead		
Project Number:	2531-08		
Sample Date(s):	February 10, 2011		
Matrix/Number of Samples:	Water/ 3 (EW-1, EW-2 and AS) Trip Blank/0		
Analyzing Laboratory:	TestAmerica Laboratories, Shelton, CT		
Analyses:	Volatile Organic Compounds (VOCs): 40 CFR Part 136 method 624 Metals: Iron and manganese by USEPA SW846 Method 6010B		
Laboratory Report No:	220-14734	Date:	3/1/2011

ORGANIC ANALYSES

VOCS

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks					X
C. Field blanks					X
3. Laboratory Control Sample (LCS) %R		X	X		
4. Surrogate spike recoveries		X		X	
5. Field duplicates RPD					X

VOCS - volatile organic compounds

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable with the following exception:

- The %R exceeded QC limits for carbon tetrachloride in the laboratory control sample. It was not detected in the associated samples and therefore the data was acceptable.

INORGANIC ANALYSES

Metals

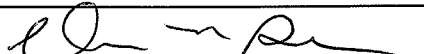
	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					X
3. Laboratory Control Sample (LCS) %R					X
4. Field duplicates RPD					X

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/7/2011
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners aka Hempstead		
Project Number:	2531-08		
Sample Date(s):	February 24, 2011		
Matrix/Number of Samples:	Water/ 3 (EW-1, EW-2 and AS) Trip Blank/0		
Analyzing Laboratory:	TestAmerica Laboratories, Shelton, CT		
Analyses:	Volatile Organic Compounds (VOCs): 40 CFR Part 136 method 624 Metals: Iron and manganese by USEPA SW846 Method 6010B		
Laboratory Report No:	220-14809	Date:	3/16/2011

ORGANIC ANALYSES

VOCS

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks					X
C. Field blanks					X
3. Laboratory Control Sample (LCS) %R		X		X	
4. Surrogate spike recoveries		X		X	
5. Field duplicates RPD					X

VOCS - volatile organic compounds

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable with the following exception:

These samples were analyzed twice by the laboratory. The original analysis was inadvertently loaded with the incorrect sample ids. The samples were reanalyzed outside of holding times and used to confirm the correct sample ids in the original analysis. The results were reported from the revised original sample run.

INORGANIC ANALYSES

Metals

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					X
3. Laboratory Control Sample (LCS) %R					X
4. Field duplicates RPD					X

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 3/31/2011
VALIDATION PERFORMED BY SIGNATURE:	