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September 15, 2011

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. 22
D&B No. 2531

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 December 1, 2009 through February 28, 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 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. 1. In addition, a Site Management Plan (SMP) for the off-site Franklin Cleaners groundwater extraction and treatment system is currently being drafted.

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

Groundwater Extraction and Treatment System Operation and Maintenance

During this period, extraction well EW-1 operated at an average pumping rate of 35 gallons per minute (gpm) and extraction well EW-2 operated at an average pumping rate of 5.5 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 rates for EW-1 and EW-2 have decreased as compared to Quarter 21 and continue to exhibit an overall slightly decreasing trend.

Approximately 0.79 pounds of tetrachloroethene (PCE) were removed from the extracted groundwater by the treatment system during this reporting period and approximately 39.26 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 7,075,154 gallons of treated groundwater has 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 4,776,396 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 the last quarterly report, 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 and EW-2 flow meters were intermittently registering a flow of 0.0 gpm. In an effort to repair the total flow inconsistencies, EAR replaced the influent flow sensors for EW-1 and EW-2 on January 21, 2010; however, as evidenced by the inconsistent total flow measurements observed this reporting period, further diagnosis of this condition is warranted.

During this reporting period, the groundwater extraction and treatment system was operative for a total of approximately 2,051 hours and inoperative for a total of approximately 109 hours due to system alarm conditions and routine system maintenance.

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

- Extraction well EW-1 and EW-2 malfunction (one event); and
- High-high wet well condition (two events).

Routine maintenance performed during this reporting period included the following:

- Blower maintenance conducted on December 11, 2009; and

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

- Air stripper maintenance conducted on January 28 and February 2, 2010. The air stripper maintenance consisted of disassembly of the air stripper trays and pressure washing of the trays on the containment island in order to remove accumulated iron flocculant.

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

- Repair of a leak in the treatment system roof conducted on January 8, 2010;
- Maintenance of the containment island conducted on January 8, 12 and 13, 2010.
- Maintenance and repair of the pressure washer conducted on January 8, 12, 13 and 28, 2010;
- Replacement of EW-1 and EW-2 influent flow sensors conducted on January 21, 2010; and
- Replacement of pressure washer circuit breaker conducted on February 1, 2010.

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 D&B from December 2009 through January 5, 2010 and EAR from January 5 through February 28, 2010, are provided in Attachment D. A summary of 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. Each sample was analyzed for volatile organic compounds (VOCs) utilizing United States Environmental Protection Agency (USEPA) Method OLMO4.2 or SW846 Method 8620. In addition, the samples collected from the air stripper discharge sample tap were analyzed for iron and manganese utilizing USEPA Method SW846 6010 and for pH utilizing USEPA Method SW846 9040.

The analytical results of samples collected from the 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 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.

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

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 from 12.0 ug/l detected on December 8, 2009 and February 5, 2010, to a maximum of 15.0 ug/l detected on February 19, 2010. Extraction well EW-2 exhibited concentrations of PCE above its NYSDEC Class GA Standard of 5.0 ug/l in groundwater ranging from 47.0 ug/l detected on February 5, 2010, to a maximum of 62.0 ug/l detected on January 21, 2010. Based on the maximum concentrations detected and extraction well flow rates for EW-1 (31.4 gpm) and EW-2 (5.3 gpm), extraction well pump EW-1 is removing PCE at a rate of 2.36×10^{-4} pounds per hour (lb/hr) and extraction well pump EW-2 is removing PCE at a rate of 1.65×10^{-4} lb/hr.

The discharge sample results for the period exhibited VOCs and metals concentrations below the effluent limitations. System effluent water exhibited laboratory analyzed pH values of 6.1 and 6.2 detected on December 8, 2009 and January 4, 2010, slightly below the effluent limit range of 6.5 to 8.5. The NYSDEC was notified of the exceedances via e-mail correspondence. Note that field analysis of pH values identified a pH value of 6.27 in treatment system effluent water on December 8, 2009, which was also below the effluent limit range. However, a field analysis of pH identified a value of 6.86 in treatment system effluent water on January 4, 2010, which was within the effluent limit range.

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

Vapor phase samples were also 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 0.0 parts per million (ppm) for both the influent and effluent vapor samples at each carbon adsorption unit, with PID detections and exceedances of the site-specific effluent limit of 1.0 ppm as noted below:

January 14, 2010

- 0.1 ppm at the influent and 0.3 ppm at the effluent of Carbon Vessel No. 1; and
- 0.3 ppm at the influent and 0.2 ppm at the effluent of Carbon Vessel No. 2.

February 5, 2010

- 2.9 ppm at the influent and 0.9 ppm at the effluent of Carbon Vessel No. 1; and
- 1.7 ppm at the influent and 1.5 ppm at the effluent of Carbon Vessel No. 2.

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

February 19, 2010

- 5.2 ppm at the influent and 4.3 ppm at the effluent of Carbon Vessel No. 2.

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 4.00×10^{-4} lb/hr and given an average blower flow rate of 630 cubic feet per minute (ft^3/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

The samples collected in December and on January 4, 2010 have been analyzed by Mitkem Corporation (Mitkem). The samples collected on January 21, 2010 and February 2010 have been analyzed by Test America Laboratories (TAL), Shelton, CT. The data packages submitted by Mitkem and 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, as qualified below:

- Manganese was qualified as non-detect (U) in AS-1 on January 4, 2010 based on preparation blank results;
- VOCs were detected in continuing calibration above QC limits in January 21 and February 25, 2010 sampling events. These VOCs were qualified as estimated (UJ); and
- The samples were analyzed within the method-specific holding times and all QA/QC requirements (except noted above) were met.

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:

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

- 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 40.5 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.
- 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.
- 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 discharge samples collected continue to intermittently exhibit a pH below the site specific effluent range of 6.5 to 8.5.
- The PID readings collected from the carbon vessel sample taps intermittently exhibit total VOCs greater than the site specific effluent limit of 1.0 ppm.
- Based on the influent mass loading rate and the blower air flow rate, the carbon vessels are currently being loaded at a rate of approximately 4.00×10^{-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, well below the PID screening concentrations noted throughout this reporting period.
- 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 and replace or repair the meters as necessary.
- It is recommended that the NYSDEC call-out contractor diagnose the recurring high-high wet well conditions.

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

Page 7

- Due to low analytical laboratory 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.
- 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(t)/j

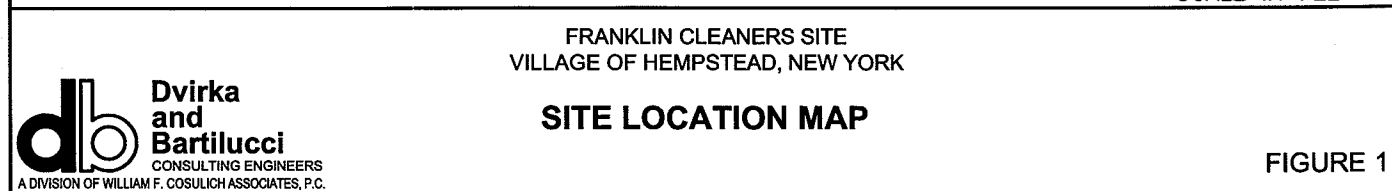
Attachments

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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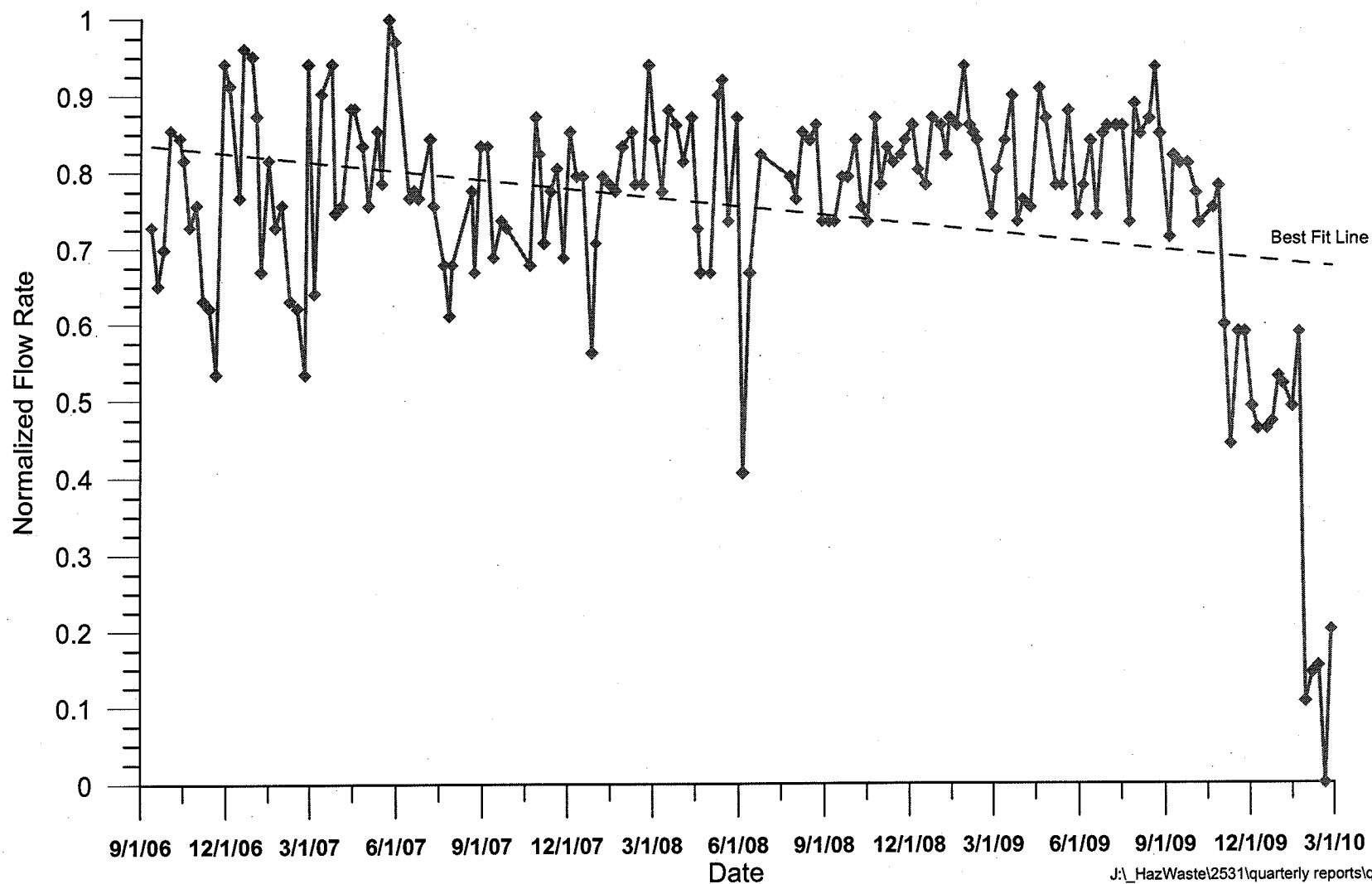
ATTACHMENT A

FIGURES

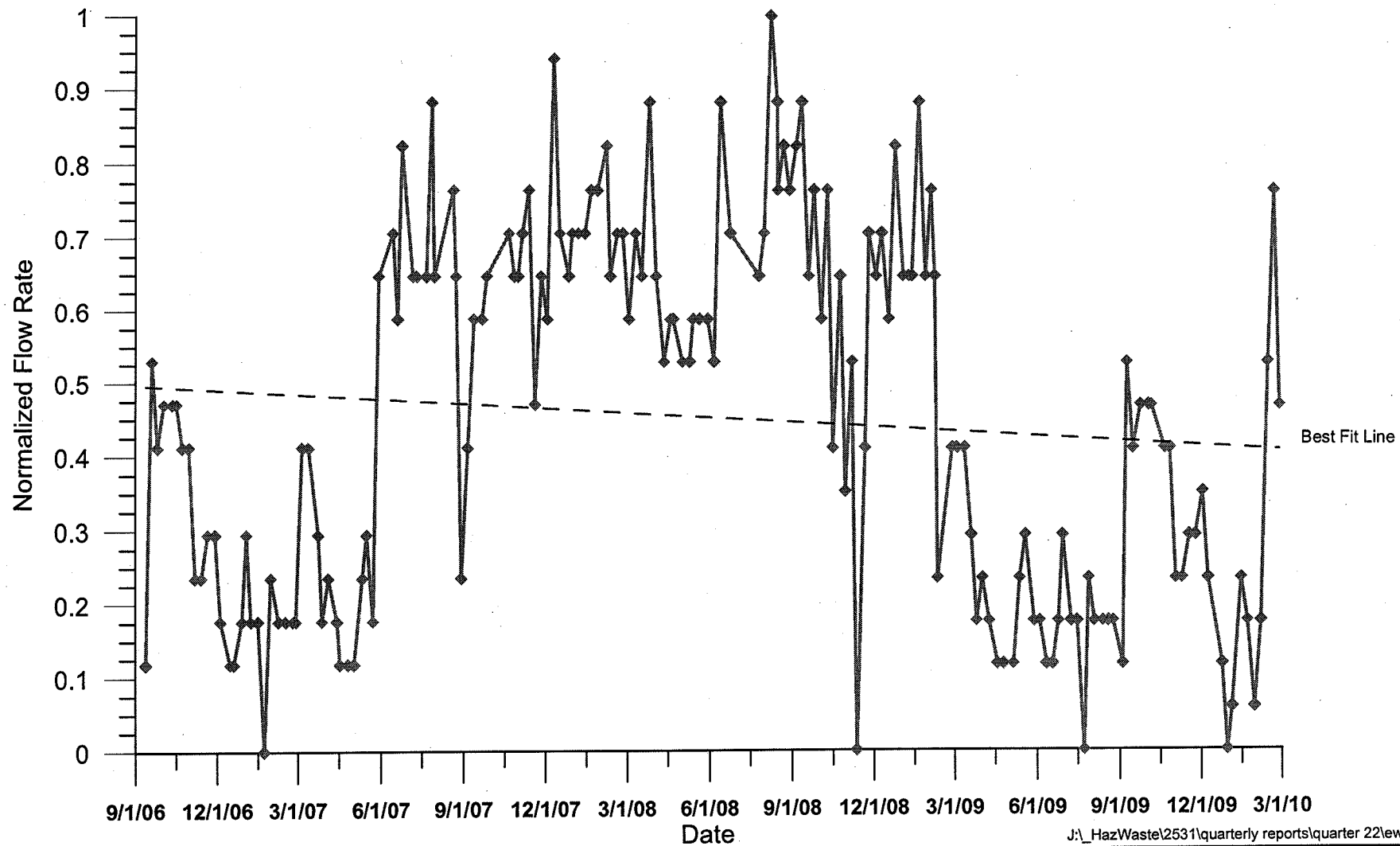


ATTACHMENT B

**NORMALIZED EXTRACTION WELL
FLOW RATE GRAPHS**

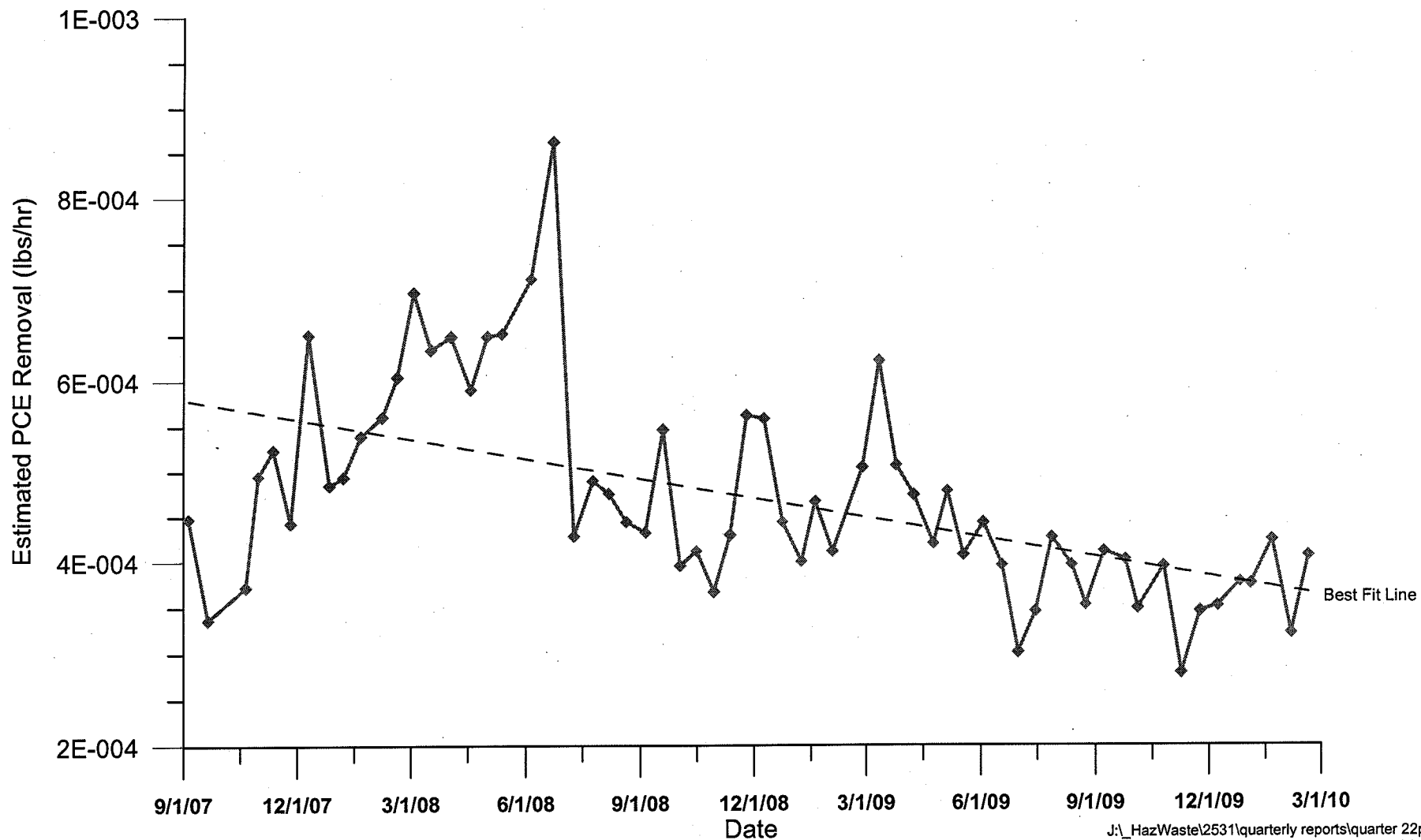


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ATTACHMENT C

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)	
DT, KS + KH	1/5/10 1230	1500	<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: Site work w/ NYSDEC + D+B.				
BC / GW	1/8/10 0930	1400	<input type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Maintenance
			<input type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	
Description: Repair leak in roof - Check operations + maintenance on pressure washer + containment island. Set up water supply to clean station + power washer.				
BC / GW	1/12/10 0830	1345	<input type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Maintenance
BC / GW	1/13/10 0845	1345	<input type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	
Description: Continue maintenance of power washer + containment island.				

**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	1/14/10 @ 0800	1400	<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: KS- Conducted site ck w/Dt B Tech KH- Located ASHw#5, Hand dug for access + visibility. Painted lid white, labeled, marked for location during construction of parking area. Re-Bolted. Unable to locate ASHw-4,				
KH	1/21/10 @ 1030	1500	<input checked="" type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Maintenance
KS	1/21/10 @ 1105	1500	<input checked="" type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	
Description: KH- Replace 2 GF Signal Flow Sensors, Located ASHw#4- Hand dug, set manhole level, marked w/white paint (ASHw- 4.6+7) KS- Conducted site check, sampled system (Bi-weekly sampling)				
KH, BC, CT	1/28/10 900	1600	<input type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Maintenance
			<input type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	
Description: Tailgate Safety Meeting Power Washer Maintenance Replaced fitting inside pump Turn off system @ 930 Discussed RPPing and top of tree. Elect system diserte to troubleshooting circuit breaker				

**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	1/29/10 0920	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: KS - Weekly site check / no samples collected.				
KH, PL	2-1-10 0900	1145	<input type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Maintenance
			<input type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	
Description: Replaced circuit breaker, tested power washer				
KH, BC, GT	2-2-2010 0900	1715	<input type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Maintenance
			<input type="checkbox"/> Sampling	<input type="checkbox"/> Other (Provide Description)
			<input type="checkbox"/> Alarm Response	
Description: Targate safety meeting Disassemble piping on air stripper Remove trays and power washed Replaced trays and tested d.s. 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	2/5/10 0915		<input 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 System Sampling. Monitor pH.				
KS	2/12/10 0920	1130	<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: Normal site check. EW-2 Flow sensor primed upon arrival. Called PM to report. Flow sensor operating normal upon departure.				
KS	2/19/10 0815	1030	<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: Normal weekly site check, collected samples from EW1, EW2 + AS. Monitor pH from EW1, EW2, AS + WW. Flow sensor EW-2 not working on arrival. Working normal on departure.				

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

PERSONNEL ON-SITE	DATE/TIME ON-SITE	TIME OFF-SITE	REASON FOR SITE VISIT (CHECK BOX BELOW)	
KS, RH + PL	2/24/10 10:00	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 + RH	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: CONTINUOUS GWS + purge through system. Site check.				

FRANKLIN CLEANERS SITE, NYSDEC SITE No. 1-30-050

SYSTEM DATA SHEET

DATE	11/2/09	11/9/09	11/17/09	11/24/09	12/2/09	12/8/09
TIME	12:00	0850	0830	0755	7:40	7:00
EW-1						
Flow Rate (gpm)	37.6	36.0	37.5	37.5	36.5	36.2
Total Flow (gal)	95646.96 @ 12:15	96005.65 @ 09:58	96419.38 @ 08:41	96746.88 @ 08:45	97149.66 @ 07:54	97450.62 @ 08:09
Pump Runtime (hrs)	42540.89 @ 12:12	42706.29 @ 09:36	42871.33 @ 08:38	43048.51 @ 08:43	43235.04 @ 07:51	43375.47 @ 08:07
Routine Sampling Performed	No	Yes	No	Yes	No	Yes
Bicycle Pump Pressure Reading (psi)	15	16	16	16	16	16.5
Operating Frequency (Hz)	80	80	80	80	80	80
EW-2						
Flow Rate (gpm)	5.4	5.4	5.5	5.5	5.6	5.4
Total Flow (gal)	162734.95 @ 12:16	103277.40 @ 09:38	103900.00 @ 08:42	104371.07 @ 08:46	104982.51 @ 07:55	105442.64 @ 08:10
Pump Runtime (hrs)	23340.82 @ 12:12	24006.23 @ 09:37	24197.26 @ 08:38	24348.44 @ 08:43	24534.97 @ 07:51	24675.40 @ 08:07
Routine Sampling Performed	No	Yes	No	Yes	No	Yes
Bicycle Pump Pressure Reading (psi)	15	15	15	15	15	13
Operating Frequency (Hz)	60	60	60	60	60	60
Air Stripper						
Sump Level (in)	6	6	6	6	6	6
Fresh Air Inlet Vacuum (in H ₂ O)	1.5	1.5	1.5	1.5	1.5	1.5
Blower Suction (in H ₂ O)	21	21	21	21	20.5	21
Blower Discharge (in H ₂ O)	24	24	23	24	24	24
Blower Runtime (hrs)	31403.65 @ 12:13	31569.06 @ 09:37	31760.09 @ 08:39	31911.35 @ 08:41	32098.08 @ 07:52	32238.54 @ 08:08
Routine Sampling Performed	No	Yes	No	Yes	No	Yes
Vapor Phase Carbon						
Lead/Lag Unit						
Lead pressure Inlet/Outlet (psi)	24 / 19	24 / 19	23 / 19	24 / 19	24 / 19	24 / 19
Lead Total VOC Conc. Inlet/Outlet (ppm)	0.1 / 0.1	- / -	- / -	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
Lag pressure Inlet/Outlet (psi)	9.5 / 6.5	9.5 / 6.5	9.5 / 6.5	9.5 / 6.5	9.5 / 6.5	9.5 / 6.5
Lag Total VOC Conc. Inlet/Outlet (ppm)	0.2 / 0.2	- / -	- / -	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
Exhaust Flow Rate (scfm)	630	630	630	630	630	630
Exhaust Temperature (°F)	82	82	82	81	80	78
Wet Well						
Pump No. 1 Runtime (hrs)	14281.7	14360.8	14452.9	14526.4	14617.0	14685.5
Pump No. 2 Runtime (hrs)	14255.8	14314.2	14381.6	14434.9	14500.9	14550.5
Valve Vault						
Pump No. 1 Operating Pressure (psi)	9.2	9.4	9	9.2	9.1	9.2
Discharge Line No. 2 Back Pressure (psi)	-	-	-	-	-	-
Pump No. 1 Flow Rate (gpm)	68	72	68	72	68	68
Pump No. 2 Operating Pressure (psi)	9.9	10	9.7	9.8	9.8	9.7
Discharge Line No. 1 Back Pressure (psi)	-	-	-	-	-	-
Pump No. 2 Flow Rate (gpm)	70	72	70	71	70	72
Flow Meter Vault						
Total Flow (gal.)	25660775	26225749	26880416	27401169	28045270	28531881
Jet Pump						
Status	off	off	off	off	off	off
Line Pressure (psi)	59.5	59.5	60	59.5	59.5	59

FRANKLIN CLEANERS SITE, NYSDEC SITE No. 1-30-050

SYSTEM DATA SHEET

DATE	12/18/09	12/24/09	12/30/09	1/4/10		
TIME	1415	7:00	8:20	9:10		

EW-1

Flow Rate (gpm)	36.2	36.3	36.9	36.8		
Total Flow (gal)	97913226	98111360 7:50	98422019 8:29	98661416 10:05		
Pump Runtime (hrs)	4359.019	43682.86 7:47	43827.5 10:26	43938.85 10:02		
Routine Sampling Performed	NO	Yes	No	Yes		
Bicycle Pump Pressure Reading (psi)	1000 15	* —	* —	* —		
Operating Frequency (Hz)	80	80	80	80		

EW-2

Flow Rate (gpm)	—	5.2	5.0	5.1		
Total Flow (gal)	10606249	10631200 7:50	10675009 8:30	10708891 10:05		
Pump Runtime (hrs)	24890.62	24982.79 7:47	25127.45 8:26	25238.79 10:03		
Routine Sampling Performed	NO	Yes	No	Yes		
Bicycle Pump Pressure Reading (psi)	1000 12	* —	* —	* —		
Operating Frequency (Hz)	60	60	60	60		

Air Stripper

Sump Level (in)	6	6	6	6		
Fresh Air Inlet Vacuum (in H ₂ O)	1.5	1.0	1.5	1.5		
Blower Suction (in H ₂ O)	21	21	21	21		
Blower Discharge (in H ₂ O)	24	24	24.5	23.5		
Blower Runtime (hrs)	3245397	32546.22 7:48	32670.87 8:27	32802.29 10:03		
Routine Sampling Performed	NO	Yes	No	Yes		

Vapor Phase Carbon

Lead/Lag Unit	1/2					
Lead pressure Inlet/Outlet (psi)	24 24/14.5	24 / 14.5	24.5 / 19	23.5 / 19		
Lead Total VOC Conc. Inlet/Outlet (ppm)	—	—	0.0 / 0.0	0.0 / 0.0		
Lag pressure Inlet/Outlet (psi)	9.8 / 7.0	9.5 / 6.5	9.5 / 6.5	9.5 / 6.5		
Lag Total VOC Conc. Inlet/Outlet (ppm)	—	—	0.0 / 0.0	0.0 / 0.0		
Exhaust Flow Rate (scfm)	620	630	628	620		
Exhaust Temperature (°F)	58	82	82	80		

Wet Well

Pump No. 1 Runtime (hrs)	147912	148364	149077	149626		
Pump No. 2 Runtime (hrs)	146268	146595	147110	147526		

Valve Vault

Pump No. 1 Operating Pressure (psi)	9.2	9.2	9.2	9.2		
Discharge Line No. 2 Back Pressure (psi)	—	—	—	—		
Pump No. 1 Flow Rate (gpm)	70	69	67	67		
Pump No. 2 Operating Pressure (psi)	9.5	9.5	9.6	9.7		
Discharge Line No. 1 Back Pressure (psi)	—	—	—	—		
Pump No. 2 Flow Rate (gpm)	70	70	70	70		

Flow Meter Vault

Total Flow (gal.)	229277550	229597083	30098485	30483512		
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Jet Pump

Status	off	off	off	off		
Line Pressure (psi)	60	60	60	60		

* Bicycle pump
not tested
due to icy
conditions

* Could not access
Extraction well
panel frozen

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

DATE	1/14/10 KS	1/21/10 KS	1/29/10 KS	2/5/10 KS	2/12/10 KS
TIME	0839	1108	0920	0915	0920
EW-1					
Flow Rate (gpm)	36.5	37.5	32.5	32.9	33.0
Total Flow (gal)	99183199@0841	995608670@1108	99915370(0923)	00227783(0957)	00558999@0943
Influent pH (grab sample field reading)	8.91	6.81	6.87	5.57	5.99 @ 1001
VFD Operating Frequency (Hz)	80.0	80.0	80.0 (0922)	80.0 (0956)	80.0 @ 0942
Pump Runtime (hrs @ time)	441766@0839	4434733@1120	4452990(0920)	4469026(0954)	4485803@0941
Bicycle Pump Pressure Reading (psi)	16	14	—	—	—
Water Column Above Pump (ft H ₂ O)(psi x 2.31)	36.96	32.34	—	—	—
Routine Sampling Performed (YES/NO)	NO	YES @ 1230	NO	YES @ 1049	NO
EW-2					
Flow Rate (gpm)	5.4	5.3	5.1	5.3	5.9 @ 0957
Total Flow (gal)	16781282@0841	16832616@1128	10862371(0924)	10913529(0957)	10967042@0944
Influent pH (grab sample field reading)	8.86	6.62	6.52	5.31	5.97 @ 1015
VFD Operating Frequency (Hz)	60.0	60.0	60.0 (0922)	60.0 (0956)	60.0
Pump Runtime (hrs @ time)	2547654@0840	254726@1120	2582992(0920)	2599018(0954)	2615795@0941
Bicycle Pump Pressure Reading (psi)	14	17	—	—	—
Water Column Above Pump (ft H ₂ O)(psi x 2.31)	32.34	39.27	—	—	—
Routine Sampling Performed (YES/NO)	NO	YES @ 1230	NO	YES @ 1058	NO
Air Stripper					
Sump Level (inches)	6"	6"	6" (0924)	6"	6
Effluent pH (grab sample field reading)	9.19	7.46	7.42	6.41	7.36 @ 1028
Fresh Air Inlet Vacuum (in H ₂ O)	1.5	2	1.5	1.5	1.5
Blower Suction (in H ₂ O)	21	21	21	21	21.5
Blower Discharge (in H ₂ O)	25	24	26	26	24
Blower Runtime (hrs @ time)	3304002@0841	3321077@1120	3339344(0920)	3355391(0955)	3372160@0941
Routine Sampling Performed (YES/NO)	NO	YES @ 1250	NO	YES @ 1118	NO

FRANKLIN CLEANERS SITE, NYSDEC SITE No. 1-30-050

SYSTEM MONITORING LOG

DATE	1/14/10 KS	1/21/10 KS	1/29/10 KS	2/5/10 KS	2/12/10 KS
TIME	0839	1120	0920	0915	0920
Vapor Phase Carbon					
Lead/Lag Unit					
Lead pressure Inlet/Outlet (psi)	25 / 19	24 / 19	26 / 19	26 / 20	24 / 19
Lead Total VOC Conc. Inlet/Outlet (ppm)	0.6 / 0.3	0.0 / 0.0	0.0 / 0.0	2.9 / 0.9 SCENOT	0.0 / 0.0
Lag pressure Inlet/Outlet (psi)	9.5 / 6.5	9 / 6	9 / 7	9 / 8	8 / 6
Lag Total VOC Conc. Inlet/Outlet (ppm)	0.3 / 0.2	0.0 / 0.0	0.0 / 0.0	1.7 / 1.5 SCENOT	0.0 / 0.0
Exhaust Flow Rate (scfm)	630	620	620	620	620
Exhaust Temperature (°F)	80°	80°	80°	81°	80°
Wet Well					
Pump No. 1 Runtime (hrs)	15 0804 @ 0843	15 1654 @ 1120	15 2566 (0921)	15 3369 (0955)	15 4215 @ 0941
Pump No. 2 Runtime (hrs)	14 8337 @ 0843	14 8968 @ 1126	14 9609 (0921)	15 0178 (0955)	15 0772 @ 0941
Wet Well pH (grab sample field reading)	9.19	7.47	7.71	7.68	7.49
Valve Vault					
Pump No. 1 Operating Pressure (psi)	9.2	9	9	10	9
Pump No. 1 Flow Rate (gpm)	68	74	68	66	65
Pump No. 2 Operating Pressure (psi)	9.6	10	10	11	9
Pump No. 2 Flow Rate (gpm)	74	68	70	72	70
Flow Meter Vault					
Total Flow (gallons @ time)	3131114 @ 0915	31905544 @ 1148	32543354 @ 0953	33103574 @ 1031	33690550 @ 1024
Jet Pump					
Line Pressure (psi)	60 mat	60 max	-0	-0	-0

COMMENTS

PID-11

PH - P-95 YSi (1/14/10)

PID-14

PH - YSi 02 (1/21/10)

PID-11

Ysi 02 (1/29/10)

PID-11, YSi R.97 - AFTER TAKING LEAD + LAG VOC'S, RECALIBRATED PID-11 - NEW readings. LEAD IN - 0.3 LAG IN - 0.6
LEAD OUT - 0.4 LAG OUT - 0.3

No Bike pump readings AS per PM 2/5/10

2/12/10 - EW-2 NOT RUNNING ON ARRIVAL - CALLED PM TO REPORT - FLOW SENSOR WHEEL PINNED. WORKING UPON
DEPARTURE - YSF02, PID-11

**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		
TIME	0815	1220	1100		
EW-1					
Flow Rate (gpm)	31.4	33.5	34.4		
Total Flow (gal)	00881470@0850	01169118@1308	01494925@1107		
Influent pH (grab sample field reading)	7.86	5.52	6.62		
VFD Operating Frequency (Hz)	60.0	80.0	80.0		
Pump Runtime (hrs @ time)	4502440@0840	4517172@1305	4533779@1105		
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.		
EW-2					
Flow Rate (gpm)	6.3	5.8	5.8		
Total Flow (gal)	10980385@0850	11029477@1308	11030281@1108		
Influent pH (grab sample field reading)	8.09	5.35	7.70		
VFD Operating Frequency (Hz)	60.0	80.0	80.0		
Pump Runtime (hrs @ time)	2632420@0840	2647159@1305	2663769@1105		
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		
Air Stripper					
Sump Level (inches)	6.1 inch	6.1 inch	6.1 inch		
Effluent pH (grab sample field reading)	7.97	6.94	7.69		
Fresh Air Inlet Vacuum (in H ₂ O)	1.5	1.5	1.5		
Blower Suction (in H ₂ O)	21	21	21		
Blower Discharge (in H ₂ O)	24	24	24.5		
Blower Runtime (hrs @ time)	3388825@0840	3403574@1305	3420185@1105		
Routine Sampling Performed (YES/NO)	YES @ 0944	NO	YES @ 1211		

**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		
TIME	0815	1300	1100		
Vapor Phase Carbon					
Lead/Lag Unit					
Lead pressure Inlet/Outlet (psi)	24/19	24/19	24.5/19		
Lead Total VOC Conc. Inlet/Outlet (ppm)	0.0/0.0	0.0/0.0	0.0/0.0		
Lag pressure Inlet/Outlet (psi)	9/8	9/8	9/8		
Lag Total VOC Conc. Inlet/Outlet (ppm)	5.2/4.3	0.0/0.0	0.0/0.0		
Exhaust Flow Rate (scfm)	610	610	620		
Exhaust Temperature (°F)	80°	80°	81°		
Wet Well					
Pump No. 1 Runtime (hrs)	155044 @ 0840	155785 @ 1305	156632 @ 1106		
Pump No. 2 Runtime (hrs)	151376 @ 0840	151904 @ 1305	152494 @ 1106		
Wet Well pH (grab sample field reading)	7.10	6.65	7.79		
Valve Vault					
Pump No. 1 Operating Pressure (psi)	9	9	9		
Pump No. 1 Flow Rate (gpm)	65	67	65		
Pump No. 2 Operating Pressure (psi)	10	10	10		
Pump No. 2 Flow Rate (gpm)	68	70	70		
Flow Meter Vault					
Total Flow (gallons @ time)	342685 @ 0915	347767 @ 1320	353577 @ 1124		
Jet Pump					
Line Pressure (psi)	-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

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

SHUT-OFF DATE/TIME	RESTART DATE/TIME	CAUSE	ACTIONS TAKEN
12/3/09 @ 4:15	12/3/09 8:02	Alarm 2, 3, 5	EW-1 + EW-2 Fail Tripped breaker reset pumps Pump ww down Restarted system
12/9/09 @ 8:58	12/9/09 10:03	Alarm # 2 + 3	Wet Well High Level Tripped breaker Pumped ww down Restarted system
12/11/09 @ 10:28	12/11/09 11:03	Routine Maintenance	Blower Maintenance Restarted system
12/11/09 @ 11:10	12/11/09 11:14	No flow	EW-2 No flow - Restricted Removed + put back in Restarted system
12/17/09 @ 0900	12/18/09 1355	Ht Ht wet well	Turned pump back on, purge wet well, restart system
12/21/09 @ 09:36	12/23/09 07:20	Alarm #3 High wet well	Tripped breaker pumped down ww Restart system
1/2/09 @ 16:17	1/3/09 2:31 am	Alarm #3 Wet Well High-High Level	Tripped breaker pumped down ww Restart system

ATTACHMENT E

ROUTINE MAINTENANCE SCHEDULE

Maintenance Activities

Activity	12/1/2009	1/1/2010	2/1/2010	3/1/2010	4/1/2010	5/1/2010
	22nd Qtr	22nd Qtr	22nd Qtr	23rd Qtr	23rd Qtr	23rd Qtr
Blower Maintenance	12/11/2009					
Air Stripper Maintenance		1/28/2010 started	2/2/2010 completed			
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)	NYSDEC CLASS GA GROUNDWATER STANDARDS AND GUIDANCE VALUES
SAMPLE	WATER	WATER	WATER	WATER	WATER	WATER	
DATE OF	12/8/2009	12/26/2009	1/4/2010	1/21/2010	2/5/2010	2/19/2010	
COLLECTED	EAR	EAR	EAR	EAR	EAR	EAR	
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
VOCs							(ug/L)
Dichlorodifluoromethane	U	U	U	UJ	U	U	5 ST
Chloromethane	U	U	U	U	U	U	--
Vinyl chloride	U	U	U	U	U	U	2 ST
Bromomethane	U	U	U	UJ	U	U	5 ST
Chloroethane	U	U	U	U	U	U	5 ST
Trichlorofluoromethane	U	U	U	U	U	U	5 ST
1,1-Dichloroethene	U	U	U	U	U	U	5 ST
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	5 ST
Acetone	U	U	U	U	U	U	50 GV
Carbon disulfide	U	U	U	U	U	U	60 GV
Methyl acetate	U	U	U	U	U	U	--
Methylene chloride	U	U	U	U	U	U	5 ST
trans 1,2-Dichloroethene	U	U	U	U	U	U	5 ST
Methyl-tert butyl ether	U	U	U	0.19 J	U	U	10 GV
1,1-Dichloroethane	U	U	U	U	U	U	5 ST
cis-1,2-Dichloroethene	U	U	U	U	U	U	5 ST
2-Butanone	U	U	U	U	U	U	50 GV
Chloroform	U	U	U	U	U	U	7 ST
1,1,1-Trichloroethane	U	U	U	U	U	U	5 ST
Cyclohexane	U	U	U	U	U	U	--
Carbon tetrachloride	U	U	U	U	U	U	5 ST
Benzene	U	U	U	U	U	U	1 ST
1,2-Dichloroethane	U	U	U	U	U	U	0.6 ST
Trichloroethene	U	U	U	U	U	U	5 ST
Methylcyclohexane	U	U	U	U	U	U	--
1,2-Dichloropropane	U	U	U	U	U	U	1 ST
Bromodichloromethane	U	U	U	U	U	U	50 GV
cis-1,3-Dichloropropene	U	U	U	U	U	U	0.4 ST
4-Methyl-2-pentanone	U	U	U	U	U	U	--
Toluene	U	U	U	U	U	U	5 ST
trans-1,3-Dichloropropene	U	U	U	U	U	U	0.4 ST
1,1,2-Trichloroethane	U	U	U	U	U	U	1 ST
Tetrachloroethene	12	13	13	14	12	15	5 ST
2-Hexanone	U	U	U	U	U	U	50 GV
Dibromochloromethane	U	U	U	U	U	U	50 GV
1,2-Dibromoethane	U	U	U	U	U	U	5 ST
Chlorobenzene	U	U	U	U	U	U	5 ST
Ethylbenzene	U	U	U	U	U	U	5 ST
Xylene (total)	U	U	U	U	U	U	5 ST
Styrene	U	U	U	U	U	U	5 ST
Bromoform	U	U	U	U	U	U	50 GV
Isopropylbenzene	U	U	U	U	U	U	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	1.5 J	5 ST

NOTES:

Concentration exceeds

ABBREVIATIONS:

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)	NYSDEC CLASS GA GROUNDWATER
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	WATER	
DATE OF COLLECTION	12/8/2009	12/26/2009	1/4/2010	1/21/2010	2/5/2010	2/19/2010	
COLLECTED BY	EAR	EAR	EAR	EAR	EAR	EAR	
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
VOCs							
Dichlorodifluoromethane	U	U	U	UJ	U	U	5 ST
Chloromethane	U	U	U	U	U	U	--
Vinyl chloride	U	U	U	U	U	U	2 ST
Bromomethane	U	U	U	UJ	U	U	5 ST
Chloroethane	U	U	U	U	U	U	5 ST
Trichlorofluoromethane	U	U	U	U	U	U	5 ST
1,1-Dichloroethene	U	U	U	U	U	U	5 ST
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	5 ST
Acetone	U	U	U	U	U	U	50 GV
Carbon disulfide	U	U	U	U	U	U	60 GV
Methyl acetate	U	U	U	U	U	U	--
Methylene chloride	U	U	U	U	U	U	5 ST
trans 1,2-Dichloroethene	U	U	U	U	U	U	5 ST
Methyl-tert butyl ether	U	U	U	0.59 J	0.60 J	0.52 J	10 GV
1,1-Dichloroethane	U	U	U	U	U	U	5 ST
cis-1,2-Dichloroethane	U	U	U	U	U	U	5 ST
2-Butanone	U	U	U	U	U	U	50 GV
Chloroform	U	U	U	U	U	U	7 ST
1,1,1-Trichloroethane	U	U	U	U	U	U	5 ST
Cyclohexane	U	U	U	U	U	U	--
Carbon tetrachloride	U	U	U	U	U	U	5 ST
Benzene	U	U	U	U	U	U	1 ST
1,2-Dichloroethane	U	U	U	U	U	U	0.6 ST
Trichloroethene	U	U	U	U	U	U	5 ST
Methylcyclohexane	U	U	U	U	U	U	--
1,2-Dichloropropane	U	U	U	U	U	U	1 ST
Bromodichloromethane	U	U	U	U	U	U	50 GV
cis-1,3-Dichloropropene	U	U	U	U	U	U	0.4 ST
4-Methyl-2-pentanone	U	U	U	U	U	U	--
Toluene	U	U	U	U	U	U	5 ST
trans-1,3-Dichloropropene	U	U	U	U	U	U	0.4 ST
1,1,2-Trichloroethane	U	U	U	U	U	U	1 ST
Tetrachloroethene	50	55	54	62	47	55	5 ST
2-Hexanone	U	U	U	U	U	U	50 GV
Dibromochloromethane	U	U	U	U	U	U	50 GV
1,2-Dibromoethane	U	U	U	U	U	U	5 ST
Chlorobenzene	U	U	U	U	U	U	5 ST
Ethylbenzene	U	U	U	U	U	U	5 ST
Xylene (total)	U	U	U	U	U	U	5 ST
Styrene	U	U	U	U	U	U	5 ST
Bromoform	U	U	U	U	U	U	50 GV
Isopropylbenzene	U	U	U	U	U	U	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	5 ST

NOTES:

 Concentration exceeds

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)	EFFLUENT LIMITATIONS	NYSDEC CLASS GA GROUNDWATER
SAMPLE	WATER	WATER	WATER	WATER	WATER	WATER		
DATE OF	12/8/2009	12/28/2009	1/4/2010	1/21/2010	2/5/2010	2/19/2010		
COLLECTED	EAR	EAR	EAR	EAR	EAR	EAR		
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Dichlorodifluoromethane	U	U	U	UJ	U	U	--	5 ST
Chloromethane	U	U	U	U	U	U	--	--
Vinyl chloride	U	U	U	U	U	U	--	2 ST
Bromomethane	U	U	U	UJ	U	U	--	5 ST
Chloroethane	U	U	U	U	U	U	--	5 ST
Trichlorofluoromethane	U	U	U	U	U	U	--	5 ST
1,1-Dichloroethene	U	U	U	U	U	U	--	5 ST
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	--	5 ST
Acetone	U	U	U	U	U	U	--	50 GV
Carbon disulfide	U	U	U	U	U	U	--	60 GV
Methyl acetate	U	U	U	U	U	U	--	--
Methylene chloride	U	U	U	U	U	U	--	5 ST
trans 1,2-Dichloroethene	U	U	U	U	U	U	--	5 ST
Methyl-tert butyl ether	U	U	U	U	U	U	--	10 GV
1,1-Dichloroethane	U	U	U	U	U	U	10	5 ST
cis-1,2-Dichloroethene	U	U	U	U	U	U	10	5 ST
2-Butanone	U	U	U	U	U	U	--	50 GV
Chloroform	U	U	U	U	U	U	--	7 ST
1,1,1-Trichloroethane	U	U	U	U	U	U	10	5 ST
Cyclohexane	U	U	U	U	U	U	--	--
Carbon tetrachloride	U	U	U	U	U	U	--	5 ST
Benzene	U	U	U	U	U	U	--	1 ST
1,2-Dichloroethane	U	U	U	U	U	U	--	0.6 ST
Trichloroethene	U	U	U	U	U	U	10	5 ST
Methylcyclohexane	U	U	U	U	U	U	--	--
1,2-Dichloropropane	U	U	U	U	U	U	--	1 ST
Bromodichloromethane	U	U	U	U	U	U	--	50 GV
cis-1,3-Dichloropropene	U	U	U	U	U	U	--	0.4 ST
4-Methyl-2-pentanone	U	U	U	U	U	U	--	--
Toluene	U	U	U	U	U	U	--	5 ST
trans-1,3-Dichloropropene	U	U	U	U	U	U	--	0.4 ST
1,1,2-Trichloroethane	U	U	U	U	U	U	--	1 ST
Tetrachloroethene	U	U	U	U	U	0.82 J	5	5 ST
2-Hexanone	U	U	U	U	U	U	--	50 GV
Dibromochloromethane	U	U	U	U	U	U	--	50 GV
1,2-Dibromoethane	U	U	U	U	U	U	--	5 ST
Chlorobenzene	U	U	U	U	U	U	--	5 ST
Ethylbenzene	U	U	U	U	U	U	--	5 ST
Xylene (total)	U	U	U	U	U	U	--	5 ST
Styrene	U	U	U	U	U	U	--	5 ST
Bromoform	U	U	U	U	U	U	--	50 GV
Isopropylbenzene	U	U	U	U	U	U	--	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	--	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	--	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	--	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	--	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	--	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	--	5 ST

NOTES:

 Concentration exceeds Site

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 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)	EFFLUENT LIMITATIONS
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	WATER	
DATE OF COLLECTION	12/8/2009	12/26/2009	1/4/2010	1/21/2010	2/5/2010	2/19/2010	
COLLECTED BY	EAR	EAR	EAR	EAR	EAR	EAR	
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
METALS							
Iron	52.1 B	86.6 B	U	U	417	U	1000
Manganese	28.9 B	30.2 B	U	27.3	118	25.6	1000
WET CHEMISTRY							
pH (S.U.) (lab reading)	6.1	7.0	6.2	7.2	7.5	7.4	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

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>
12/2/2009	0.0	0.0	0.0	0.0
12/8/2009	0.0	0.0	0.0	0.0
12/30/2009	0.0	0.0	0.0	0.0
1/4/2010	0.0	0.0	0.0	0.0
1/14/2010	0.1	0.3	0.3	0.2
1/21/2010	0.0	0.0	0.0	0.0
1/29/2010	0.0	0.0	0.0	0.0
2/5/2010	2.9	0.9	1.7	1.5
2/12/2010	0.0	0.0	0.0	0.0
2/19/2010	0.0	0.0	5.2	4.3
2/25/2010	0.0	0.0	0.0	0.0

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

NKLIN CLEANERS SITE
ACT No. D004446 / SITE No. 1-30-050
TMENT 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)	EFFLUENT (AS-1) PCE CONCENTRATION (ug/l)	PCE REMOVAL EFFICIENCY (%)	ESTIMATED AVERAGE PCE REMOVAL RATE ^(a) (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
12/27/2008	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	497	38.47 ⁽¹⁾
12/8/2009	36.2	12	5.4	50	< 0.5	99.23	3.53E-04	327	38.59
12/26/2009	36.3	13	5.2	55	< 0.5	99.31	3.60E-04	307	38.70
1/4/2010	36.8	13	5.1	54	< 0.5	99.32	3.77E-04	256	38.80
1/21/2010	37.5	14	5.3	62	< 0.5	99.38	4.27E-04	408	38.97
2/5/2010	32.9	12	5.3	47	< 0.5	99.18	3.22E-04	343	39.08
2/19/2010	31.4	15	6.3	55	0.82	98.74	4.09E-04	481	39.28

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 lb/hr: pounds per hour
 ug/L: micrograms per liter 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		
Project Number:	2531-03		
Sample Date(s):	December 8, 2009		
Matrix/Number of Samples:	<u>Water/ 3</u> <u>Trip Blank/0</u>		
Analyzing Laboratory:	Mitkem Laboratories, Warwick, RI		
Analyses:	<u>Volatile Organic Compounds (VOCs): OLM4.2</u> <u>Metals: Iron and manganese by USEPA SW846 Method 6010</u>		
Laboratory Report No:	SH2503	Date:	12/31/2009

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. Matrix spike (MS) %R					X
4. Matrix spike duplicate (MSD) %R					X
5. MS/MSD precision (RPD)					X
6. Laboratory Control Sample (LCS) %R		X		X	
7. LCS duplicate (LCSD) %R					X
8. LCS/LCSD precision (RPD)					X
9. Surrogate spike recoveries		X		X	
10. Instrument performance check		X		X	
11. Internal standard retention times and areas		X		X	
12. Initial calibration RRF's and %RSD's		X		X	
13. Continuing calibration RRF's and %D's		X		X	
14. 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.

INORGANIC ANALYSES METALS

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Preparation and calibration blanks		X		X	
B. Field blanks					X
3. Initial calibration verification %R		X		X	
4. Continuing calibration verification %R		X		X	
5. CRDL standard %R					X
6. Interference check sample %R		X		X	
7. Laboratory control sample %R		X		X	
8. Spike sample %R					X
9. Post digestive spike sample %R					X
10. Duplicate %RPD					X
11. Serial dilution check %D		X		X	
12. Field duplicates RPD					X

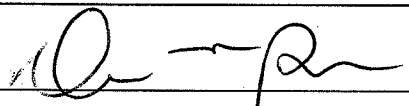
%R - percent recovery

%D - percent difference

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 2/9/2010
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners		
Project Number:	2531-03		
Sample Date(s):	December 24, 2009		
Matrix/Number of Samples:	<u>Water/ 3</u> <u>Trip Blank/0</u>		
Analyzing Laboratory:	Mitkem Laboratories, Warwick, RI		
Analyses:	<u>Volatile Organic Compounds (VOCs): OLM4.2</u> <u>Metals: Iron and manganese by USEPA SW846 Method 6010</u>		
Laboratory Report No:	SH2638	Date:	1/11/2010

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. Matrix spike (MS) %R					X
4. Matrix spike duplicate (MSD) %R					X
5. MS/MSD precision (RPD)					X
6. Laboratory Control Sample (LCS) %R		X		X	
7. LCS duplicate (LCSD) %R					X
8. LCS/LCSD precision (RPD)					X
9. Surrogate spike recoveries		X		X	
10. Instrument performance check		X		X	
11. Internal standard retention times and areas		X		X	
12. Initial calibration RRF's and %RSD's		X		X	
13. Continuing calibration RRF's and %D's					X
14. 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.

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		X	
B. Field blanks					X
3. Initial calibration verification %R		X		X	
4. Continuing calibration verification %R		X		X	
5. CRDL standard %R					X
6. Interference check sample %R		X		X	
7. Laboratory control sample %R		X		X	
8. Spike sample %R					X
9. Post digestive spike sample %R					X
10. Duplicate %RPD					X
11. Serial dilution check %D					X
12. Field duplicates RPD					X

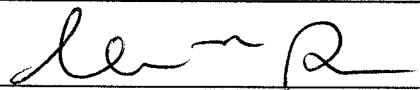
%R - percent recovery

%D - percent difference

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 2/9/2010
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners		
Project Number:	2531-03		
Sample Date(s):	January 4, 2010		
Matrix/Number of Samples:	<u>Water/ 3</u> <u>Trip Blank/0</u>		
Analyzing Laboratory:	Mitkem Laboratories, Warwick, RI		
Analyses:	<u>Volatile Organic Compounds (VOCs): OLM4.2</u> <u>Metals: Iron and manganese by USEPA SW846 Method 6010</u>		
Laboratory Report No:	SJ0005	Date:	1/19/2010

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. Matrix spike (MS) %R					X
4. Matrix spike duplicate (MSD) %R					X
5. MS/MSD precision (RPD)					X
6. Laboratory Control Sample (LCS) %R		X		X	
7. LCS duplicate (LCSD) %R					X
8. LCS/LCSD precision (RPD)					X
9. Surrogate spike recoveries		X		X	
10. Instrument performance check		X		X	
11. Internal standard retention times and areas		X		X	
12. Initial calibration RRF's and %RSD's		X		X	
13. Continuing calibration RRF's and %D's		X		X	
14. 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.

INORGANIC ANALYSES METALS

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Preparation and calibration blanks		X	X		
B. Field blanks					X
3. Initial calibration verification %R		X		X	
4. Continuing calibration verification %R		X		X	
5. CRDL standard %R					X
6. Interference check sample %R		X		X	
7. Laboratory control sample %R		X		X	
8. Spike sample %R					X
9. Post digestive spike sample %R					X
10. Duplicate %RPD					X
11. Serial dilution check %D					X
12. Field duplicates RPD					X

%R - percent recovery

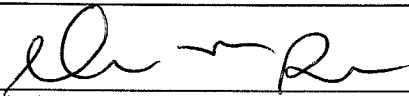
%D - percent difference

RPD - relative percent difference

Comments:

Performance was acceptable with the following exception:

- 2A. Manganese was detected in preparation blank and detected in the sample at concentration less than ten times the concentration found in the blank. Therefore, manganese in sample AS was qualified as non-detect (U).

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 2/9/2010
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners aka Hempstead		
Project Number:	2531-03		
Sample Date(s):	January 21, 2010		
Matrix/Number of Samples:	Water/ 3 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 6010B		
Laboratory Report No:	220-11344	Date:	2/04/2010

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. Matrix spike (MS) %R					X
4. Matrix spike duplicate (MSD) %R					X
5. MS/MSD precision (RPD)					X
6. Laboratory Control Sample (LCS) %R		X		X	
7. LCS duplicate (LCSD) %R					X
8. LCS/LCSD precision (RPD)					X
9. Surrogate spike recoveries		X		X	
10. Instrument performance check		X		X	
11. Internal standard retention times and areas		X		X	
12. Initial calibration RRF's and %RSD's		X		X	
13. Continuing calibration RRF's and %D's		X	X		
14. 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:

- 2A. Acetone was detected in the method blank. It was not detected in the associated samples and therefore did not impact the usability of the reported sample results.
13. The %Ds were above the QC limit for dichlorodifluoromethane and bromomethane in the continuing calibrations associated with all samples. Dichlorodifluoromethane and bromomethane were not detected in the samples and were qualified as estimated (UJ) in all samples.

INORGANIC ANALYSES METALS

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Preparation and calibration blanks		X		X	
B. Field blanks					X
3. Initial calibration verification %R		X		X	
4. Continuing calibration verification %R		X		X	
5. CRDL standard %R		X		X	
6. Interference check sample %R		X		X	
7. Laboratory control sample %R		X		X	
8. Spike sample %R		X		X	
9. Post digestive spike sample %R					X
10. Duplicate %RPD		X		X	
11. Serial dilution check %D		X		X	
12. Field duplicates RPD					X

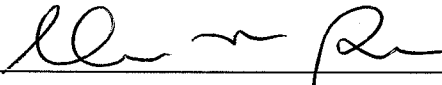
%R - percent recovery

%D - percent difference

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 4/7/2010
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners aka Hempstead		
Project Number:	2531-03		
Sample Date(s):	February 5, 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):</u> USEPA SW846 Method 8260B <u>Metals:</u> Iron and manganese by USEPA SW846 Method 6010B		
Laboratory Report No:	220-11469	Date:	2/23/2010

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. Matrix spike (MS) %R					X
4. Matrix spike duplicate (MSD) %R					X
5. MS/MSD precision (RPD)					X
6. Laboratory Control Sample (LCS) %R		X		X	
7. LCS duplicate (LCSD) %R					X
8. LCS/LCSD precision (RPD)					X
9. Surrogate spike recoveries		X		X	
10. Instrument performance check		X		X	
11. Internal standard retention times and areas		X		X	
12. Initial calibration RRF's and %RSD's		X		X	
13. Continuing calibration RRF's and %D's		X		X	
14. 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.

INORGANIC ANALYSES METALS

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Preparation and calibration blanks		X		X	
B. Field blanks					X
3. Initial calibration verification %R		X		X	
4. Continuing calibration verification %R		X		X	
5. CRDL standard %R		X		X	
6. Interference check sample %R		X		X	
7. Laboratory control sample %R		X		X	
8. Spike sample %R		X		X	
9. Post digestive spike sample %R					X
10. Duplicate %RPD		X		X	
11. Serial dilution check %D		X			
12. 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 4/7/2010
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name:	Franklin Cleaners aka Hempstead		
Project Number:	2531-03		
Sample Date(s):	February 19, 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):</u> USEPA SW846 Method 8260B <u>Metals:</u> Iron and manganese by USEPA SW846 Method 6010B		
Laboratory Report No:	220-11525	Date:	3/05/2010

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 exception:

- Based on laboratory qualifiers %Rs were outside the QC limit for methyl isobutyl ketone, dibromochloromethane and 1,2-dibromo-3-chloropropane in the LCS associated with all samples. They were not detected in the samples and therefore did not impact the usability of the reported sample result.

INORGANIC ANALYSES METALS

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

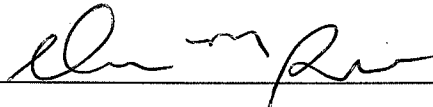
%R - percent recovery

%D - percent difference

RPD - relative percent difference

Comments:

Performance was acceptable.

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 4/7/2010
VALIDATION PERFORMED BY SIGNATURE:	

DATA VALIDATION CHECK LIST

Project Name: Franklin Cleaners aka Hempstead

Project Number: 2531-03

Sample Date(s): February 24, 2010

Matrix/Number
of Samples: Water/ 2
Trip Blank/0

Analyzing
Laboratory: TestAmerica Laboratories, Shelton, CT

Analyses: Volatile Organic Compounds (VOCs): USEPA SW846 Method 8260B

Laboratory
Report No: 220-11579

Date: 3/16/2010

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					
C. Field blanks					
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:

- 1,2,4-Trichlorobenzene was detected in the method blank. 1,2,4-Trichlorobenzene was not detected in the samples and therefore did not impact the usability of the reported sample result.
- 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.

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