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September 15, 2011

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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. D004446-01
Quarterly Report No. 23
D&B No. 2531-03

Dear Mr. Long:

The 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 March 1, 2010 through May 31, 2010.

Operation, maintenance, monitoring and sampling activities were conducted by New York State Department of Environmental Conservation (NYSDEC) call-out contractor, Environmental Assessment and Remediations (EAR). Reporting, data management and assessment, and consulting and engineering 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 results of the sample 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. 2. In addition, a Site Management Plan (SMP) for the off-site Franklin Cleaners groundwater extraction and treatment system is currently being drafted.

Groundwater Extraction and Treatment System Operation and Maintenance

During this period, extraction well EW-1 operated at an average pumping rate of 33.5 gallons per minute (gpm) and extraction well EW-2 operated at an average pumping rate of 6.1 gpm. 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 a slightly decreasing trend, while EW-2 exhibits a slightly increasing trend.

Mr. Payson Long
Division of Environmental Remediation
New York State Department of Environmental Conservation
September 15, 2011

Approximately 0.89 pounds of tetrachloroethene (PCE) were removed from the extracted groundwater by the treatment system during this reporting period and approximately 40.15 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 decreasing trend and has declined since September 2007.

Based on measurements recorded at the treatment system discharge flow meter, approximately 7,243,909 gallons of treated groundwater have been discharged to the Nassau County Department of Public Works (NCDPW) storm sewer system. Note that 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 4,602,571 gallons of groundwater entering the treatment system. It was initially thought that this inconsistency was possibly due to either wear or fouling of the influent flow meter paddle wheels. However, as noted in Quarterly Report No. 21, cleaning of the influent flow meter paddle wheels was not effective at correcting this inconsistency. In addition, no significant wear on the paddle mechanisms was observed. It was also noted during several system monitoring events that the EW-1 flow meter was intermittently registering a flow of 0.0 gpm. As detailed in the recommendations of this and the previous quarterly reports, further diagnosis of these inconsistencies or replacement of the paddle-style flow meters with mag-style flow meters is warranted.

During this reporting period, the groundwater extraction and treatment system was operative for a total of approximately 2,100 hours and inoperative for a total of approximately 109 hours due to system alarm conditions, routine system maintenance and non-routine maintenance.

Alarm conditions responded to during this reporting period included the following:

- Alarm due to electrical problems likely caused by a storm event (one event); and
- High-high wet well condition (eight events).

Routine maintenance performed during this reporting period included the following:

- Blower maintenance conducted on March 11, and April 8, 2010.

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

- Installation of new, lockable monitoring well caps conducted on March 11, 2010;
- Replacement of influent flow sensor "T"s on the influent piping conducted on March 11, 2010;
- Diagnosis and repair of influent flow sensor paddle wheels conducted on May 13, 2010; and
- Maintenance of influent flow sensor for EW-2 and cleaning of blower inlet air screen conducted on May 28, 2010.

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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, is provided in Attachment D. A table summarizing the routine maintenance events completed this reporting period and the scheduled routine maintenance events for Quarter 23, 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. The samples collected through the April 29, 2010 sampling event were analyzed for VOCs by United States Environmental Protection Agency (USEPA) SW-846 Method 8260, while the samples collected on each succeeding sampling date were analyzed for VOCs by USEPA 40 CFR Method 624. Note that the change in the VOC analytical method from Method 8260 to Method 624, was approved by the NYSDEC as a means to reduce the overall sample analysis costs due to the smaller list of reported compounds under Method 624. In addition, the samples collected from the air stripper discharge sample tap were analyzed for iron and manganese utilizing USEPA SW-846 Method 6010 and for pH utilizing USEPA SW-846 Method 9040. Note that a field reading for pH is also collected from the air stripper effluent and the wet well sump to supplement the laboratory analytical pH results.

The analytical results of samples collected from the system influent are compared to the NYSDEC Class GA Groundwater Standards and Guidance Values, and the analytical results of samples collected from the 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 the analytical results, extraction well EW-1 exhibited concentrations of PCE above its NYSDEC Class GA Standard of 5.0 micrograms per liter (ug/l) in groundwater ranging in concentration from 11.0 ug/l to a maximum of 16.0 ug/l detected on March 4 and May 13, 2010. Extraction well EW-2 exhibited concentrations of PCE above its NYSDEC Class GA Standard of 5.0 ug/l ranging in concentration from 47.0 ug/l to a maximum of 76.0 ug/l detected on May 28, 2010. Based on the maximum concentrations detected and extraction well flow rates for EW-1 (34.4 gpm) and EW-2 (6.4 gpm), extraction well pump EW-1 is removing PCE at a rate of 2.76×10^{-4} pounds per hour (lb/hr) and extraction well pump EW-2 is removing PCE at a rate of 2.18×10^{-4} lb/hr.

The laboratory discharge sample results for the period exhibited VOCs and metals concentrations below the effluent limitations. Laboratory analyzed pH values were within the site-specific effluent range of 6.5 to 8.5; however, the pH field screening reading collected from the wet well on April 30, 2010 (6.44) exhibited a pH value slightly below the site specific effluent range of 6.5 to 8.5.

A summary of the extraction and treatment system performance results since September 2007 is provided in Attachment G.

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Division of Environmental Remediation
New York State Department of Environmental Conservation
September 15, 2011

In addition, 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 both carbon vessels were reported as 0.0 parts per million (ppm) for both the influent and effluent vapor samples at each carbon adsorption unit during six out of the thirteen sampling events. Exceedances of the NYSDEC site-specific effluent limit of 1.0 ppm for total VOCs at the carbon vessel outlet was reported for both carbon vessels during the remaining seven monitoring events. The effluent exceedances detected at carbon vessel number 1 ranged from a low of 1.1 ppm reported on April 8, 2010 to a high of 5.4 ppm reported on March 26, 2010, while the effluent exceedances detected at carbon vessel number 2 ranged from a low of 1.2 ppm reported on April 15, 2010 to a high of 2.7 ppm reported on March 26, 2010. 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.

It should also be noted that based on the maximum influent PCE mass flow rates for EW-1 and EW-2, the carbon vessels are being loaded at a rate of 4.94×10^{-4} lb/hr and given an average blower flow rate of 630 cubic feet per minute (ft³/min), this equates to a maximum air concentration of 0.03 ppm. The elevated PID readings noted above may indicate that the granular activated carbon (GAC) has been exhausted and, as recommended below, it may be warranted to collect an air sample for laboratory analysis from each carbon vessel effluent sample tap to determine if the carbon vessels need to be serviced.

Data Validation

All samples collected this reporting period have been analyzed by Test America Laboratories (TAL), Shelton, CT. The biweekly system samples were analyzed for VOCs. In addition, the 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.

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 39.6 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.

Mr. Payson Long
Division of Environmental Remediation
New York State Department of Environmental Conservation
September 15, 2011

- Inconsistencies were again noted between the influent total gallons pumped for EW-1 and EW-2 and the treatment system discharge total gallons pumped. Note that the influent flow meters were replaced on January 21, 2010; however, the meters continue to intermittently malfunction. In addition, non-routine cleaning and maintenance of the flow meters does not appear to be an effective remedy.
- The recurring high-high wet well condition continues to be the most frequent alarm condition, causing a majority of the total system downtime since start-up.
- The laboratory and field screening of the effluent water continues to detect intermittently low pH values 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 4.94×10^{-4} lb/hr. Given an average blower flow rate of 630 ft³/min, this equates to a maximum influent air concentration of 0.03 ppm.
- The PID readings collected from the carbon vessel effluent sample taps intermittently exhibit total VOCs greater than the site specific effluent limit of 1.0 ppm.
- 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.
- It is recommended that the NYSDEC call-out contractor diagnose the recurring high-high wet well conditions.
- Due to low pH results detected at the air stripper effluent, it is recommended to continue the 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.

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Mr. Payson Long
Division of Environmental Remediation
New York State Department of Environmental Conservation
September 15, 2011

Page 6

- Due to the intermittent elevated PID readings detected at the carbon adsorption vessel effluent sample taps, it is recommended that a vapor sample be collected and laboratory analyzed via Method TO-15 at each carbon vessel effluent sample tap, in order to determine the actual VOC concentrations in the effluent vapor and to determine whether a carbon change-out is warranted at this time.

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

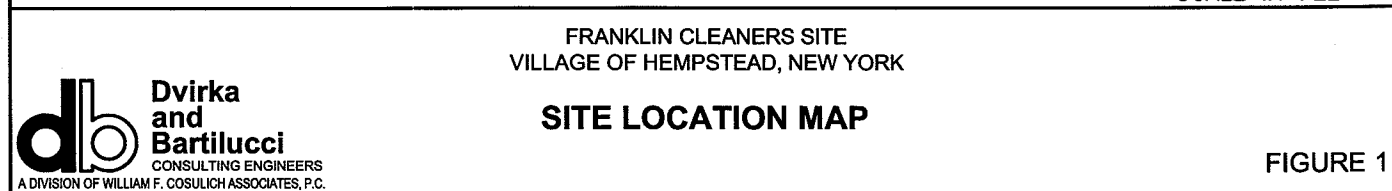
SET/LP/OI(tj)

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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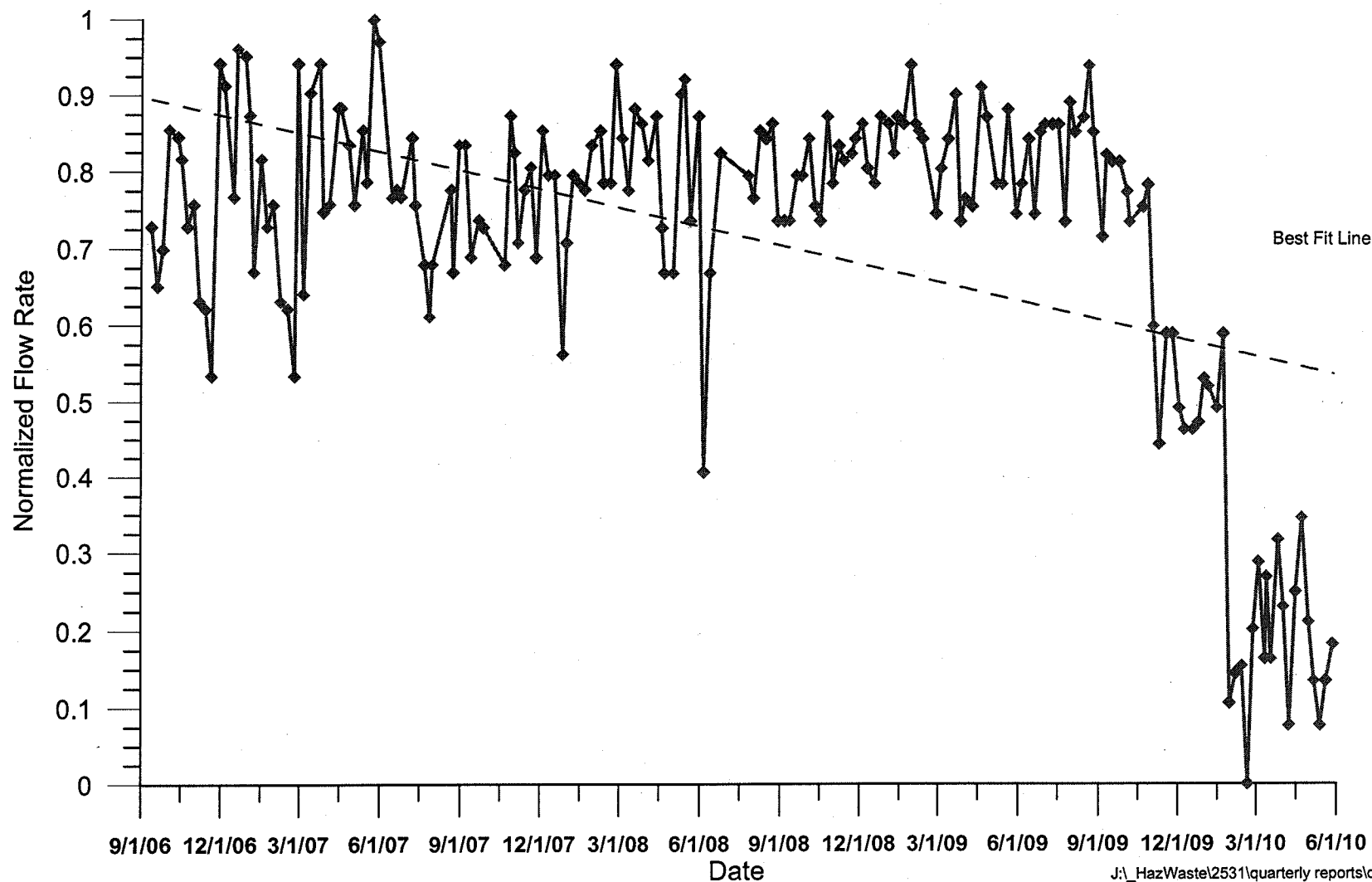
ATTACHMENT A

FIGURES

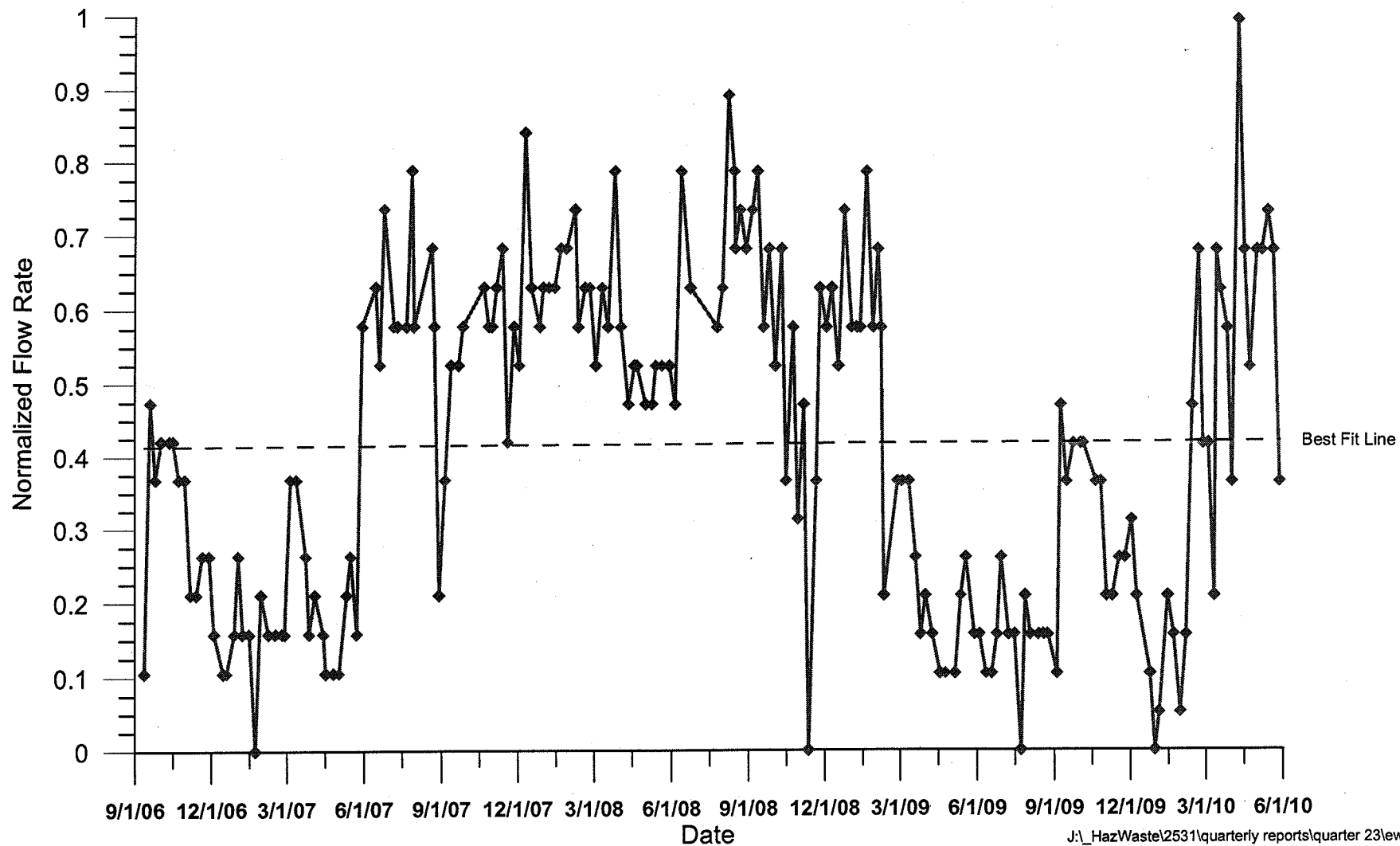


ATTACHMENT B

**NORMALIZED EXTRACTION WELL
FLOW RATE GRAPHS**



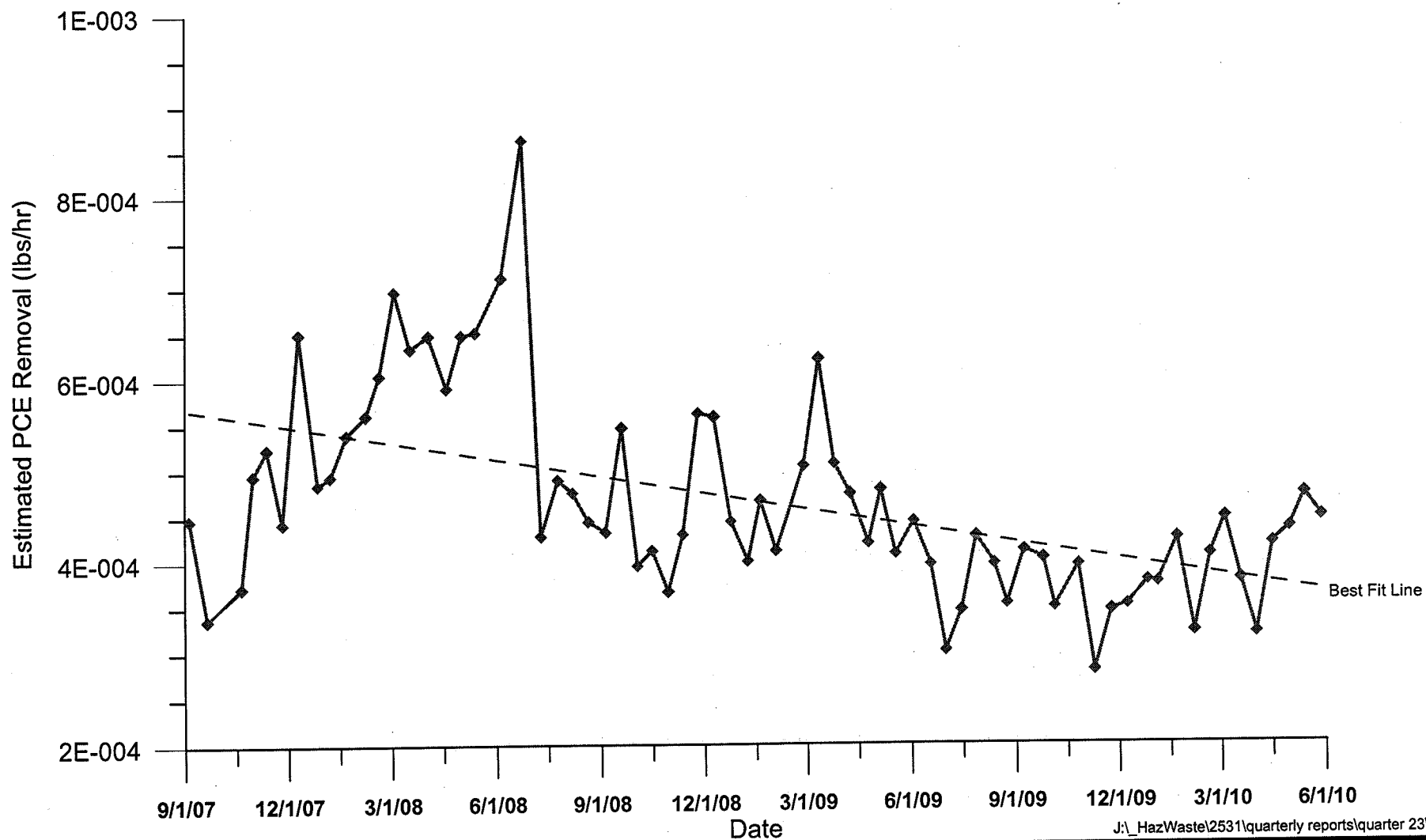
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ATTACHMENT C

AVERAGE PCE REMOVAL RATE GRAPH



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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)		
KS, KH + PL	2/24/10 0200	1430	<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 - Pump purge water through system.					
KS, PB + KH	2/25/10 0730	1500	<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: CONTINUE GWS + purge through system. Site check.					
KS	3/4/10 1100	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: 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)	
KS	1015 3/11/10	1545	<input checked="" type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Maintenance
KH, PL	1015 3/11/10	1545	<input type="checkbox"/> Sampling	<input checked="" type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	
Description: KS-site check, monitor pH. KH, PL- BLOWER MAINTENANCE, WELL CAP REPLACEMENT, REPLACE FLOW SENSOR'S. DTW'S ON EW-1 + EW-2, LOCATE PTW WELLS ON SS RECORD TWD + DTW AS PER PM.				
PC	3-13-10 1630 hr	1830/86	<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 PROJ. MANAGER CALL - UPON ARRIVAL SYS. OPERATING; SYSTEM DID SHUT DOWN 3X WHILE ON SITE DUE ELEC. PROBLEM (SERVICE) CHECK TITAT - <u>4 TIMES</u> - HEAVY WIND + RAIN ALL DAY				
PL	AM		<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: Respond to system shut down				

**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	3/17/10 1030	1130	<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: Respond to system shutdown (called 2330, 11/16/10) wet well Hi-alarm caused shut down Restarted @ 11:00					
KS	3/18/10 0930	1130	<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 sampling.					
KS	3/18/10 1300	1415	<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: WW HH / Pump down w/w Restart @ 1322 Totalizer Reading @ 1300 system off 36318563 Totalizer Reading @ 1323 system Restart 36319313.					

**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)	
KH	3-20-10 1300	1400	<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: Wetwell alarm, EWL UnderVolder, Reset VFD, Pumped down wet well, Restarted System				
KS	3/26/10 0940	1230	<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 SHK check.				
KS	4/1/10 0945	1214	<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: System site check + Bi-weekly 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)	
KS	4/8/10 1000	1215	<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 system site check, Blower maintenance.				
KS	4/15/10 0930	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: system running upon arrival + departure, weekly site check, Bi-weekly sampling, collection of air samples from ASMW 6 + ASMW 7.				
KS	4/17/10 0745	0845	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Maintenance
KA	4-21-10 0945	1100	<input type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input checked="" type="checkbox"/> Alarm Response	
Description: Alarm #3 ww/HH.				
Alarm 3 ww/HH				

**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 0930	4/22/10 0930	1230	<input checked="" type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Maintenance
			<input type="checkbox"/> Sampling	<input checked="" type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	Property maintenance.
Description: WEEKLY site check + property maintenance.				
KS, ES	4/30/10 1045		<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Maintenance
			<input checked="" type="checkbox"/> Sampling	<input checked="" type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	Change KEY Lock Box.
Description: WEEKLY site check, BI WEEKLY - SAMPLING. NO PROBLEMS.				
KS	5/4/10 0950	1045	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Maintenance
			<input type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input checked="" type="checkbox"/> Alarm Response	#3 HH/WW.
Description: pump wet well down + Restart @ 1005 monitor system				

**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	5/6/10 1000	1300	<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Maintenance	
			<input type="checkbox"/> Sampling	<input checked="" type="checkbox"/> Other (Provide Description)	
			<input type="checkbox"/> Alarm Response	property maintenance	
Description: WEEKLY site check - monitor ph - EVERYTHING good - swept.					
PL	5/11/10	1430	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Maintenance	
ES			<input checked="" type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)	
			<input type="checkbox"/> Alarm Response		
Description: MW Sampling - system on upon arrival/departure					
PL	5/12/10		<input type="checkbox"/> Monitoring	<input type="checkbox"/> Maintenance	
ES	0930		<input checked="" type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)	
			<input type="checkbox"/> Alarm Response		
Description: MW Sampling system off upon arrival, WW HH alarm, pumped down, restarted					

**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	5/13/10 1230	1500	<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 ck / BIWEEKLY Sample. Flow SENSOR 2 NOT WORKING - shut system Down to check + clean PADDLE WHEELS - REPLACED. System Running NORMAL upon DEPARTURE.				
PL	5/17/10 1100	1215	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Maintenance
			<input type="checkbox"/> Sampling	<input checked="" type="checkbox"/> Other (Provide Description)
			<input checked="" type="checkbox"/> Alarm Response	
Description: WWHH Alarm Pumped down, restarted				
KS	5/20/10 0945	1300	<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	minor property
Description: WEEKLY site 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	5/28/10 0950	1230	<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: Clean Inlet AIG screen, Flow Sensor maintenance EW-2. Weekly site check, Bi-weekly samples.				
KS	6/2/10 1240	1415	<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: Stopped to pick up log Book - System not running upon arrival - No call from SCADA - HH in the w/w. Pump down Restart - trouble shoot phone line not working. Called Verizon Appt @ 6/3/10 @ 9-12pm.				
KS	6/3/10 0900	1200	<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Maintenance
Verizon Tech	6/3/10 0900	1000	<input type="checkbox"/> Sampling	<input checked="" type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	
Description: Phone line Repair, Site check, Property maintenance support.				

**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	6/7/10 1315	1400	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Maintenance
			<input type="checkbox"/> Sampling	<input checked="" type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	CK phone line repair
Description: SET ALARM.				
KS	6/10/10 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 - Biweekly Sampling. monitor pH.				
KH	6-12-10 1345	1445	<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: System down due to high water in wet well. Pumped down and restarted. System went down 1030 totalizer H5444100 Restart system @ 1400				

**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)	
KH	6-16-10 1200	1315	<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: System down @ 0600 do to High wet well totalizer 43757682				
KS	6/17/10 0945	1500	<input checked="" type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Maintenance
KH	6/17/10 0945	1430	<input type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	
Description: KS: weekly site check, property maintenance, Blower maintenance. Assist with adjusting WW- Float switches. KH: monitor Floatswitch, Adjust Float switches.				
KS	6/22/10 1115	1200	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Maintenance
			<input type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input checked="" type="checkbox"/> Alarm Response	#3
Description: HH/WW. Pump down/restart.				

**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	0630 6/25/10	0930	<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Maintenance
			<input checked="" type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input checked="" type="checkbox"/> Alarm Response	#3 HH/WW
Description: Bi weekly sampling, weekly site check - Restart on arrival.				
PL/RBA	0900 6/25/10	1445	<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: On site troubleshooting wet well pumps & pump controls				
KS	7/1/10 @ 1000	1315	<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 + property maintenance, system not running upon arrival.				

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

DATE	2/19/10 KS	2/25/10 KS	3/4/10 KS	3/11/10 KS	X
TIME	0815	1220	1100	1015	
EW-1					
Flow Rate (gpm)	31.4	33.5	34.4	33.1	
Total Flow (gal)	0088470@0850	01169118@1308	01494925@1107	01824832@1047	
Influent pH (grab sample field reading)	7.86	5.52	6.62	7.23	
VFD Operating Frequency (Hz)	60.0	80.0	80.0	80.0	
Pump Runtime (hrs @ time)	4502440@0840	4517172@1305	4533779@1105	4550544@1044	
Bicycle Pump Pressure Reading (psi)	—	—	—	—	
Water Column Above Pump (ft H ₂ O)(psi x 2.31)	—	—	—	—	
Routine Sampling Performed (YES/NO)	YES @ 0923	NO	YES @ 1132.	NO	
EW-2					
Flow Rate (gpm)	6.3	5.8	5.8	5.4	
Total Flow (gal)	10980385@0850	11029477@1308	11030281@1108	11086245@1047	
Influent pH (grab sample field reading)	8.09	8.35	7.70	7.13	
VFD Operating Frequency (Hz)	60.0	80.0	80.0	60.0	
Pump Runtime (hrs @ time)	2632420@0840	2647159@1305	2663769@1105	2680534@1044	
Bicycle Pump Pressure Reading (psi)	—	—	—	—	
Water Column Above Pump (ft H ₂ O)(psi x 2.31)	—	—	—	—	
Routine Sampling Performed (YES/NO)	YES @ 0933	NO	YES @ 1145	NO	
Air Stripper					
Sump Level (inches)	6 inch	6 inch	6 inch	6 inch	
Effluent pH (grab sample field reading)	7.97	6.94	7.69	7.62	
Fresh Air Inlet Vacuum (in H ₂ O)	1.5	1.5	1.5	1.5	
Blower Suction (in H ₂ O)	21	21	21	21	
Blower Discharge (in H ₂ O)	24	24	24.5	25	
Blower Runtime (hrs @ time)	3388825@0840	3403574@1305	3420185@1105	3436950@1044	
Routine Sampling Performed (YES/NO)	YES @ 0944	NO	YES @ 1211	NO	

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

DATE	2/19/10 KS	2/25/10 KS	3/4/10 KS	3/11/10 KS	X
TIME	0815	1300	1100	1015	
Vapor Phase Carbon					
Lead/Lag Unit					
Lead pressure Inlet/Outlet (psi)	24/19	24/19	24.5/19	25/19	
Lead Total VOC Conc. Inlet/Outlet (ppm)	0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0	
Lag pressure Inlet/Outlet (psi)	9/8	9/8	9/8	9/6.5	
Lag Total VOC Conc. Inlet/Outlet (ppm)	5.2/4.3	0.0/0.0	0.0/0.0	0.0/0.0	
Exhaust Flow Rate (scfm)	610	610	620	620	
Exhaust Temperature (°F)	80°	80°	81°	81°	
Wet Well					
Pump No. 1 Runtime (hrs)	155044 @ 0840	155785 @ 1305	156632 @ 1106	157501 @ 1045	
Pump No. 2 Runtime (hrs)	151376 @ 0840	151904 @ 1305	152494 @ 1106	153082 @ 1045	
Wet Well pH (grab sample field reading)	7.10	6.65	7.79	7.80	
Valve Vault					
Pump No. 1 Operating Pressure (psi)	9	9	9	9	
Pump No. 1 Flow Rate (gpm)	65	67	65	65	
Pump No. 2 Operating Pressure (psi)	10	10	10	10	
Pump No. 2 Flow Rate (gpm)	68	70	70	69	
Flow Meter Vault					
Total Flow (gallons @ time)	34268526 @ 0915	34776787 @ 1320	35357700 @ 1124	39544643 @ 1130	
Jet Pump					
Line Pressure (psi)	-0	-0	-0	-0	

COMMENTS

2/19/10 VSI R-95 + PID 11. EW-2 Flow sensor not recording on arrival. Working normal upon Departure.

3/4/10 Flow Sensor not recording upon arrival @ 1100 - Fixed. Check @ 1140, 1220 - Not running - Fixed
Each Time - Running upon departure. VSI-R-95 - PID-11

2/25/10 VSI-R97 + PID-16

3-11-10 VSI-R90, PID 11

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

DATE	3-13-10 BC	3/18/10 KS	3/26/10 0940	4/1/10 0945	
TIME	1630	0930	KS	KS	
EW-1					
Flow Rate (gpm)	34.2	33.1	34.7	33.8	
Total Flow (gal)	01921506 @ 1701	02026870 @ 0948	02388172 @ 1101	02669482 @ 1032	
Influent pH (grab sample field reading)		7.78	5.64	5.83	
VFD Operating Frequency (Hz)	80	80	80	80.0	
Pump Runtime (hrs @ time)	4555575 @ 1717	4560932 @ 0944	4579376 @ 1100	4593727 @ 1020	
Bicycle Pump Pressure Reading (psi)	—	—	—	—	
Water Column Above Pump (ft H ₂ O) (psi x 2.31)	—	—	—	—	
Routine Sampling Performed (YES/NO)	NO	YES @ 1011	NO	YES @ 1106	
EW-2					
Flow Rate (gpm)	6.3	6.2	6.1	5.7	
Total Flow (gal)	11104041 @ 1701	11123314 @ 0948	11188158 @ 1101	11238811 @ 1032	
Influent pH (grab sample field reading)		9.77	5.23	5.48	
VFD Operating Frequency (Hz)	60	60	60	60.0	
Pump Runtime (hrs @ time)	2685526 @ 1718	2696922 @ 0944	2709367 @ 1100	2723718 @ 1021	
Bicycle Pump Pressure Reading (psi)	—	—	—	—	
Water Column Above Pump (ft H ₂ O) (psi x 2.31)	—	—	—	—	
Routine Sampling Performed (YES/NO)	NO	YES @ 1019	NO	YES @ 1114	
Air Stripper					
Sump Level (inches)		6	6	6	
Effluent pH (grab sample field reading)		11.75	6.27	7.12	
Fresh Air Inlet Vacuum (in H ₂ O)	1.5	1.5	1.5	1.5	
Blower Suction (in H ₂ O)	20	20	20	20	
Blower Discharge (in H ₂ O)		24	24	25	
Blower Runtime (hrs @ time)	3449985 @ 1719	3447480 @ 0944	3465940 @ 1100	3480291 @ 1020	
Routine Sampling Performed (YES/NO)	NO	YES @ 1031	NO	YES @ 1124	

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

DATE	3-13-10 BC	3/18/10 RS	3/26/10 RS	4/1/10 0945	
TIME	1630	0930	0940	KS	
Vapor Phase Carbon					
Lead/Lag Unit					
Lead pressure Inlet/Outlet (psi)	23/19 "H ₂ O	24/19	24/19	25/19	
Lead Total VOC Conc. Inlet/Outlet (ppm)		0.0/0.0	6.6/5.4	0.0/0.0	
Lag pressure Inlet/Outlet (psi)	9/6 "H ₂ O	9/6.5	9/6	9/6	
Lag Total VOC Conc. Inlet/Outlet (ppm)		0.0/0.0	2.7/2.7	0.0/0.0	
Exhaust Flow Rate (scfm)	620	620	620	620	
Exhaust Temperature (°F)	76°F	81°F	80°	81°	
Wet Well					
Pump No. 1 Runtime (hrs)	157760/1716	158042@0945	159002@1100	159756@1031	
Pump No. 2 Runtime (hrs)	153257/1716	153447@0945	154107@1100	154615@1031	
Wet Well pH (grab sample field reading)	NONE	13.59	6.49	7.33	
Valve Vault					
Pump No. 1 Operating Pressure (psi)		10	9	9	
Pump No. 1 Flow Rate (gpm)		67	66	64	
Pump No. 2 Operating Pressure (psi)		11	9	10	
Pump No. 2 Flow Rate (gpm)		68	67	70	
Flow Meter Vault					
Total Flow (gallons @ time)	3619625@1505	36310389@1003	36962667@1115	37471358@1042	
Jet Pump					
Line Pressure (psi)	0	0	0	0	

COMMENTS

3-13-10 Respond to Alarm Call ; Sys Power Shut Down Momentarily 3X while on site
 3-18-10 YSI-R-96 + PID-11.
 3-26-10 YSI-R-97 + PID-11 - no problems.
 4-1-10 YSI R-98 + PID-11 no problems.

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

DATE	4/8/10 KS	4/15/10 KS	4/22/10 KS	4/30/10 KS, ES	5/6/10 KS
TIME	1000	0930	0930	1045	1000
EW-1					
Flow Rate (gpm)	32.2 gpm	34.0	35.0	33.6	32.8
Total Flow (gal)	6299820 @ 1017	6332890 @ 1118	6362120 @ 1131	6399808 @ 1202	64267080 @ 1042
Influent pH (grab sample field reading)	5.85	5.86	5.82	5.55	5.62
VFD Operating Frequency (Hz)	80.0 Hz	80.0 Hz	80.0 Hz	80.0 Hz	80.0 Hz
Pump Runtime (hrs @ time)	4610501 @ 1015	4627322 @ 1115	4642231 @ 1128	4661483 @ 1200	4675249 @ 1040
Bicycle Pump Pressure Reading (psi)	_____	_____	_____	_____	_____
Water Column Above Pump (ft H ₂ O) (psi x 2.31)	_____	_____	_____	_____	_____
Routine Sampling Performed (YES/NO)	NO	YES @ 1148	NO	YES @ 1233	NO
EW-2					
Flow Rate (gpm)	6.9 gpm	6.3	6.0	6.3	6.3
Total Flow (gal)	11298307 @ 1017	11357822 @ 1118	11410666 @ 1131	11478793 @ 1202	11527318 @ 1042
Influent pH (grab sample field reading)	5.53	6.56	5.40	5.38	5.31
VFD Operating Frequency (Hz)	60.0 Hz	60.0 Hz	60.0 Hz	60.0 Hz	60.0 Hz
Pump Runtime (hrs @ time)	2740492 @ 1015	2757313 @ 1115	2772222 @ 1128	2791475 @ 1200	2805240 @ 1040
Bicycle Pump Pressure Reading (psi)	_____	_____	_____	_____	_____
Water Column Above Pump (ft H ₂ O) (psi x 2.31)	_____	_____	_____	_____	_____
Routine Sampling Performed (YES/NO)	NO	YES @ 1158	NO	YES @ 1242	NO
Air Stripper					
Sump Level (inches)	6"	6"	6"	6"	6"
Effluent pH (grab sample field reading)	7.14	7.07	6.98	6.28	6.50
Fresh Air Inlet Vacuum (in H ₂ O)	1.5	1.5	1.5	1.5	3 Before / 1.5 after
Blower Suction (in H ₂ O)	21	20.5	20.5	21	21
Blower Discharge (in H ₂ O)	24	25	24	24	22.5
Blower Runtime (hrs @ time)	3497065 @ 1015	3513886 @ 1115	3528826 @ 1128	3548079 @ 1200	3561853 @ 1040
Routine Sampling Performed (YES/NO)	NO	YES @ 1212	NO	YES @ 1253	_____

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

DATE	4/8/10 KS	4/15/10 KS	4/22/10 KS	4/30/10 KS, ES	KS 5/6/10
TIME	1000	0930	0930	1045	1000
Vapor Phase Carbon					
Lead/Lag Unit					
Lead pressure Inlet/Outlet (psi)	24 / 19	25 / 19	24 / 19	24 / 19	22.5 / 18
Lead Total VOC Conc. Inlet/Outlet (ppm)	0.8 / 1.1	1.3 / 1.3 ppm	0.0 / 0.0	0.0 / 0.0	0.8 / 0.6
Lag pressure Inlet/Outlet (psi)	9 / 6	9 / 6	8 / 7	9 / 6	8 / 6
Lag Total VOC Conc. Inlet/Outlet (ppm)	1.1 / 1.4	1.3 / 1.2 ppm	0.0 / 0.0	0.0 / 0.0	0.2 / 0.2
Exhaust Flow Rate (scfm)	620	640	620	620	600
Exhaust Temperature (°F)	82°	80°	81°	80°	85°
Wet Well					
Pump No. 1 Runtime (hrs)	16 0669 @ 1016	161570 @ 1116	162381 @ 1129	163430 @ 1201	164187 @ 1040
Pump No. 2 Runtime (hrs)	155198 @ 1016	155778 @ 1116	156291 @ 1129	156954 @ 1201	157421 @ 1040
Wet Well pH (grab sample field reading)	7.35	7.32	7.12	6.44	6.86
Valve Vault					
Pump No. 1 Operating Pressure (psi)	10	9	9.5	10.2	10
Pump No. 1 Flow Rate (gpm)	66	66	67	64	65
Pump No. 2 Operating Pressure (psi)	10	9	9.5	10.2	10
Pump No. 2 Flow Rate (gpm)	68	66	75	67	68
Flow Meter Vault					
Total Flow (gallons @ time)	38063860 @ 1030	38658458 @ 1130	39184729 @ 1138	39868436 @ 1219	40359218 @ 1104
Jet Pump					
Line Pressure (psi)	0	0	0	0	0

COMMENTS

4/8/10 YSI R-98 PID-16 No problems

4/15/10 YSI R-98 PID-16 No problems.

4/22/10 YSI R-98 PID-16 No problems

4/30/10 YSI R-97 PID-11 No problems.

5/6/10 YSI R-97 PID-11 Leaks + Debris blocking Fresh Air Inlet - Cleaned improved pressure.

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

DATE	5/13/10 KS	5/20/10 KS	5/28/10 KS		
TIME	1230	0945	0950		
EW-1					
Flow Rate (gpm)	32.2	32.8	33.3		
Total Flow (gal)	64580917@1227	64896434@0953	65271438@1036		
Influent pH (grab sample field reading)	5.64	5.79	6.09		
VFD Operating Frequency (Hz)	80.0 Hz	80.0 Hz	80.0 Hz		
Pump Runtime (hrs @ time)	4691349@1253	4767562@0954	4726827@1033		
Bicycle Pump Pressure Reading (psi)	—	—	—		
Water Column Above Pump (ft H ₂ O)(psi x 2.31)	—	—	—		
Routine Sampling Performed (YES/NO)	YES@ 1321	NO	YES- 1100		
EW-2					
Flow Rate (gpm)	* 6.4	6.3	5.7.		
Total Flow (gal)	* 11571041@1303	11627439@0957	11628498@1036		
Influent pH (grab sample field reading)	5.29	5.39	5.49		
VFD Operating Frequency (Hz)	60.0 Hz	60.0 Hz	60.0 Hz		
Pump Runtime (hrs @ time)	2821340@1253	2837554@0954	2856810@1033		
Bicycle Pump Pressure Reading (psi)	—	—	—		
Water Column Above Pump (ft H ₂ O)(psi x 2.31)	—	—	—		
Routine Sampling Performed (YES/NO)	YES@ 1337	NO	YES@ 1120		
Air Stripper					
Sump Level (inches)	6"	6"	6"		
Effluent pH (grab sample field reading)	6.55	6.58	6.89		
Fresh Air Inlet Vacuum (in H ₂ O)	1.5	2	5 - After cleaning ⁽¹⁾		
Blower Suction (in H ₂ O)	20.5	21	21.5		
Blower Discharge (in H ₂ O)	25	24	21		
Blower Runtime (hrs @ time)	3577961@1254	3594182@0955	3613447@1033		
Routine Sampling Performed (YES/NO)	YES@ 1350	NO	YES@ 1135		

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

DATE	KS 5/13/10	5/20/10 KS	5/28/10 KS		
TIME	1230	0945	0950		
Vapor Phase Carbon					
Lead/Lag Unit					
Lead pressure Inlet/Outlet (psi)	25/20	24/19	21/17		
Lead Total VOC Conc. Inlet/Outlet (ppm)	2.2/2.2	1.1/1.2	1.0/1.0		
Lag pressure Inlet/Outlet (psi)	9/7	9/6	8/6		
Lag Total VOC Conc. Inlet/Outlet (ppm)	2.4/2.5	1.2/1.6	1.0/1.5		
Exhaust Flow Rate (scfm)	120	620	580		
Exhaust Temperature (°F)	81°	80°	84°		
Wet Well					
Pump No. 1 Runtime (hrs)	165073 @ 1254	165955 @ 0955	167012 @ 1034		
Pump No. 2 Runtime (hrs)	157969 @ 1254	158532 @ 0955	159195 @ 1034		
Wet Well pH (grab sample field reading)	6.81	6.76	7.28		
Valve Vault					
Pump No. 1 Operating Pressure (psi)	10	2	1.4 psi		
Pump No. 1 Flow Rate (gpm)	65 gpm	65 gpm	66 gpm		
Pump No. 2 Operating Pressure (psi)	10	1.9	1.2 psi		
Pump No. 2 Flow Rate (gpm)	69 gpm	70 gpm	67 gpm		
Flow Meter Vault					
Total Flow (gallons @ time)	40932142 @ 1317	41509722 @ 1027	42195019 @ 1052		
Jet Pump					
Line Pressure (psi)	0	0	0		

COMMENTS

* EW2 - Flow Sensor not working on Arrival - Totalizer recorded before shut down @ 1400.
 5/13/10 6PM's After cleaning 6.4 Totalizer of EW2 @ restart 11571077 @ 1428.
 5/20/10 - WW pump psis were low - called PM - no other indication of a problem.
 5/28/10 - Totalizer Reading Recorded @ shut down for maintenance, Inlet screen + Flow Sensor EW

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
4/8/10 1057	4/8/10 1146	Blower maintenance	STANDARD. ON/OFF.	@ Shut Down 38065534 @ 1100
4/16/10 2115	4/17/10 0817	WW/HH	Pump ww down Restart System	dash 38770828 up 38771496
4-21-10 0449	4-21-10 1021	WW/HH	PUMP W-W down Restart System	39097273
5/4/10 0510	5/4/10 1005	HH/WW Alarm 3	Pump down wet well. Restart + Monitor	dash 40183821
5/12/10 1230am	5/12/10 1000	44/WW Alarm 3	Pump down ww, Restarted	4688655
5/13/10 1400pm	5/13/10 1427	F/S	CLEARED PaddleS on F/S Flow Sensor @ EW-2 not working.	40934516
5/28/10 1145	5/28/10 @ 1215	MAINTENANCE	Flow Sensor EW-2 clean inlet screen.	42198402
6/2/10 1239	6/2/10 @ 1340	? system off	upon arrival system not running / phone lined down / restart.	42603820

Call for
PHONE BEFORE.

ATTACHMENT E

ROUTINE MAINTENANCE SCHEDULE

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

Activity	3/1/2010 23rd Qtr	4/1/2010 23rd Qtr	5/1/2010 23rd Qtr	6/1/2010 24th Qtr	7/1/2010 24th Qtr	8/1/2010 24th Qtr
Blower Maintenance	3/11/10	4/8/10				
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	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
DATE OF	3/4/2010	3/18/2010	4/1/2010	4/15/2010	4/30/2010	5/13/2010	5/28/2010	
COLLECTED	EAR	EAR	EAR	EAR	EAR	EAR	EAR	
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
VOCs								(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	0.48 J	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	--	--	5 ST
Acetone	U	U	U	1.3 J	U	--	--	50 GV
Carbon disulfide	U	U	U	U	U	--	--	60 GV
Methyl acetate	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	0.22 J	U	U	0.21 J	U	--	--	10 GV
1,1-Dichloroethane	U	U	U	U	U	U	U	5 ST
cis-1,2-Dichloroethene	U	U	U	U	U	--	--	5 ST
2-Butanone	U	U	U	U	U	--	--	50 GV
Chloroform	U	U	U	U	U	0.13 J	0.19 J	7 ST
1,1,1-Trichloroethane	U	U	U	U	U	U	U	5 ST
Cyclohexane	U	U	U	U	U	--	--	--
Carbon tetrachloride	U	U	U	U	U	U	U	5 ST
Benzene	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	--	--	--
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	--	--	--
Toluene	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	16	14	11	14	15	16	14	5 ST
2-Hexanone	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	--	--	5 ST
Chlorobenzene	U	U	U	U	U	U	U	5 ST
Ethylbenzene	U	U	U	U	U	--	--	5 ST
Xylene (total)	U	U	U	U	U	--	--	5 ST
Styrene	U	U	U	U	U	--	--	5 ST
Bromoform	U	U	U	U	U	U	U	50 GV
Isopropylbenzene	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	--	--	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	--	--	5 ST
1,2,4-Trimethylbenzene	U	U	U	1.7 J	U	--	--	5 ST
Napthalene	U	U	U	1.0 J	U	--	--	10 GV
Methyl Ethyl Ketone	U	U	U	U	U	--	--	50 GV
2-Chloroethyl vinyl ether	--	--	--	--	--	U	U	5 ST

NOTES:

ABBREVIATIONS:

Concentration exceeds NYSDEC Class GA Groundwater Standards or Guidance Values

ug/L = Micrograms per liter
 --: Not established

ST: Standard Value
 GV: Guidance Value

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	3/4/2010	3/18/2010	4/1/2010	4/15/2010	4/30/2010	5/13/2010	5/28/2010	
COLLECTED BY	EAR	EAR	EAR	EAR	EAR	EAR	EAR	
UNITS	(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	0.29 J	0.19 J	--
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	0.36 J	0.35 J	5 ST
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U	U	--	--	5 ST
Acetone	U	22	U	U	U	--	--	50 GV
Carbon disulfide	U	U	U	U	U	--	--	60 GV
Methyl acetate	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	0.6 J	0.63 J	0.6 J	0.59 J	0.54 J	--	--	10 GV
1,1-Dichloroethane	U	U	U	U	U	0.12 J	0.18 J	5 ST
cis-1,2-Dichloroethene	U	U	U	U	U	--	--	5 ST
2-Butanone	U	U	U	U	U	--	--	50 GV
Chloroform	U	U	U	U	U	0.18 J	0.21 J	7 ST
1,1,1-Trichloroethane	U	U	U	U	U	U	U	5 ST
Cyclohexane	U	U	U	U	U	--	--	--
Carbon tetrachloride	U	U	U	U	U	U	U	5 ST
Benzene	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	--	--	--
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	--	--	--
Toluene	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	60	48	47	58	59	68	76	5 ST
2-Hexanone	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	--	--	5 ST
Chlorobenzene	U	U	U	U	U	U	U	5 ST
Ethylbenzene	U	U	U	U	U	--	--	5 ST
Xylene (total)	U	U	U	U	U	--	--	5 ST
Styrene	U	U	U	U	U	--	--	5 ST
Bromoform	U	U	U	U	U	U	U	50 GV
Isopropylbenzene	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	--	--	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	--	--	5 ST
1,2,4-Trimethylbenzene	U	U	U	0.98 J	U	--	--	5 ST
Napthalene	U	U	U	0.34 J	U	--	--	10 GV
Methyl Ethyl Ketone	U	57	U	U	U	--	--	50 GV
2-Chloroethyl vinyl ether	--	--	--	--	--	U	U	5 ST

NOTES:

Concentration exceeds
NYSDEC Class GA

ABBREVIATIONS:

ug/L = Micrograms per liter
--: Not established

QUALIFIERS:

ST: Standard Value U: Compound analyzed for but not detected
GV: Guidance Value 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 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 EFFLUENT (AS-1)	EFFLUENT LIMITATIONS	NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES
SAMPLE	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
DATE OF COLLECTED	3/4/2010	3/18/2010	4/1/2010	4/15/2010	4/30/2010	5/13/2010	5/28/2010		
	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)
Dichlorodifluoromethane	U	U	U	U	U	U	U	--	5 ST
Chloromethane	U	U	U	U	U	0.16 J	0.14 J	--	--
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	--	--	--	5 ST
Acetone	U	U	U	1 J	U	--	--	--	50 GV
Carbon disulfide	U	U	U	U	U	--	--	--	60 GV
Methyl acetate	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	--	--	--	10 GV
1,1-Dichloroethane	U	U	U	U	U	U	U	10	5 ST
cis-1,2-Dichloroethene	U	U	U	U	U	--	--	10	5 ST
2-Butanone	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	10	5 ST
Cyclohexane	U	U	U	U	U	--	--	--	--
Carbon tetrachloride	U	U	U	U	U	U	U	--	5 ST
Benzene	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	10	5 ST
Methylcyclohexane	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	--	--	--	--
Toluene	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	U	U	U	U	U	0.52 J	0.97 J	5	5 ST
2-Hexanone	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	--	--	--	5 ST
Chlorobenzene	U	U	U	U	U	U	U	--	5 ST
Ethylbenzene	U	U	U	U	U	--	--	--	5 ST
Xylene (total)	U	U	U	U	U	--	--	--	5 ST
Styrene	U	U	U	U	U	--	--	--	5 ST
Bromoform	U	U	U	U	U	U	U	--	50 GV
Isopropylbenzene	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	--	--	--	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	--	--	--	5 ST
1,2,4-Trimethylbenzene	U	U	U	0.81 J	U	--	--	--	5 ST
2-Chloroethyl vinyl ether	--	--	--	--	--	U	U	--	5 ST

NOTES:

ABBREVIATIONS

QUALIFIERS:

Concentration exceeds Site Specific Effluent Limitation

ug/L = Micrograms per liter
 --: Not established

ST: Standard Value
 GV: Guidance Value

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 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	3/4/2010	3/18/2010	4/1/2010	4/15/2010	4/30/2010	5/13/2010	5/28/2010	
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	85.9 J	119 J	U	U	U	173 J	U	1000
Manganese	37.0	31.5	26.0	24.7	24.9	23.8	22.2	1000
<i>pH (S.U.)</i>	7.25	7.17	7.23	7.09	7.18	7.18	7.23	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)

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
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	<i>PID Reading</i>	<i>PID Reading</i>	<i>PID Reading</i>	<i>PID Reading</i>
3/4/2010	0.0	0.0	0.0	0.0
3/11/2010	0.0	0.0	0.0	0.0
3/18/2010	0.0	0.0	0.0	0.0
3/26/2010	6.6	5.4	2.7	2.7
4/1/2010	0.0	0.0	0.0	0.0
4/8/2010	0.8	1.1	1.1	1.4
4/15/2010	1.3	1.3	1.3	1.2
4/22/2010	0.0	0.0	0.0	0.0
4/30/2010	0.0	0.0	0.0	0.0
5/6/2010	0.8	0.6	0.2	0.2
5/13/2010	2.2	2.2	2.4	2.5
5/20/2010	1.1	1.2	1.2	1.6
5/28/2010	1.0	1.0	1.0	1.5

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 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)
9/5/2007	40.0	14	6.3	53	< 0.5	93.07	4.48E-04	112	29.83
9/21/2007	39.0	9 J	6.3	51	< 0.5	99.06	3.37E-04	359	29.95
10/21/2007	38.4	10	6.1	59	< 0.5	99.18	3.73E-04	484	30.13
10/31/2007	39.9	14	5.9	73	< 0.5	99.40	4.95E-04	233	30.25
11/12/2007	39.4	15 B	5.7	80 B	< 0.5	99.46	5.24E-04	289	30.40
11/26/2007	38.5	13	6.0	64	< 0.5	99.32	4.43E-04	407	30.58 ⁽¹⁾
12/10/2007	40.6	16	6.5	100	< 0.5	99.50	6.51E-04	217	30.72
12/27/2007	40.3	13	6.1	73	< 0.5	99.37	4.85E-04	348	30.89
1/7/2008	40.4	12	6.7	75	< 0.5	99.32	4.94E-04	265	31.02
1/21/2008	38.3	14	6.3	86	< 0.5	99.42	5.40E-04	327	31.20
2/7/2008	40.7	15	6.3	81	< 0.5	99.44	5.61E-04	379	31.41
2/19/2008	39.0	16	6.5	90	< 0.5	99.46	6.05E-04	524	31.73 ⁽¹⁾
3/3/2008	40.1	20	5.9	100	< 0.5	99.58	6.97E-04	60	31.77
3/17/2008	40.5	16	6.2	100	< 0.5	99.51	6.35E-04	317	31.97
4/2/2008	39.8	17	6.2	100	< 0.5	99.52	6.49E-04	374	32.21
4/18/2008	38.9	16	6.5	86	< 0.5	99.45	5.92E-04	371	32.43
5/1/2008	38.3	19	6.4	89	< 0.5	99.51	6.50E-04	280	32.62
5/13/2008	40.9	17	6.4	95	< 0.5	99.51	6.53E-04	716	33.08 ⁽¹⁾
6/5/2008	38.6	20	6.5	100	< 0.5	99.54	7.12E-04	110	33.16
6/23/2008	39.9	24	5.9	130	< 0.5	99.66	8.64E-04	247	33.37
7/10/2008	39.8	12	6.0	64	< 0.5	99.31	4.30E-04	394	33.54
7/25/2008	39.6	14	6.0	71	< 0.5	99.39	4.91E-04	327	33.70
8/7/2008	40.2	14	5.9	66	< 0.5	99.38	4.77E-04	279	33.84
8/21/2008	40.3	13	6.0	61	< 0.5	99.33	4.46E-04	510	34.06 ⁽¹⁾
9/5/2008	39.0	13	6.0	60	< 0.5	99.31	4.34E-04	110	34.11
9/19/2008	39.6	15	6.1	82	< 0.5	99.44	5.48E-04	327	34.29
10/3/2008	40.1	12	6.1	51	< 0.5	99.23	3.97E-04	338	34.43
10/16/2008	39.0	11	6.2	64	< 0.5	99.25	4.14E-04	311	34.55
10/30/2008	39.5	12	5.8	45	< 0.5	99.21	3.68E-04	248	34.65
11/12/2008	39.8	12	6.0	64	< 0.5	99.30	4.31E-04	312	34.78
11/25/2008	39.9	16	6.1	80	< 0.5	99.46	5.64E-04	430	35.02 ⁽¹⁾
12/9/2008	39.7	16	6.2	78	< 0.5	99.45	5.60E-04	207	35.14
12/24/2008	40.4	13	6.4	57	< 0.5	99.28	4.46E-04	300	35.27
1/8/2009	39.9	12	6.1	53	< 0.5	99.24	4.02E-04	361	35.42
1/19/2009	40.3	14	6.1	61	< 0.5	99.35	4.69E-04	269	35.54
2/2/2009	40.3	12	6.1	56	< 0.5	99.26	4.13E-04	323	35.68
2/26/2009	39.1	16	5.6	69	< 0.5	99.45	5.07E-04	581	35.97 ⁽¹⁾
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
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

NOTES:

- Estimated through the end of the reporting period.
- Performance results for the reporting period are shaded.
- 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)

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:	2531-03	
Sample Date(s):	March 4, 2010	
Matrix/Number of Samples:	<u>Water/ 3</u> <u>Trip Blank/0</u>	
Analyzing Laboratory:	TestAmerica Laboratories, Shelton, CT	
Analyses:	<u>Volatile Organic Compounds (VOCs): USEPA SW846 Method 8260B</u> <u>Metals: Iron and manganese by USEPA SW846 Method 6010B</u>	
Laboratory Report No:	220-11604	Date:3/12/2010

ORGANIC ANALYSES VOCS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
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

%D - percent difference
%RSD - percent relative standard deviation

RRF - relative response factor
RPD - relative percent difference

Comments:

Performance was acceptable with the following exceptions:

- Based on laboratory qualifiers, acetone was detected in the method blank. Acetone was qualified as non-detect (U) in all samples.
- Based on laboratory qualifiers, the %R was outside the QC limit for acetone in the LCS associated with all samples. It was not detected in the samples and therefore did not impact the usability of the reported sample result.

INORGANIC ANALYSES METALS

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Preparation and calibration blanks					X
B. Field blanks					X
3. Field duplicates RPD					X

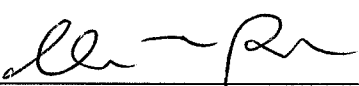
%R - percent recovery

%D - percent difference

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 4/27/2010
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name: Franklin Cleaners aka Hempstead

Project Number: 2531-03

Sample Date(s): March 18, 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): USEPA SW846 Method 8260B
Metals: Iron and manganese by USEPA SW846 Method 6010

Laboratory Report No: 220-11738

Date: 3/30/2010

ORGANIC ANALYSES

VOCs

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
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

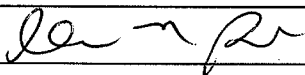
	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					X
3. Laboratory Control Sample (LCS) %R		X		X	
4. Field duplicates RPD					X

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 7/8/2010
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name: Franklin Cleaners aka Hempstead

Project Number: 2531-03

Sample Date(s): April 1, 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): USEPA SW846 Method 8260B
Metals: Iron and manganese by USEPA SW846 Method 6010

Laboratory Report No: 220-11845

Date: 4/13/2010

ORGANIC ANALYSES

VOCs

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
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:

- Based on laboratory qualifiers, the %R was outside the QC limit for dibromochloromethane and bromoform in the LCS associated with all samples. It was not detected in the samples and therefore did not impact the usability of the reported sample result.

INORGANIC ANALYSES

Metals

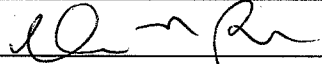
	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					X
3. Laboratory Control Sample (LCS) %R		X		X	
4. Field duplicates RPD					X

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 7/8/2010
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners aka Hempstead	
Project Number:	2531-03	
Sample Date(s):	April 15, 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): USEPA SW846 Method 8260B Metals: Iron and manganese by USEPA SW846 Method 6010	
Laboratory Report No:	220-11962	Date: 4/28/2010

ORGANIC ANALYSES

VOCs

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
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:

- Based on laboratory qualifiers, the %R was outside the QC limit for methyl acetate in the LCS associated with all samples. It was not detected in the samples and therefore did not impact the usability of the reported sample result.

INORGANIC ANALYSES

Metals

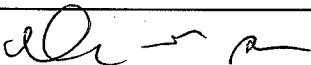
	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					X
3. Laboratory Control Sample (LCS) %R		X		X	
4. Field duplicates RPD					X

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 7/8/2010
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners aka Hempstead		
Project Number:	2531-03		
Sample Date(s):	April 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): USEPA SW846 Method 8260B Metals: Iron and manganese by USEPA SW846 Method 6010		
Laboratory Report No:	220-12095	Date:	5/11/2010

ORGANIC ANALYSES

VOCs

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
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

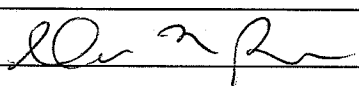
	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					X
3. Laboratory Control Sample (LCS) %R		X		X	
4. Field duplicates RPD					X

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 7/8/2010
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners aka Hempstead		
Project Number:	2531-03		
Sample Date(s):	May 13, 2010		
Matrix/Number of Samples:	Water/ 3 (EW-1, EW-2 and AS) Trip Blank/0		
Analyzing Laboratory:	TestAmerica Laboratories, Shelton, CT		
Analyses:	<u>Volatile Organic Compounds (VOCs):</u> 40 CFR Part 136 method 624 <u>Metals:</u> Iron and manganese by USEPA SW846 Method 6010B		
Laboratory Report No:	220-12202	Date:	05/27/2010

ORGANIC ANALYSES

VOCs

	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
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

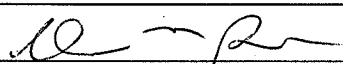
	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Field blanks					X
3. Laboratory Control Sample (LCS) %R		X		X	
4. Field duplicates RPD					X

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 11/16/2010
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners aka Hempstead		
Project Number:	2531-03		
Sample Date(s):	May 28, 2010		
Matrix/Number of Samples:	Water/ 3 (EW-1, EW-2 and AS) Trip Blank/0		
Analyzing Laboratory:	TestAmerica Laboratories, Shelton, CT		
Analyses:	<u>Volatile Organic Compounds (VOCs):</u> 40 CFR Part 136 method 624 <u>Metals:</u> Iron and manganese by USEPA SW846 Method 6010B		
Laboratory Report No:	220-12355	Date:	06/16/2010

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		X	
4. Field duplicates RPD					X

%R - percent recovery

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 11/16/2010
VALIDATION PERFORMED BY SIGNATURE:	