MULTI-PHASE EXTRACTION SYSTEM

AAFES RETAIL FUEL FACILITY
BUILDING 200
U.S. ARMY GARRISON FORT HAMILTON
BROOKLYN, NEW YORK

SIXTH QUARTERLY SYSTEM OPERATIONS REPORT
(October 1, 2010 through December 31, 2010)

FINAL
APRIL 2011

PREPARED FOR

U.S. ARMY CORPS OF ENGINEERS, BALTIMORE DISTRICT
Contract Number: W912DR-05-D-0026
Delivery Order 0036

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April 20, 2011

Ms. Phyllis Della-Camera
U.S. Army Corps of Engineers
Baltimore District HTRW Branch
10 South Howard St.
Baltimore, Md. 21201

Subject: 6th Quarterly Operations Report
Contract No. W912DR-05-D-0026
Task Order 36
Ft. Hamilton AAFES Multi-phase Extraction System
Brooklyn, NY, NY 11252

Dear Phyllis,

Shaw Environmental and Infrastructure's (Shaw's) System Operations Report for the Sixth Quarter of Operations (October 1, 2010 through December 31, 2010) for the Ft, Hamilton MPE Treatment System is presented below. For your reference, site figures are included in **Sections 1 and 4.**

SITE ACTIVITIES

1. On Thursday, October 7th, Terry McHugh (Shaw) arrived at the site at 0600 hrs. Terry completed the exhaust stack installation in preparation for switching to vapor carbon operations rather than thermal oxidation operations. The final exhaust stack height is 15' 2.5". Upon completion of the stack installation, Terry attempted to re-start the system; however, it would not start. Once technical support was available at 1100 hrs, he called Catalytic Combustion to troubleshoot the system's failure to start. A jumper wire was added to electrical control points 60A and X22 in order to isolate the thermal oxidizer controls from the treatment unit controls. Upon completion, the system was restarted (in vapor carbon operations) with no problems to note. Sampling ports were drilled in the air pipe work and the quarterly air samples were collected for analysis. The blower flow rate was also checked with a hot tip probe air flow meter. The blower is producing 250 cfm through the newly installed exhaust stack. Terry left the site at 1400 hrs. Time on site was 8 hours. The system was running upon departure. Terry returned to Shaw's Mt. Arlington office, he prepared the air samples for shipment and shipped them to the lab for next day delivery.

2. On Friday October 8th, Terry McHugh arrived on site at 1100 hrs after picking up supplies for the Redux Treatment System Installation. The system was running upon arrival. A trench was dug from the treatment section to the electrical distribution section of the treatment plant. Electrical conduit (1" PVC) was installed in the trench and terminated with fittings that connected the two sections. Two power wires and one grounding wire were snaked through the conduit and the trench was then backfilled with dirt. Due to incorrect switch plate fittings and the need of a second person to assist with power tracing, the installation could not be completed on October 8th. Terry left the site at 1500 hrs. Time on site was 4 hours. The system was running upon departure.

3. On Wednesday October 13th, Terry McHugh and Michelle Lobsiger (Shaw) arrived on site at 0700 hrs. Michelle assisted in tracing the electrical points of the air actuator that controls the moisture separator system. Once the actuator's electrical points were confirmed, the three snaked wires were terminated as required to provide power to the Redux chemical pump. Next, the chemical pump's wiring was terminated with a local on/off switch wired in the event an emergency shut off was necessary. The pump was tested and was positively proved out. The pump now operates only when the moisture separator engages. This will minimize the amount of Redux 390 the system consumes and will make the dosage much more accurate. Redux 390 (Chemical) was transferred from drums outside the treatment unit to a drum within the electrical room and a drum within the treatment unit to prevent them from freezing. The chemical pump was mounted atop the drum in the treatment unit. A suction and discharge hose were installed on the pump. The discharge hose terminates in the OWS tank stilling well. The pump was primed and the Redux 390 Injection System was put on line. Photographs of the installation are included in **Section 5**. The system was running upon departure. Terry and Michelle left the site at 1500 hrs. Time on site was 8 hours.

4. On Monday, October 25th, Terry McHugh arrived on site at 1330 hrs. Terry collected an effluent and intermediate (process control) air sample in order to monitor benzene emissions. Now that extracted air is being treated through vapor phase carbon rather than thermal oxidation, it is necessary to regularly collect process control samples in order to monitor "breakthrough" of benzene into the atmosphere. Once a historical database is established to gauge the estimated "breakthrough", it may be possible to reduce the number of process control samples needed between carbon change-outs. Once air sampling was completed, Terry cleaned up the treatment unit area, recorded some system information and left the site at 1450 hrs. Time on site was 1.33 hours. The system was running upon departure. Upon return to Shaw's office, the air samples were shipped overnight to the analyzing lab.

5. On Thursday, October 28th, Terry McHugh arrived at the site at 1100 hrs. Terry collected the required quarterly USACE influent and effluent samples and the required monthly NYCDEP effluent samples. Influent and effluent hardness samples to determine the effectiveness of the Redux 390 system were also collected at this time. Terry left the site at 1330 hrs and returned to the Shaw office to pack and ship all samples to the analyzing lab. The system was running upon departure. Time on site was 2.5 hours.

6. On Friday, October 29th, Terry McHugh arrived on site at 0930 hrs. The system was running in the dual phase mode upon arrival. Terry recorded equipment information and water / LNAPL levels. Also during the visit, the extraction valve for MPE-1 was shut off since the well had no water in it. He left the site at 1230 hrs. The system was running upon departure. Time on site was 3 hours.

7. On Monday, November 1st, Terry McHugh arrived on site at 0900 hrs. The system was running upon arrival, but was shut down soon after. The oil in the vapor extraction blower was changed at this time. Vapor blower hours reading at the time of the oil change was 7,277.31. The system was re-started at 1100 hrs. The system was down for approximately 2 hours. After recording some system information, Terry left the site at 1200 hrs. The system was running upon departure. Time on site was 3 hours.

8. On Thursday, November 11th, Terry McHugh arrived on site at 0700 hrs. The system was shut-down and the liquid phase carbon drums in service were disconnected and dewatered. They were removed from the treatment unit and staged with a third (spent) drum. United Crane and Siemens Carbon were on site at 0830 hrs. United Crane unloaded (7) 1,000 lb super-sacks of vapor phase carbon and (4) 55-gallon drums of liquid phase carbon from the Siemens delivery truck to a designated receiving area next to the AAFES gas station. United Crane then loaded the three (spent) liquid phase carbon drums onto the Siemens delivery truck. Once all paperwork was completed, United Crane and Siemens left the site. Two of the new liquid phase carbon drums were placed in the treatment unit for installation. The remaining two drums were left outside for future use. Terry purchased 2" pipe and pipe-fittings in order to "pipe in" the two drums; however, Home Depot did not have the parts needed to complete the pipe installation. Two other establishments were also visited, but they too did not have the parts needed. The system was left shut down and Terry left the site at 1130 hrs. Time on site was 4.5 hours.

9. On Friday, November 12th, Terry McHugh arrived on site at 1130 hrs and quickly installed enough piping on the liquid phase carbon drums to fill the drums with water. The drums were left to soak over the weekend. Terry left the site at 1200 hrs. The system remained shut-down upon departure. Time on site was 0.5 hrs.

10. On Tuesday, November 16th, Terry McHugh arrived on site at 1030 hrs. Terry discovered that the newly installed galvanized fittings on the liquid phase carbon drums were leaking and the leaks could not be stopped. The galvanized fittings and piping were replaced with PVC pipe and fittings in order to rectify the leak problem. The remainder of the pipe installation was completed at this time. The drums were re-filled with water and the system was re-started. Photographs of the installation are included in **Section 5**. After one hour of operation, a process control (air) sample was collected for monitoring benzene emissions through the vapor phase carbon. After system information was recorded, all extraction well tubes were lowered into their respective wells to put the system in the dual phase mode. Terry left the site running at 1330 hrs. Time on site was 3 hours. System down time from November 11th through November 16th was approximately 125 hours.

11. On Thursday, November 18th, Terry McHugh arrived on site at 0815 hrs. All system information, water levels and LNAPL levels were recorded at this time. Extraction well drop tubes were measured and lowered to surface water levels. Terry left the site at 1200 hrs with the system running. Time on site was 3.75 hrs.

12. On Monday, November 29th, Terry McHugh arrived on site at 1000 hrs. The system was running upon arrival. A process control sample (air effluent) was collected to monitor benzene emissions from the vapor phase carbon units. Terry increased the vacuum of the extraction system to - 4 in. Hg. System information was recorded. Terry left the site at 1030 hrs. The system was running upon departure. Time on site was 0.5 hrs. Upon return to Shaw's office, the air sample was packaged and shipped overnight to the analyzing lab.

13. On Monday, December 6th, Terry McHugh and Michelle Lobsiger were on site at 0545 hrs to collect the quarterly groundwater samples. MW-5 was not sampled during this event since it displayed 0.10 ft of LNAPL on its surface. National Grid was also on site this day to shut off the gas to the thermal oxidizer and while on site, they removed the gas meter and plugged the remaining pipe work. After completing the ground water sampling, Terry replaced a damaged fitting in MW-5, collected system information and increased the extraction vacuum to -6 in. Hg. Terry and Michelle left the site at 1500 hrs. The system was running upon departure. Time on site was 9.25 hrs.

14. On Tuesday, December 7th, Terry McHugh was on site at 1000 hrs. The system was running upon arrival. Terry collected NYCDEP effluent water samples. He left the site at 1230 hrs. The system was running upon departure. Time on site was 2.5 hours. Samples were packed and shipped (overnight), along with groundwater samples taken the day before, to the analyzing lab.

15. On Monday, December 13th, Terry McHugh arrived on site at 1000 hrs after receiving his new site pass at the visitor control center. Terry removed all electrical conduit, power and control wiring, and unbolted the thermal oxidizer's exhaust stack in preparation of the thermal oxidizer's demobilization tomorrow. He also collected a process control sample (air) to monitor the benzene emissions from the vapor phase carbon units. He left the site at 1200 hrs. The system was running upon departure. Time on site was 2 hours.

16. On Tuesday, December 14th, Terry McHugh arrived on site at 0630 hrs after picking up supplies at the Home Depot in Coney Island, NY. Mississippi Valley Transport (Receiving Truck) was on site and staged at 0645 hrs. United Crane was on site by 0800 hrs; however they did not have a crane as ordered. They arrived on site with a fork lift. In order to prevent extensive demurrage time, Terry allowed United Crane to try to lift the thermal oxidation unit with the fork lift; however, the unit was continually breaking down. Terry eventually sent the unit off site and requested a 40 ton crane to complete the demobilization. The crane did not arrive on site until 1800 hrs. After removing the unit's exhaust stack, the thermal oxidizer was removed from its location and loaded onto the receiving truck. The stack was also loaded onto the receiving truck. Once the exhaust stack mount flange was covered, the oxidizer was secured to the truck by the driver. United Crane's paperwork was completed and they left site at 1930 hrs. Mississippi Valley Transport's bill of lading was completed at 1945 hrs. Terry and the Mississippi Valley Transport truck left the site at 2000 hrs. Time on site was 13.25 hrs. The system was running upon departure. The thermal oxidizer demobilization is complete.

17. On December 27th, Terry McHugh received various alarm messages from the site's auto-dialer. The alarms were acknowledged; however, due to heavy snowfall in the region, a state of emergency condition was in effect, making it impossible to respond to the alarm that day.

18. On December 28th, Terry McHugh arrived on site at 1200 hrs. The system was down upon arrival. A "burning" odor was detected upon entry to the treatment unit. Troubleshooting revealed that the belts on

the vapor extraction blower were slipping. The blower unit was locked and tagged out. After removing the belt shroud, the belts were tightened. The unit was tested and the belts were no longer slipping. The belt shroud was replaced. Since the unit was down, Terry greased and changed the oil in the blower as part of its routine maintenance. After completing all work associated with the blower, the unit was unlocked, untagged and returned to service. While on site, Terry also discovered the air stripper unit level controls were not operating properly. Troubleshooting revealed that the low level float was not positioned over the float tree's inner magnet. The float was re-positioned and the controls were again working correctly. After lowering the tank levels manually, the system was restarted. The extraction vacuum reading for the system was very steady and would go no higher than -5 in. Hg. This indicates that the extraction pipe-work has an ice blockage within it somewhere. Since all extraction wells were covered by high piles of snow or vehicles, the blockage could not be investigated. In lieu of unfreezing, the system vacuum was reduced to -4 in. Hg. and left in hope that the vacuum from a running system could unfreeze and remedy itself of the ice blockage. Terry locked up the units and left the site at 1500 hrs. Time on site was 3 hours.

PROBLEMS ENCOUNTERED AND CORRECTIVE ACTIONS

1. Water level monitoring shows that MPE-1 is dry. This may not be a prolonged problem since water levels on site are very low; however, this condition must continue to be monitored to ensure that the dry condition is seasonal.

TASKS TO BE INITIATED IN THE NEXT REPORTING PERIOD

1. Continue operating and maintaining the MPE system.

2. Complete required system water, air and groundwater sampling.

MONTHLY O&M ACTIVITIES

Required System Sampling

During the quarter, system effluent (process) water sampling, as required by the NYCDEP discharge permit, was completed during October, November and December. The reportable concentrations are detailed in the Ft. Hamilton - Building 200 Multi-phase Treatment System Compliance Data Table enclosed in **Section 1.** The analytical data for this sampling is included in **Section 2.** System air stream sampling was conducted on October 7th. Maximum benzene emission results are detailed in the Ft. Hamilton - Building 200 Multi-phase Treatment System Compliance Data Table enclosed in **Section 1.** The analytical data for this sampling is included in **Section 3**. Quarterly USACE influent and effluent sampling was conducted on October 28th. Results for these samples are used for process control purposes and are not for compliance demonstration of the treatment system. Analytical data for these samples are presented in **Section 2.** Quarterly groundwater / monitoring well sampling was conducted on December 6th. Detected analytical results are presented in the Ft.

Hamilton – Groundwater Concentrations Table in **Section 4.** The associated analytical data is also included in **Section 4**.

Additional Tables, Figures and Data

- All operational data (Ft. Hamilton Treatment Unit Information Table) is shown in **Section 1**.
- Daily water discharge per month is detailed in the Ft. Hamilton Building 200 Multi-phase Treatment System Compliance Data Table and is enclosed in **Section 1.**
- Monitoring well information is detailed in the Ft. Hamilton Monitoring and Extraction Well status Table and is included in **Section 1**.
- Revised P&ID is included in **Section 1.**
- Groundwater elevation contours maps are shown in **Section 1**.
- Calculations of LNAPL mass recovered are shown in **Section 1.**
- Groundwater concentrations table is shown in **Section 4.**
- Historical groundwater concentrations tables are shown in **Section 4.**

System Operation / Time on Site

The system was operational approximately 109,829 minutes out of a possible 132,480 minutes during the period. Shaw was on site 72.08 hours during this reporting period. Based on influent air concentrations, no LNAPL was removed during the period. See **Section 1** for calculations.

POSITIVE OR NEGATIVE OBSERVATIONS

The system was operational 82.90 % of the time during this reporting period. All system effluent water samples analyzed during the period were compliant with the NYCDEP discharge permit. All effluent air samples analyzed during the period were compliant with the Stipulation Agreement with the New York State Department of Conservation (NYSDEC). The thermal oxidation unit was taken off line on October 7th after it was determined that the extracted vapor was entering the system at concentrations too low for the unit to be efficient. The carbon adsorption units were put on line in its place in accordance with the vapor treatment plan described in the Remedial Action Work Plan (December 2007). The thermal oxidation unit was demobilized on December 14th. The change in vapor treatment now requires that process control samples be taken to determine vapor-phase carbon break-through. Shaw has updated the existing P&ID to reflect the current treatment configuration and is included in Section 1.

LNAPL recovery calculations for this period were completed using TO-15 hydrocarbon compound concentrations instead of the TO-3 results since the influent TPH sample collected may have been inaccurate due to the method in which it was collected. When the carbon adsorbers were put on line, the influent air flow changed from pressure flow to vacuum. The air pump used to draw the sample into the tedlar bag was not powerful enough to overcome the vacuum and was not able to collect a sample. In order to complete the event, a syringe was used to draw the sample and fill the tedlar bag. This technique, although practical, may not be acceptable to ensure accurate analysis. Since this event, a high velocity air sampler was purchased to rectify this (influent only) problem.

Since the removal of the thermal oxidation unit, process control air samples are collected in order to determine "breakthrough" for benzene in the vapor carbon. During this reporting period, benzene concentrations have been non-detect; therefore, carbon change-out was not necessary this quarter. . Original estimates regarding carbon change-out frequency have been exceeded. Results for these process control samples are included in **Section 3**.

Groundwater samples were not collected for MW-5 during the quarterly groundwater sampling event since LNAPL was present in the well. Although, previous and post LNAPL measurements for the 6th quarter, displayed no presence of LNAPL, it measured 0.10 ft. on that day. Shaw regards this circumstance as unusual; however, is confident in its measurements because of the quality control efforts the on-site technician performs during measurement activities.

MW-1 remains the only well that has not been sampled during 6 quarters of operation due to the presence of LNAPL in the well at the time of sampling.

The Redux 390 System installation has been completed. Uncertified testing of hardness has been conducted on the influent and effluent waters of the treatment system. Influent and effluent hardness samples have had similar results, which indicate the system is working as designed. Visually, the air stripper is no longer experiencing gasket breaching nor are the liquid carbon drums bulging due to high pressure. Although these are all positive conditions, monitoring must continue in order to ensure this resolution is permanent.

If you have any questions or concerns regarding any information contained within this report, please do not hesitate to call me at (201) 400-2798.

Best Regards,

Terence McHugh (Shaw E&I)
(System Operator)
Cc: Gerry Maresca
Peter Koutroubis

SECTION 1

OPERATIONAL DATA

(Monitoring Wells)

(Extraction Wells)

(Treatment Unit)

SYSTEM COMPLIANCE TABLE

(Effluent Gallonage Discharged to NYCDEP Sanitary Sewers)

(Quarterly Air Effluent)

(Monthly Water Effluent)

LNAPL MASS REMOVAL CALCULATIONS

REVISED P&ID FIGURE A1

WATER CONTOUR FIGURES 1 THROUGH 3

FORT HAMILTON MONITORING AND EXTRACTION WELL STATUS

Description	10/29/2010	11/18/2010	12/14/2010
MW-1 (Elevation)	98.93	98.93	98.93
DTW	24.30	24.45	24.95
DTP	23.28	23.45	24.53
LNAPL THICKNESS	1.02	1.00	0.42
GWELEV	74.63	74.48	73.98
CORRECTED GWELEV	75.38	75.22	74.29
PID READING (ppm)	8	30	150
MW - 4 (Elevation)	98.10	98.10	98.10
DTW	21.18	21.10	22.30
DTP	NPD	NPD	NPD
LNAPL THICKNESS	0.0	0.0	0.0
GWELEV	76.92	77.00	75.8
CORRECTED GWELEV	76.92	77.00	75.8
PID READING (ppm)	0	0	0
MW - 7 (Elevation)	99.47	99.47	99.47
DTW	21.16	21.38	22.15
DTP	NPD	NPD	NPD
LNAPL THICKNESS	0.0	0.0	0.0
GWELEV	78.31	78.09	77.32
CORRECTED GWELEV	78.31	78.09	77.32
PID READING (ppm)	0	0	0
MPE-3 (Elevation)	98.14	98.14	98.14
DTW	16.02	16.55	16.20
DTP	NPD	NPD	NPD
LNAPL THICKNESS	0.0	0.0	0.0
GWELEV	82.12	81.59	81.94
CORRECTED GWELEV	82.12	81.59	81.94
MPE WELL VACUUM (in. Hg.)	-3	-4	-5
PID READING	0	0	0
MPE-6 (Elevation)	98.93	98.93	98.93
DTW	17.55	19.85	21.85
DTP	NPD	NPD	NPD
LNAPL THICKNESS	0.0	0.0	0.0
GWELEV	81.38	79.08	77.08
CORRECTED GWELEV	81.38	79.08	77.08
MPE WELL VACUUM (in. Hg.)	-3	-4	-5
PID READING	0	0	0

Description	10/29/2010	11/18/2010	12/14/2010
MW - 2 (Elevation)	99.44	99.44	99.44
DTW	23.06	23.45	24.40
DTP	NPD	NPD	NPD
LNAPL THICKNESS	0.0	0.0	0.0
GWELEV	76.38	75.99	75.04
CORRECTED GWELEV	76.38	75.99	75.04
PID READING (ppm)	0	0	1.4
MW - 5 (Elevation)	98.74	98.74	98.74
DTW	18.50	20.25	19.70
DTP	NPD	NPD	NPD
LNAPL THICKNESS	0.0	0.0	0.0
GWELEV	80.24	78.49	79.04
CORRECTED GWELEV	80.24	78.49	79.04
MPE WELL VACUUM (in. Hg)	-3	-4	-5
PID READING (ppm)	0	0	0
MPE-1 (Elevation)	99.00	99.00	99.00
DTW			
DTP			
LNAPL THICKNESS	WELL	WELL	WELL
GWELEV	DRY	DRY	DRY
CORRECTED GWELEV			
MPE WELL VACUUM (in. Hg)			
PID READING	0	0	0
MPE-4 (Elevation)	99.19	99.19	99.19
DTW	18.15	19.12	16.67
DTP	NPD	NPD	NPD
LNAPL THICKNESS	0.0	0.0	0.0
GWELEV	81.04	80.07	82.52
CORRECTED GWELEV	81.04	80.07	82.52
MPE WELL VACUUM (in. Hg)	-3	-4	-5
PID READING	0	0	0
MPE-7 (Elevation)	97.42	97.42	97.42
DTW	16.70	17.00	19.65
DTP	NPD	NPD	NPD
LNAPL THICKNESS	0.0	0.0	0.0
GWELEV	80.72	80.42	77.77
CORRECTED GWELEV	80.72	80.42	77.77
MPE WELL VACUUM (in. Hg.)	-3	-4	-5
PID READING	0.7	0	0

Description	10/29/2010	11/18/2010	12/14/2010
MW- 3 (Elevation)	99.00	99.00	99.00
DTW	21.89	22.10	24.00
DTP	NPD	NPD	NPD
LNAPL THICKNESS	0.0	0.0	0.0
GWELEV	77.11	76.90	75.00
CORRECTED GWELEV	77.11	76.90	75.00
PID READING (ppm)	0	0	0
MW - 6 (Elevation)	99.10	99.10	99.10
DTW	26.78	26.81	B
DTP	NPD	NPD	L
LNAPL THICKNESS	0.0	0.0	O
GWELEV	72.32	72.29	C
CORRECTED GWELEV	72.32	72.29	K
PID READING (ppm)	0	0	E
			D
MPE-2 (Elevation)	98.75	98.75	98.75
DTW	18.20	21.10	21.90
DTP	NPD	NPD	NPD
LNAPL THICKNESS	0.0	0.0	0.0
GWELEV	80.55	77.65	76.85
CORRECTED GWELEV	80.55	77.65	76.85
MPE WELL VACUUM (in. Hg.)	-3	-4	-5
PID READING	0	0	0
MPE-5 (Elevation)	97.93	97.93	97.93
DTW	17.75	18.10	19.94
DTP	NPD	NPD	NPD
LNAPL THICKNESS	0.0	0.0	0.0
GWELEV	80.18	79.83	77.99
CORRECTED GWELEV	80.18	79.83	77.99
MPE WELL VACUUM (in. Hg.)	-3	-4	-5
PID READING	0	0	0

LNAPL measurements denote thickness of product in ft.

DTW - Depth to Water DTP - Depth to Product NPD - No Product Detected

GW Elev measurements denote feet above sea level. DTW / DTP measurements are from top of casing.

Corrected Groundwater Concentration (CGW) C = LNAPL thickness multiplied by specific gravity of gasoline (vehicle) (0.739) plus the elevation of the LNAPL / water interface.

FORT HAMILTON TREATMENT UNIT INFORMATION TABLE	6th Quarter System Operations		
Description	10/29/2010	11/18/2010	12/14/2010
MPE System Blower Vacuum (in Hg)	-3.0	-4.0	-5.0
MPE System Blower Flow Rate (CFM)	250	250	250
Influent Vapor Concentration (ppm)	14	11	12
Influent LEL %	0	0	0
Enclosure LEL%	0	0	0
Air Stripper Off Gas Concentration (ppm)	0	0	0
Effluent Vapor Concentration (ppm)	0	0	0
MPE Wells Operating	1,2,3,4,5,6,7, MW 5	1,2,3,4,5,6,7, MW 5	1,2,3,4,5,6,7, MW 5
Blower Discharge Air Temp. (Fahrenheit)	140	150	160
Vapor Extraction Blower Hours	7206.65	7560.56	8185.77
Particle Filter Differential Pressure (in wc)	2.0	2.0	2.0
Blower Pitot Tube Differential Pressure (in wc)	2	2	2
OWS Pump Pressure (psi)	35	nr	nr
LNAPL Collected in Drum (gallons)	0	0	0
Air Stripper Blower Pressure (in. wc.)	15	6	12
Air Stripper Blower Hours	7082.12	7435.64	8060.00
Air Stripper Discharge Pump Pressure (psi)	30	40	nr
Bag Filter 1 Pressure 1 (psi)	5	3	nr
Bag Filter 1 Pressure 2 (psi)	5	3	nr
Bag Filter 2 Pressure 1 (psi)	5	3	nr
Bag Filter 2 Pressure 2 (psi)	5	3	nr
Effluent Water Meter Discharge Reading	12740	13805	16130
Oxidizer Inlet Temperature (Fahrenheit)	Out	Of	Service
Oxidizer Outlet Temperature (Fahrenheit)	Out	Of	Service
Oxidizer Flame Strength (Volts)	Out	Of	Service
Gas (in. wc.)	Out	Of	Service
Gas PS3 Gauge (inches of water)	Out	Of	Service
Gas Meter Reading (cf)	33063	33063	33063
Air Compressor (psi)	60	60	60

Fort Hamilton Building 200 Multi-Phase Treatment System Compliance Data Table

Daily Water Discharge Per Month						Oct-10	Nov-10	Dec-10
< 9,000 Gallons Per Day (recommended)				(Gallons / Day)		26	52	104
Air Effluent		*(Stack - Height 15 ft.)*		(Quarterly)			FH100710SET015	
Air flow (cfm)		Max. Benzene Emissions (ppm-v)	Max Benzene Emissions (ug/m3)	Max Benzene Emissions (lbs./hr)		Benzene Emissions (ppm-v)	Benzene Emissions (ug/m3)	Benzene Emissions (lbs./hr)
250 (design rate)		1.60	5272	0.00494		<0.002	<0.6	<0.00494
Air Stripper Off - Gas				(Quarterly)				
Air flow (cfm)		Max. Benzene Emissions (ppm-v)	Max Benzene Emissions (ug/m3)	Max Benzene Emissions (lbs./hr)		Benzene Emissions (ppm-v)	Benzene Emissions (ug/m3)	Benzene Emissions (lbs./hr)
150 (design rate)		2.66	8787	0.00494		0.00030	1.0	<0.00494
Water Effluent		*(NYCDEP Discharge Parameters)*		(Monthly)				
Parameter	Method	Daily Limit / Monthly Limit	Units	Sample Type	Sample Units	FH-102810-NS-WE FH-102810-NS-WE-COMP October 28, 2010	FH-111810-NS-WE FH-111810-NS-WE-COMP November 18, 2010	FH-120710-WE FH-120710-NS-WE-COMP December 7, 2010
Non-polar material	1664	50	mg/l	Instantaneous	mg/l	<2.0	<2.1	<2.1
pH	SM4500	5-11	SU's	Instantaneous	su	8.72	9.3	8.32
Temperature	2550	< 150	Degree F	Instantaneous	Deg. F.	68	64	63
Flash Point	1010A	> 140	Degree F	Instantaneous	Deg. F.	>200	>200	>200
Cadmium	200.7	2 0.69	mg/l mg/l	Instantaneous Composite	mg/l mg/l	<0.0010 <0.0010	<0.0010 <0.0010	<0.0010 <0.0010
Chromium (VI)	SM3500	5	mg/l	Instantaneous	mg/l	<0.010	<0.010	<0.010
Copper	200.7	5	mg/l	Instantaneous	mg/l	0.0069	0.012	0.0068
Lead	200.7	2	mg/l	Instantaneous	mg/l	<0.0030	0.0031	0.0060
Mercury	245.1	0.05	mg/l	Instantaneous	mg/l	<0.00020	<0.00020	<0.00020
Nickel	200.7	3	mg/l	Instantaneous	mg/l	<0.010	<0.010	<0.010
Zinc	200.7	5	mg/l	Instantaneous	mg/l	0.011	0.024	0.48
Benzene	624	134 / 57	ppb	Instantaneous	ug/l	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0
Carbon tetrachloride	624	---	---	Composite	ug/l	<1.0	<1.0	<1.0
Chloroform	624	---	---	Composite	ug/l	<1.0	<1.0	<1.0
1,4 Dichlorobenzene	624	---	---	Composite	ug/l	<1.0	<1.0	<1.0
Ethylbenzene	624	380/142	ppb	Instantaneous	ug/l	<1.0	<1.0	<1.0
MTBE (Methyl-Tert-Butyl-Ether)	624	50	ppb	Instantaneous	ug/l	<1.0	<1.0	<1.0
Naphthalene	625	47/19	ppb	Composite	ug/l	<1.4 / <1.4	<1.5 / <1.5	<1.4 /<1.4
Phenol	420.4	---	---	Composite	mg/l	<0.01	0.05	<7.7
Tetrachloroethylene (Perc)	624	20	ppb	Instantaneous	ug/l	<1.0	<1.0	<1.0
Toluene	624	74/28	ppb	Instantaneous	ug/l	<1.0 / <1.0	<1.0 / <1.0	<1.0
1,2,4 Trichlorobenzene	625	---	---	Composite	ug/l	<2.9	<2.9	<2.9
1,1,1 Trichloroethane	624	---	---	Composite	ug/l	<1.0	<1.0	<1.0
Xylenes (Total)	624	74/28	ppb	Instantaneous	ug/l	<3.0	<3.0	<3.0
PCB's (Total)	608	1	ppb	Composite	ug/l	<0.48	<0.48	<0.48
Total Suspended Solids (TSS)	2540	3504	mg/l	Instantaneous	mg/l	<5.0	5.0	<5.0
CBOD	5210B	---	---	Composite	mg/l	<2.0	2.4	<2.0
Chloride	300.0	---	---	Instantaneous	mg/l	110	58.4	591
Total Nitrogen	Calculation	---	---	Composite	mg/l	1.34	<1.0	<1.0
Total Solids	2540	---	---	Instantaneous	mg/l	596	395	1180
Other								

6th Quarter System Operation

LNAPL MASS REMOVAL CALCULATIONS

System Information: **Thermal destruction 100%**

Operating minutes:	109829.4
Blower CFM:	250 cfm
Influent TPH:	23.19 ug/l
Effluent TPH:	ND ug/l

Conversions:

1 Cu. Ft. = 28.3168466 (L) Liters.	
250 CFM = 7079.21165 (L/M)	Calc: (250x28.3168466)
77,750,567.99251 Liters	Calc: (7079.21165L/M x 109829.4 Minutes)
1,803,035,671.7463069 (micrograms)	Calc: (23.19 ug/l x 77,750,567.99251L)

1,803,035,671.7463069 micro grams removed in total

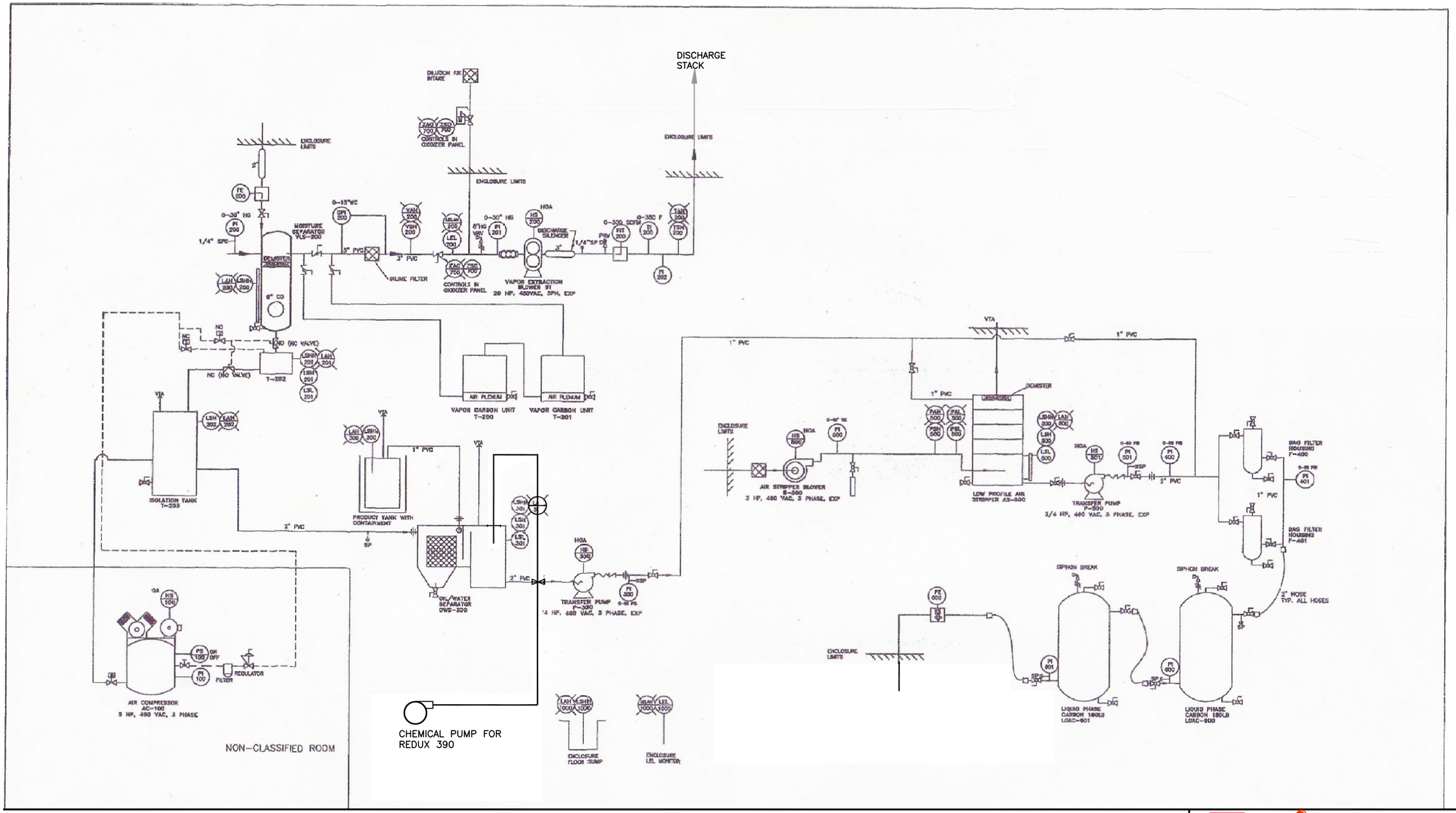
1,803,035,671.7463069 micro grams = 3.97501 pounds.

Gasoline weight = 5.93 to 6.42 pounds

3.97501 / 5.92 = 0.67 gallons
3.97501 / 6.42 = 0.62 gallons

Minimum Removal – 0.62 Gallons
Maximum Removal –0.67 Gallons

Note: All air calculations are based on one air analysis collected during the quarterly time period.



DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
S. Wade	08/02/10	T. McHugh	08/02/10	--	--	MPEs-Flow Diagram.dwg

File: N:\cad\CAD drawings\USACE\Ft-Hamilton\Gw-Figures\MPEs-Flow Dia-3.dwg
Plot Date/Time: Apr 20, 2011 – 1:36pm
Plotted By: stephen.Wade

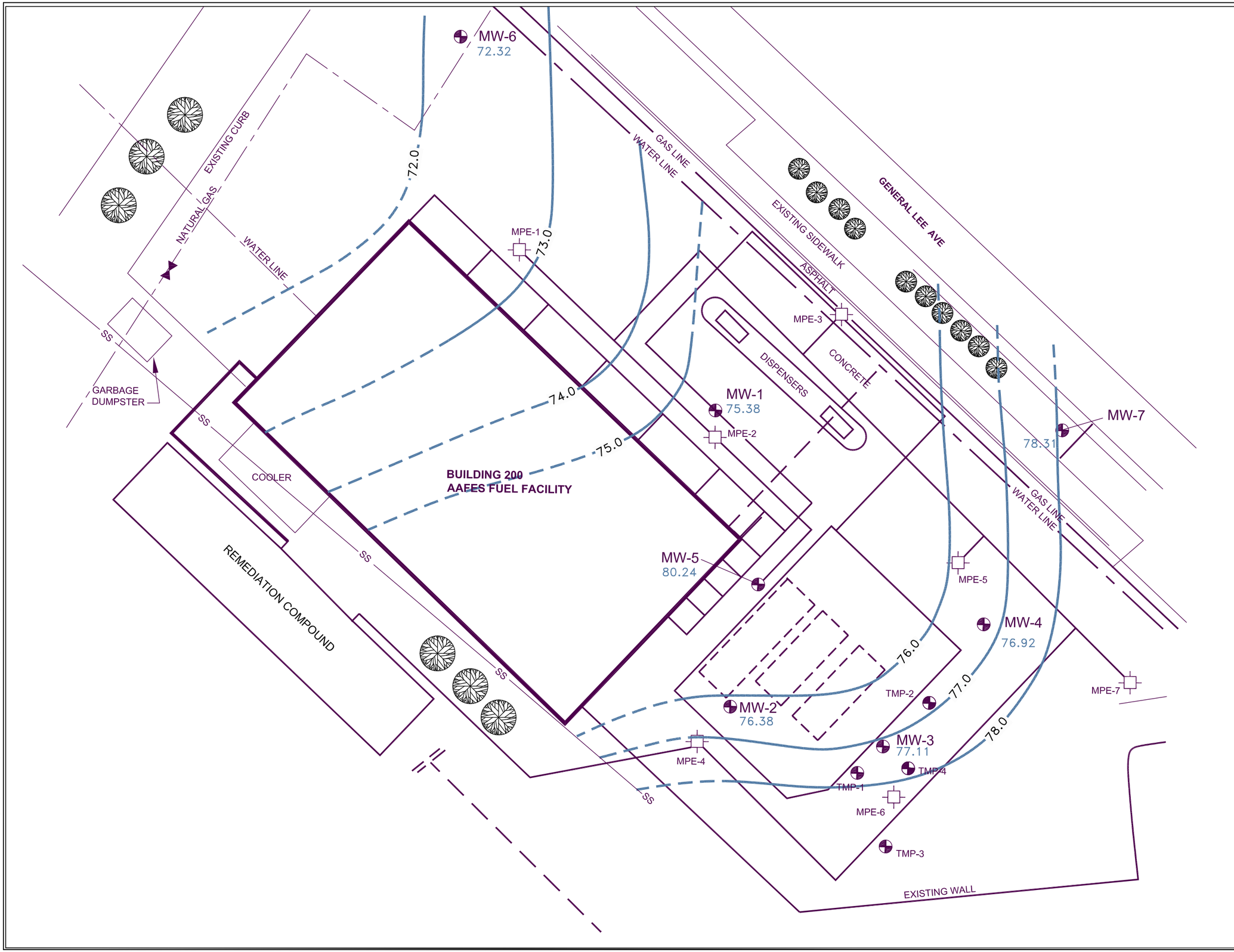
U.S. Army Corps of Engineers

Shaw Environmental, Inc.

FIGURE No. A1

P&ID SVE SYSTEM

AAFES STATION, FT. HAMILTON, NEW YORK



Legend

- Existing Monitoring L ocation
- MPE Extraction Well
  Underground Electric
- SS Sanitary Sewer Line
- MPE Header Pipe
- Buried Valve
- Underground Storage Tanks
- Groundwater Isopleth
  Contour Interval=1.0 feet
- Dashed where inferred

Note:
1.) MW-5 Data was not consistent with other well data due to applied vacuum. This data was not included in the ground water contour.

N

FIGURE 1

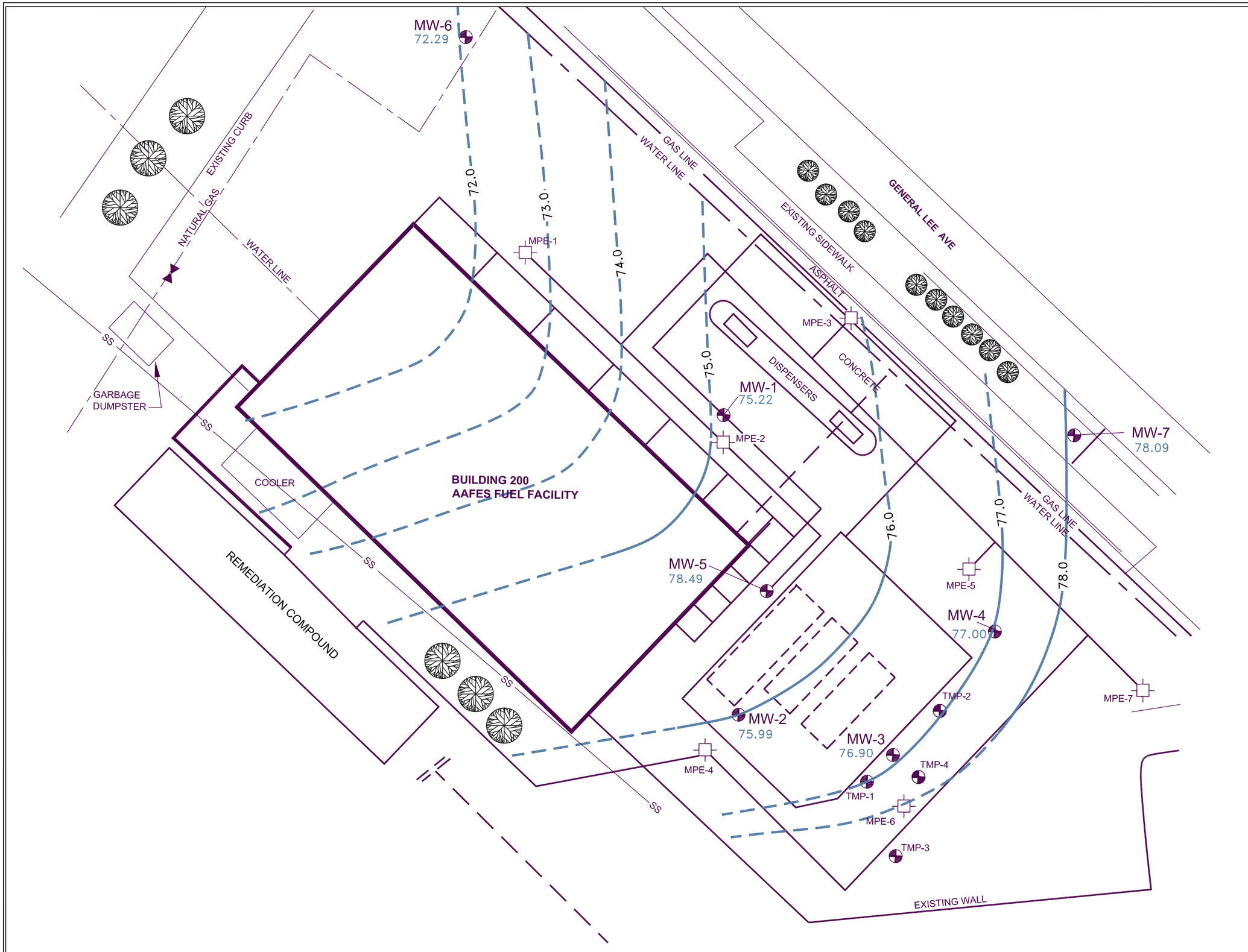
Groundwater Monitoring Wells Map
18 October 2010
AAFES Station, Fort Hamilton-New York

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Shaw Environmental, Inc.

PROJECT NO.	FILE NO.
8095-07A	FIGURE 4

File: N:\cad\CAD drawings\USAEC\Ft-Hamilton\Gw-Figures\Figure-1.dwg



Legend

- Existing Monitoring L ocation
- MPE Extraction Well Underground Electric
- SS Sanitary Sewer Line
- MPE Header Pipe
- Buried Valve
- Underground Storage Tanks
- Groundwater Isopleth Contour Interval=1.0 feet
- Dashed where inferred

Note:
1.) MW-5 Data was not consistent with other well data due to applied vacuum. This data was not included in the ground water contour.

N

FIGURE 2

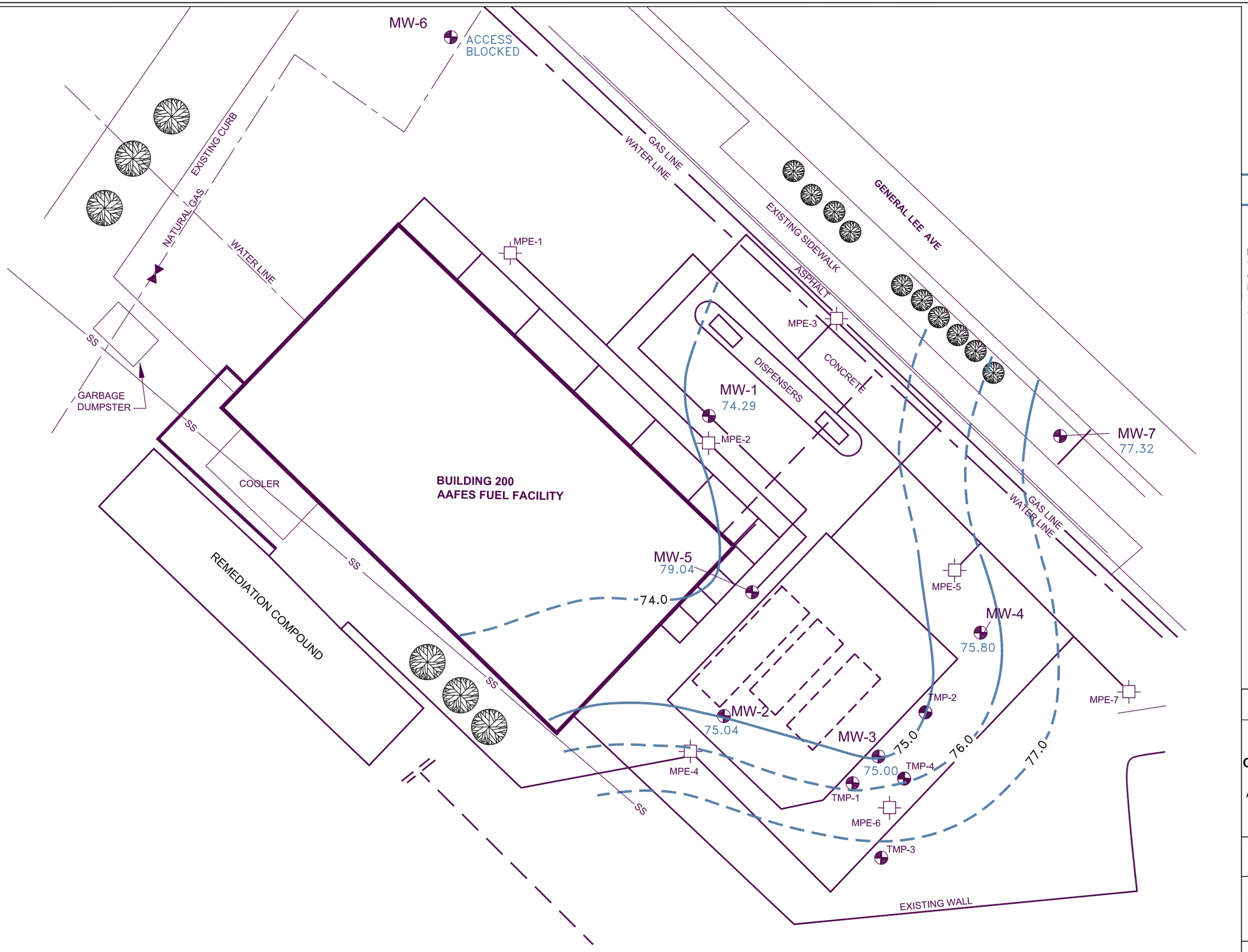
Groundwater Monitoring Wells Map
18 November 2010
AAFES Station, Fort Hamilton-New York

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Shaw Environmental, Inc.

PROJECT NO.	FILE NO.
8095-07A	FIGURE 4

File: N:\cad\CAD drawings\USACE\Ft-Hamilton\Gw-Figures\Figure-1.dwg



Legend

- Existing Monitoring L ocation
- MPE Extraction Well Underground Electric
- —SS— Sanitary Sewer Line
- MPE Header Pipe
- Buried Valve
- Underground Storage Tanks
- Groundwater Isopleth Contour Interval=1.0 feet
- Dashed where inferred

Note:
1.) MW-5 Data was not consistent with other well data due to applied vacuum. This data was not included in the ground water contour.

2.) Well #5 not included in contours.

N

FIGURE 3

Groundwater Monitoring Wells Map
14 December 2010
AAFES Station, Fort Hamilton-New York

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Shaw Environmental, Inc.

PROJECT NO.	FILE NO.
8095-07A	FIGURE 4

File: N:\cad\CAD drawings\USAEC\Ft-Hamilton\Gw-Figures\Figure-1.dwg

SECTION 2

ANALYTICAL DATA

Monthly Effluent NYCDEP Discharge Samples

Quarterly USACE Influent / Effluent VOC's & SVOC Samples

NYCDEP

Effluent Analytical Results

October 2010

(Extracted Water)

Rec 12/7

ANALYTICAL
LABORATORY SERVICES, INC.
Environmental ✦ Industrial Hygiene ✦ Field Services
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PROJECT TITLE: Shaw E & I
FORT HAMILTON-NY PROJECT

CLP-Like
DATA PACKAGE

Data Deliverable Group
SFM-020

SAMPLES COLLECTED

October 28, 2010

34 Dogwood Lane ✦ Middletown, PA 17057
TEL: 717-944-5541 ✦ FAX: 717-944-1430 ✦ 1-800-794-7709

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Blank Raw Data....599
PCBs by EPA 608 LCS Raw Data....620
PCBs by EPA 608 Extraction Logbook....626
PCBs by EPA 608 Analytical Logbook....628
Total Metals by EPA 200.7 Summary Forms....633
Total Metals by EPA 200.7 Raw Data....660
Total Metals by EPA 200.7 Digestion Logbook....760
Total Metals by EPA 200.7 Analytical Logbook....762
Total Mercury by EPA 245.1 Summary Forms....764
Total Mercury by EPA 245.1 Raw Data....779
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Total Solids by SM20 2540B Raw Data 900
pH by 4500 H-B Summary Forms 902
pH by 4500 H-B Raw Data 904

Chain of Custody Records

Report ID: 98734 06

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page of —
Courier: UPS
Tracking #: 12 724 914 20 1002 5656
COC# 98734 06

Co. Name: SHANGERP
Contact (Report to): Michelle Lobsiger
Phone: 973-770-5313
Address: 111 HOWARD BLVD, SUITE 110, MT. ARLINGTON, NJ 07856

Bill to (if different than Report to): SAME.
PO#:

Project Name/#:
ALSI Quote #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:
Email? Y michelle.lobsiger@shangerp.com
Fax? Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	*Matrix	Phosphorus, Chloride, TSS (300.0) (3500)	Chromium (SM 3500)	Cadmium, Copper, Lead, Mercury, Nickel, Zinc (200.7) (245.1)	VOCs (624) + Xylenes + MTBE	SVOCs (625)	PCB's (608)	Phenols (420.1)	CBOD (5210)	Total Nitrogen	non-Polar Material (1664)
1 PH-100810-US-WC	WATER EFFLUENT	10/29/10	1145	G	GW	1	1	1	2	-	-	-	-	-	2
2 PH-100810-US-WC COMP	WATER EFFLUENT COMP	10/29/10	1230	C	GW	-	-	1*	2	2	2	2	1	2	2
3 PH-100810-TB (624)	TRIP BLANK (624)	10/29/10	-	-	GW	-	-	-	2	-	-	-	-	-	-
4															
5 PLEASE INCLUDE Xylenes + MTBE on 624 Analysis															
6															
7															
8 * PLEASE Analyze for Cadmium Only.															

	Container Type	Container Size	Preservative
	P	1L	NONE
	P	500 mL	NONE
	P	250 mL	HNO3
	G	40 mL	HCl
	G	1L	NONE
	G	1L	NONE
	G	250 mL	H2SO4
	P	1L	NONE
	P	250 mL	NONE H2SO4
	G	1L	H2SO4

ANALYSES/METHOD REQUESTED — Enter Number of Containers Per Analysis

Receipt Information (completed by Sample Receiving)
Received by: Initials: MK
Cooler Temp: 1°
Therm. ID: 101338724
No. of Coolers:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volumes?	Circle appropriate Y or N.
	*	*	*	Y	
	*	*	*	*	*
	Y	*	Y	Y	Y

	Custody seals Present?	(If present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
	Y	*	Y	Y	Y

SAMPLED BY (Please Print): Perry McGrath
LOGGED BY (signature): DATE 10/29/10 TIME 1420
REVIEWED BY (signature): DATE 11/1/10 TIME 1500

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	10/29/10	1530	2 ALSI	10/29/10	1015
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] EDD Required [ ] If yes, format type:
SDWA Forms? yes / yes / yes / yes
State Samples Collected in? MD / NJ / NY / PA / Other
Enter ALSI Quote No.
DOD Criteria Required?

ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite
*Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
**Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 6/07

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PA 22-293 NJ PA010
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

Internal Chain of Custody
Work Order: 9873406

9873406001-A — G - CLEAR GLASS

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406001-B — G - CLEAR GLASS

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406001-C — COC - Chain of Custody

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406001-D — P - PLASTIC

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406001-E — A - AMBER GLASS

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406001-F — A - AMBER GLASS

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406001-G — G - CLEAR GLASS

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406001-H — P - PLASTIC

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406001-H1 — DPHG - Output Container - HG

Transfer Date	To Location	Transfer Reason	Transferred To
11-02-10 02:32	INORPREP-LAB		Pettis, Meghan

9873406001-H2 — DPHG - Output Container - HG

Transfer Date	To Location	Transfer Reason	Transferred To
11-03-10 06:07	INORPREP-LAB		Kauffman, Mr. Kevin M

9873406001-I — P - PLASTIC

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 15:24	RECEIVING	LOGIN	Swinehart, David E.

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Internal Chain of Custody
Work Order: 9873406

9873406001-I (cont) — **P - PLASTIC**

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 10:15	*Sample Received At Lab*		

9873406002-A — **G - CLEAR GLASS**

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406002-B — **G - CLEAR GLASS**

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406002-C — **A - AMBER GLASS**

Transfer Date	To Location	Transfer Reason	Transferred To
11-04-10 08:36	DEPLETED	3510 Extraction For 8270W	Coble, Mr. Craig
11-04-10 04:53	ORGPREP-LAB	3510/8270	Selgrath, Samantha A.
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406002-C1 — **OPOP - Output Container**

Transfer Date	To Location	Transfer Reason	Transferred To
11-04-10 21:35	GC/MS-LAB	8270 ANALYSIS	Simmons, Mr. Carl H
11-04-10 16:04	SVMS-FR32	Extract storage	Powroznik, Matt
11-04-10 04:53	ORGPREP-LAB	3510/8270	Selgrath, Samantha A.

9873406002-D — **A - AMBER GLASS**

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406002-E — **COC - Chain of Custody**

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406002-F — **P - PLASTIC**

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406002-F1 — **OPOP - Output Container - HG**

Transfer Date	To Location	Transfer Reason	Transferred To
11-03-10 06:07	INORPREP-LAB		Kauffman, Mr. Kevin M

9873406002-G — **A - AMBER GLASS**

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

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Internal Chain of Custody
Work Order: 9873406

9873406D02-G1 — DPOP - Output Container

Transfer Date	To Location	Transfer Reason	Transferred To
11-03-10 11:29	SVOL-FR12	STORAGE	Hinchliffe, Mr. Kevin J
11-03-10 11:19	GC/SV-LAB	608 PCB Analysis, Pest W SepFu	Hinchliffe, Mr. Kevin J
11-01-10 09:05	ORGPREP-LAB		Powroznik, Matt

9873406D02-H — A - AMBER GLASS

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406D02-I — P - PLASTIC

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406D02-K — A - AMBER GLASS

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406D02-L — A - AMBER GLASS

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406D02-M — P - PLASTIC

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406D02-M1 — DPWC - Output Container - Wet

Transfer Date	To Location	Transfer Reason	Transferred To
11-10-10 11:43	WETC-LAB		Koroney, Abdoul R

9873406D02-M2 — DPWC - Output Container - Wet

Transfer Date	To Location	Transfer Reason	Transferred To
11-12-10 09:56	WETC-LAB		Koroney, Abdoul R

9873406D03-A — G - CLEAR GLASS

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406D03-B — G - CLEAR GLASS

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

9873406D03-C — COC - Chain of Custody

Transfer Date	To Location	Transfer Reason	Transferred To

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Internal Chain of Custody
Work Order: 9873406

9873406003-C (cont) COC - Chain of Custody

Transfer Date	To Location	Transfer Reason	Transferred To
10-29-10 13:56	RECEIVING	LOGIN	Swinehart, David E.
10-29-10 10:15	*Sample Received At Lab*		

ALSI Laboratory Analysis Reports

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Certificate of Analysis

Project Name:	FORT HAMILTON-NY PROJECT	Workorder:	9873406
Purchase Order:	454617	Workorder ID:	SFM020|FT HAMILTON-NY PROJECT

Mr. Terence McHugh
Shaw E & I Inc.-Mt Arlington-NJ
111 Howard Blvd., Suite 110
Mount Arlington, NJ 07856

December 2, 2010

Dear Mr. McHugh,

Enclosed are the analytical results for samples received by the laboratory on Friday, October 29, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Denise Brooks (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Ms. Michelle Lobsiger

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder 9873406 SFM020|FT HAMILTON-NY PROJECT

Discard Date: 12/15/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9873406001	FH-102810-NS-WE	Water	10/28/10 11:45	10/29/10 10:15	Terence McHugh
9873406002	FH-102810-NS-WE Comp	Water	10/28/10 12:30	10/29/10 10:15	Terence McHugh
9873406003	FH-102810-TB	Water	10/28/10 00:00	10/29/10 10:15	Terence McHugh

Workorder Comments:

Notes

- -- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
DL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder 9873406 SFM020|FT HAMILTON-NY PROJECT

Lab ID: **9873406001** Date Collected: 10/28/2010 11:45 Matrix: Water
Sample ID: **FH-102810-NS-WE** Date Received: 10/29/2010 10:15

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acrolein	30.0 U	ug/L		30.0	2.4	EPA 624			11/8/10 12:50	MES	A
Acrylonitrile	5.0 U	ug/L		5.0	0.89	EPA 624			11/8/10 12:50	MES	A
Benzene	1.0 U	ug/L		1.0	0.16	EPA 624			11/8/10 12:50	MES	A
Bromodichloromethane	1.0 U	ug/L		1.0	0.13	EPA 624			11/8/10 12:50	MES	A
Bromoform	2.0 U	ug/L		2.0	0.21	EPA 624			11/8/10 12:50	MES	A
Bromomethane	2.0 U	ug/L		2.0	0.27	EPA 624			11/8/10 12:50	MES	A
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.24	EPA 624			11/8/10 12:50	MES	A
Chlorobenzene	1.0 U	ug/L		1.0	0.11	EPA 624			11/8/10 12:50	MES	A
Chlorodibromomethane	1.0 U	ug/L		1.0	0.22	EPA 624			11/8/10 12:50	MES	A
Chloroethane	1.0 U	ug/L		1.0	0.24	EPA 624			11/8/10 12:50	MES	A
2-Chloroethylvinyl ether	2.0 U	ug/L		2.0	0.28	EPA 624			11/8/10 12:50	MES	A
Chloroform	1.0 U	ug/L		1.0	0.15	EPA 624			11/8/10 12:50	MES	A
Chloromethane	1.0 U	ug/L		1.0	0.25	EPA 624			11/8/10 12:50	MES	A
1,2-Dichlorobenzene	1.0 U	ug/L		1.0	0.20	EPA 624			11/8/10 12:50	MES	A
1,3-Dichlorobenzene	1.0 U	ug/L		1.0	0.14	EPA 624			11/8/10 12:50	MES	A
1,4-Dichlorobenzene	1.0 U	ug/L		1.0	0.15	EPA 624			11/8/10 12:50	MES	A
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.19	EPA 624			11/8/10 12:50	MES	A
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.22	EPA 624			11/8/10 12:50	MES	A
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.17	EPA 624			11/8/10 12:50	MES	A
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.12	EPA 624			11/8/10 12:50	MES	A
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.24	EPA 624			11/8/10 12:50	MES	A
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.12	EPA 624			11/8/10 12:50	MES	A
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.14	EPA 624			11/8/10 12:50	MES	A
1,3-Dichloropropene, Total	1.0 U	ug/L		1.0	0.19	EPA 624			11/8/10 12:50	MES	A
Ethylbenzene	1.0 U	ug/L		1.0	0.16	EPA 624			11/8/10 12:50	MES	A
Methyl t-Butyl Ether	1.0 U	ug/L		1.0	0.11	EPA 624			11/8/10 12:50	MES	A
Methylene Chloride	1.0 U	ug/L		1.0	0.32	EPA 624			11/8/10 12:50	MES	A
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.22	EPA 624			11/8/10 12:50	MES	A
Tetrachloroethene	1.0 U	ug/L		1.0	0.26	EPA 624			11/8/10 12:50	MES	A
Toluene	0.23J	ug/L		1.0	0.12	EPA 624			11/8/10 12:50	MES	A
Total Xylenes	3.0 U	ug/L		3.0	0.43	EPA 624			11/8/10 12:50	MES	A
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.27	EPA 624			11/8/10 12:50	MES	A
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.30	EPA 624			11/8/10 12:50	MES	A
Trichloroethene	1.0 U	ug/L		1.0	0.21	EPA 624			11/8/10 12:50	MES	A
Trichlorofluoromethane	1.0 U	ug/L		1.0	0.21	EPA 624			11/8/10 12:50	MES	A
Vinyl Chloride	2.0 U	ug/L		2.0	0.24	EPA 624			11/8/10 12:50	MES	A

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	111	%		72-142	EPA 624			11/8/10 12:50	MES	A
4-Bromofluorobenzene (S)	106	%		73-119	EPA 624			11/8/10 12:50	MES	A
Dibromofluoromethane (S)	108	%		74-132	EPA 624			11/8/10 12:50	MES	A
Toluene-d8 (S)	127	%		75-133	EPA 624			11/8/10 12:50	MES	A

M S											
Cadmium, Total	0.0010 U	mg/L		0.0010	0.00033	EPA 200.7	11/3/10	KMK	11/4/10 16:00	JWK	H2
Copper, Total	0.0069	mg/L		0.0050	0.0016	EPA 200.7	11/3/10	KMK	11/4/10 16:00	JWK	H2

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ANALYTICAL RESULTS

Workorder 9873406 SFM020|FT HAMILTON-NY PROJECT

Lab ID: **9873406001** Date Collected: 10/28/2010 11:45 Matrix: Water

Sample ID: **FH-102810-NS-WE** Date Received: 10/29/2010 10:15

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Lead, Total	0.0030 U	mg/L	1	0.0030	0.0010	EPA 200.7	11/3/10	KMK	11/4/10 16:00	JWK	H2
Mercury, Total (Low-level)	0.00020 U	mg/L		0.00020	0.000060	EPA 245.1	11/3/10	MNP	11/3/10 11:07	MNP	H1
Nickel, Total	0.010 U	mg/L		0.010	0.0033	EPA 200.7	11/3/10	KMK	11/4/10 16:00	JWK	H2
Zinc, Total	0.011	mg/L		0.010	0.0033	EPA 200.7	11/3/10	KMK	11/4/10 16:00	JWK	H2
WET CHEMISTRY											
Chloride	110	mg/L		2.0	0.035	EPA 300			10/30/10 08:00	J1H	D
Flashpoint/Ignitability	See comment		2,3			SW-846 1010			11/11/10 06:15	SDL	G
Hexavalent Chromium	0.010 U	mg/L		0.010		SM20-3500-Cr D			10/29/10 10:39	NJA	D
Oil/Grease Hexane Extractable	1.7J	mg/L		2.0	0.5	EPA 1664A			11/11/10 08:00	NJA	E
Oil/Grease Silica Gel Treated	2.0 U	mg/L		2.0	0.5	EPA 1664A			11/11/10 08:00	NJA	E
pH	8.72	pH_Units				SM20-4500-H B			10/29/10 10:46	ARK	D
Total Solids	596	mg/L		5	5	SM20-2540 B			11/2/10 13:50	KAK	D
Total Suspended Solids	5 U	mg/L		5	5	SM20-2540 D			10/31/10 16:05	LJF	D

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9873406 SFM020|FT HAMILTON-NY PROJECT

Lab ID: **9873406002** Date Collected: 10/28/2010 12:30 Matrix: Water

Sample ID: **FH-102810-NS-WE Comp** Date Received: 10/29/2010 10:15

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acrolein	30.0 U	ug/L		30.0	2.4	EPA 624			11/8/10 13:22	MES	A
Acrylonitrile	5.0 U	ug/L		5.0	0.89	EPA 624			11/8/10 13:22	MES	A
Benzene	1.0 U	ug/L		1.0	0.16	EPA 624			11/8/10 13:22	MES	A
Bromodichloromethane	1.0 U	ug/L		1.0	0.13	EPA 624			11/8/10 13:22	MES	A
Bromoform	2.0 U	ug/L		2.0	0.21	EPA 624			11/8/10 13:22	MES	A
Bromomethane	2.0 U	ug/L		2.0	0.27	EPA 624			11/8/10 13:22	MES	A
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.24	EPA 624			11/8/10 13:22	MES	A
Chlorobenzene	1.0 U	ug/L		1.0	0.11	EPA 624			11/8/10 13:22	MES	A
Chlorodibromomethane	1.0 U	ug/L		1.0	0.22	EPA 624			11/8/10 13:22	MES	A
Chloroethane	1.0 U	ug/L		1.0	0.24	EPA 624			11/8/10 13:22	MES	A
2-Chloroethylvinyl ether	2.0 U	ug/L		2.0	0.28	EPA 624			11/8/10 13:22	MES	A
Chloroform	1.0 U	ug/L		1.0	0.15	EPA 624			11/8/10 13:22	MES	A
Chloromethane	1.0 U	ug/L		1.0	0.25	EPA 624			11/8/10 13:22	MES	A
1,2-Dichlorobenzene	1.0 U	ug/L		1.0	0.20	EPA 624			11/8/10 13:22	MES	A
1,3-Dichlorobenzene	1.0 U	ug/L		1.0	0.14	EPA 624			11/8/10 13:22	MES	A
1,4-Dichlorobenzene	1.0 U	ug/L		1.0	0.15	EPA 624			11/8/10 13:22	MES	A
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.19	EPA 624			11/8/10 13:22	MES	A
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.22	EPA 624			11/8/10 13:22	MES	A
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.17	EPA 624			11/8/10 13:22	MES	A
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.12	EPA 624			11/8/10 13:22	MES	A
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.24	EPA 624			11/8/10 13:22	MES	A
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.12	EPA 624			11/8/10 13:22	MES	A
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.14	EPA 624			11/8/10 13:22	MES	A
1,3-Dichloropropene, Total	1.0 U	ug/L		1.0	0.19	EPA 624			11/8/10 13:22	MES	A
Ethylbenzene	1.0 U	ug/L		1.0	0.16	EPA 624			11/8/10 13:22	MES	A
Methyl t-Butyl Ether	1.0 U	ug/L		1.0	0.11	EPA 624			11/8/10 13:22	MES	A
Methylene Chloride	1.0 U	ug/L		1.0	0.32	EPA 624			11/8/10 13:22	MES	A
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.22	EPA 624			11/8/10 13:22	MES	A
Tetrachloroethene	1.0 U	ug/L		1.0	0.26	EPA 624			11/8/10 13:22	MES	A
Toluene	1.0 U	ug/L		1.0	0.12	EPA 624			11/8/10 13:22	MES	A
Total Xylenes	3.0 U	ug/L		3.0	0.43	EPA 624			11/8/10 13:22	MES	A
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.27	EPA 624			11/8/10 13:22	MES	A
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.30	EPA 624			11/8/10 13:22	MES	A
Trichloroethene	1.0 U	ug/L		1.0	0.21	EPA 624			11/8/10 13:22	MES	A
Trichlorofluoromethane	1.0 U	ug/L		1.0	0.21	EPA 624			11/8/10 13:22	MES	A
Vinyl Chloride	2.0 U	ug/L		2.0	0.24	EPA 624			11/8/10 13:22	MES	A

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	115	%		72-142	EPA 624			11/8/10 13:22	MES	A
4-Bromofluorobenzene (S)	110	%		73-119	EPA 624			11/8/10 13:22	MES	A
Toluene-d8 (S)	132	%		75-133	EPA 624			11/8/10 13:22	MES	A
Dibromofluoromethane (S)	106	%		74-132	EPA 624			11/8/10 13:22	MES	A

S' OLATILES											
Acenaphthene	1.4 U	ug/L		1.4	0.49	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Acenaphthylene	1.4 U	ug/L		1.4	0.33	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G

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ANALYTICAL RESULTS

Workorder 9873406 SFM020|FT HAMILTON-NY PROJECT

Lab ID: **9873406002** Date Collected: 10/28/2010 12:30 Matrix: Water

Sample ID: **FH-102810-NS-WE Comp** Date Received: 10/29/2010 10:15

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Anthracene	1.4 U	ug/L		1.4	0.42	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Benzidine	28.8 U	ug/L		28.8	9.6	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Benzo(a)anthracene	1.4 U	ug/L		1.4	0.31	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Benzo(a)pyrene	1.4 U	ug/L		1.4	0.32	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Benzo(b)fluoranthene	1.4 U	ug/L		1.4	0.33	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Benzo(g,h,i)perylene	1.4 U	ug/L		1.4	0.41	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Benzo(k)fluoranthene	1.4 U	ug/L		1.4	0.37	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
4-Bromophenyl-phenylether	2.9 U	ug/L		2.9	0.38	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Butylbenzylphthalate	2.9 U	ug/L		2.9	0.45	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
4-Chloro-3-methylphenol	7.7 U	ug/L		7.7	0.90	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
bis(2-Chloroethoxy)methane	2.9 U	ug/L		2.9	0.77	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
bis(2-Chloroethyl)ether	2.9 U	ug/L		2.9	0.48	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
bis(2-Chloroisopropyl)ether	2.9 U	ug/L		2.9	0.60	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
2-Chloronaphthalene	2.9 U	ug/L		2.9	0.38	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
2-Chlorophenol	7.7 U	ug/L		7.7	0.81	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
4-Chlorophenyl-phenylether	2.9 U	ug/L		2.9	0.52	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
sene	1.4 U	ug/L		1.4	0.32	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Di-n-Butylphthalate	2.9 U	ug/L		2.9	0.42	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Di-n-Octylphthalate	7.7 U	ug/L		7.7	0.54	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Dibenzo(a,h)anthracene	1.9 U	ug/L		1.9	0.90	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
3,3-Dichlorobenzidine	15.4 U	ug/L		15.4	2.6	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
2,4-Dichlorophenol	7.7 U	ug/L		7.7	0.59	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Diethylphthalate	7.7 U	ug/L		7.7	0.32	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
2,4-Dimethylphenol	7.7 U	ug/L		7.7	2.0	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Dimethylphthalate	7.7 U	ug/L		7.7	0.52	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
2,4-Dinitrophenol	15.4 U	ug/L		15.4	3.5	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
2,4-Dinitrotoluene	2.9 U	ug/L		2.9	0.38	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
2,6-Dinitrotoluene	2.9 U	ug/L		2.9	0.34	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
1,2-Diphenylhydrazine	2.9 U	ug/L		2.9	0.57	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
bis(2-Ethylhexyl)phthalate	2.9 U	ug/L		2.9	0.56	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Fluoranthene	1.4 U	ug/L		1.4	0.34	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Fluorene	1.4 U	ug/L		1.4	0.38	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Hexachlorobenzene	2.9 U	ug/L		2.9	0.52	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Hexachlorobutadiene	2.9 U	ug/L		2.9	0.48	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Hexachlorocyclopentadiene	7.7 U	ug/L		7.7	1.2	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Hexachloroethane	2.9 U	ug/L		2.9	0.84	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Indeno(1,2,3-cd)pyrene	1.4 U	ug/L		1.4	0.25	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Isophorone	2.9 U	ug/L		2.9	0.59	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
2-Methyl-4,6-dinitrophenol	7.7 U	ug/L		7.7	2.3	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Naphthalene	1.4 U	ug/L		1.4	0.44	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Nitrobenzene	2.9 U	ug/L		2.9	0.66	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
2-Nitrophenol	7.7 U	ug/L		7.7	1.4	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
4-Nitrophenol	7.7 U	ug/L		7.7	2.9	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
N-Nitrosodimethylamine	2.9 U	ug/L		2.9	1.3	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
N oso-di-n-propylamine	2.9 U	ug/L		2.9	0.54	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
N osodiphenylamine	2.9 U	ug/L		2.9	0.80	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Pentachlorophenol	15.4 U	ug/L		15.4	2.5	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G

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ANALYTICAL RESULTS

Workorder 9873406 SFM020|FT HAMILTON-NY PROJECT

Lab ID: **9873406002** Date Collected: 10/28/2010 12:30 Matrix: Water

Sample ID: **FH-102810-NS-WE Comp** Date Received: 10/29/2010 10:15

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Phenanthrene	1.4 U	ug/L		1.4	0.32	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Phenol	7.7 U	ug/L		7.7	0.69	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Pyrene	1.4 U	ug/L		1.4	0.49	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
1,2,4-Trichlorobenzene	2.9 U	ug/L		2.9	0.62	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
2,4,6-Trichlorophenol	7.7 U	ug/L		7.7	0.53	EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	74.3	%		38-134		EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
2-Fluorobiphenyl (S)	67.1	%		37-113		EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Nitrobenzene-d5 (S)	67.1	%		37-124		EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Phenol-d5 (S)	27.1	%		11-53		EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Terphenyl-d14 (S)	81	%		33-125		EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
2-Fluorophenol (S)	41.5	%		17-73		EPA 625	11/4/10	EGO	11/4/10 22:57	CGS	G
Pesticides and PCBs											
Aroclor-1016	0.48 U	ug/L		0.48	0.21	EPA 608	11/1/10	EGO	11/3/10 20:13	KJH	G1
Aroclor-1221	0.48 U	ug/L		0.48	0.31	EPA 608	11/1/10	EGO	11/3/10 20:13	KJH	G1
Aroclor-1232	0.48 U	ug/L		0.48	0.39	EPA 608	11/1/10	EGO	11/3/10 20:13	KJH	G1
Aroclor-1242	0.48 U	ug/L		0.48	0.23	EPA 608	11/1/10	EGO	11/3/10 20:13	KJH	G1
Aroclor-1248	0.48 U	ug/L		0.48	0.18	EPA 608	11/1/10	EGO	11/3/10 20:13	KJH	G1
Aroclor-1254	0.48 U	ug/L		0.48	0.30	EPA 608	11/1/10	EGO	11/3/10 20:13	KJH	G1
Aroclor-1260	0.48 U	ug/L		0.48	0.21	EPA 608	11/1/10	EGO	11/3/10 20:13	KJH	G1
Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyl (S)	60.2	%		30-150		EPA 608	11/1/10	EGO	11/3/10 20:13	KJH	G1
Tetrachloro-m-xylene (S)	84.6	%		36-112		EPA 608	11/1/10	EGO	11/3/10 20:13	KJH	G1
WET CHEMISTRY											
Carbonaceous BOD	2.0 U	mg/L		2.0	0.9	SM20-5210 B			10/30/10 02:43	JEP	I
Nitrate-N	0.64	mg/L		0.20	0.0080	EPA 300			10/30/10 08:26	J1H	I
Phenolics	0.01 U	mg/L		0.01	0.004	EPA 420.4	11/2/10	MLM	11/3/10 05:50	KRK	K
Total Kjeldahl Nitrogen	0.7J	mg/L		1.0	0.3	SM20-4500-N C	11/11/10	ARK	11/15/10 10:00	NJA	M2
Total Nitrogen	1.34	mg/L		1.00		Calculation			11/16/10 14:40	AH	M
METALS											
Cadmium, Total	0.0010 U	mg/L		0.0010	0.00033	EPA 200.7	11/3/10	KMK	11/4/10 16:05	JWK	F1

Sample Comments:

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ANALYTICAL RESULTS

Workorder 9873406 SFM020|FT HAMILTON-NY PROJECT

Lab ID:	**9873406002**	Date Collected:	10/28/2010 12:30	Matrix:	Water
Sample ID:	**FH-102810-NS-WE Comp**	Date Received:	10/29/2010 10:15		

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9873406 SFM020|FT HAMILTON-NY PROJECT

Lab ID: **9873406003** Date Collected: 10/28/2010 00:00 Matrix: Water
Sample ID: **FH-102810-TB** Date Received: 10/29/2010 10:15

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	10.0 U	ug/L		10.0	3.1	SW846 8260B			11/3/10 19:24	DJB	A
Benzene	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/3/10 19:24	DJB	A
Bromochloromethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			11/3/10 19:24	DJB	A
Bromodichloromethane	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/3/10 19:24	DJB	A
Bromoform	1.0 U	ug/L		1.0	0.28	SW846 8260B			11/3/10 19:24	DJB	A
Bromomethane	1.0 U	ug/L		1.0	0.24	SW846 8260B			11/3/10 19:24	DJB	A
2-Butanone	10.0 U	ug/L		10.0	2.1	SW846 8260B			11/3/10 19:24	DJB	A
Carbon Disulfide	1.0 U	ug/L		1.0	0.12	SW846 8260B			11/3/10 19:24	DJB	A
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.25	SW846 8260B			11/3/10 19:24	DJB	A
Chlorobenzene	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/3/10 19:24	DJB	A
Chlorodibromomethane	1.0 U	ug/L		1.0	0.26	SW846 8260B			11/3/10 19:24	DJB	A
Chloroethane	1.0 U	ug/L		1.0	0.19	SW846 8260B			11/3/10 19:24	DJB	A
Chloroform	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/3/10 19:24	DJB	A
Chloromethane	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/3/10 19:24	DJB	A
1,2-Dibromo-3-opropane	7.0 U	ug/L		7.0	0.96	SW846 8260B			11/3/10 19:24	DJB	A
1,2-Dibromoethane	1.0 U	ug/L		1.0	0.30	SW846 8260B			11/3/10 19:24	DJB	A
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.15	SW846 8260B			11/3/10 19:24	DJB	A
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			11/3/10 19:24	DJB	A
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.17	SW846 8260B			11/3/10 19:24	DJB	A
cis-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.17	SW846 8260B			11/3/10 19:24	DJB	A
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.20	SW846 8260B			11/3/10 19:24	DJB	A
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/3/10 19:24	DJB	A
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.18	SW846 8260B			11/3/10 19:24	DJB	A
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.14	SW846 8260B			11/3/10 19:24	DJB	A
Ethylbenzene	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/3/10 19:24	DJB	A
2-Hexanone	5.0 U	ug/L		5.0	0.78	SW846 8260B			11/3/10 19:24	DJB	A
Methyl t-Butyl Ether	1.0 U	ug/L		1.0	0.18	SW846 8260B			11/3/10 19:24	DJB	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	ug/L		5.0	0.41	SW846 8260B			11/3/10 19:24	DJB	A
Methylene Chloride	0.62J	ug/L		1.0	0.32	SW846 8260B			11/3/10 19:24	DJB	A
Styrene	1.0 U	ug/L		1.0	0.10	SW846 8260B			11/3/10 19:24	DJB	A
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.22	SW846 8260B			11/3/10 19:24	DJB	A
Tetrachloroethene	1.0 U	ug/L		1.0	0.28	SW846 8260B			11/3/10 19:24	DJB	A
Toluene	1.0 U	ug/L		1.0	0.19	SW846 8260B			11/3/10 19:24	DJB	A
Total Xylenes	3.0 U	ug/L		3.0	0.61	SW846 8260B			11/3/10 19:24	DJB	A
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.29	SW846 8260B			11/3/10 19:24	DJB	A
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.29	SW846 8260B			11/3/10 19:24	DJB	A
Trichloroethene	1.0 U	ug/L		1.0	0.33	SW846 8260B			11/3/10 19:24	DJB	A
Vinyl Chloride	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/3/10 19:24	DJB	A
o-Xylene	1.0 U	ug/L		1.0	0.24	SW846 8260B			11/3/10 19:24	DJB	A
mp-Xylene	2.0 U	ug/L		2.0	0.51	SW846 8260B			11/3/10 19:24	DJB	A

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	76.5	%		62-133	SW846 8260B			11/3/10 19:24	DJB	A
4-Bromofluorobenzene (S)	108	%		79-114	SW846 8260B			11/3/10 19:24	DJB	A
Dibromofluoromethane (S)	79.8	%		78-116	SW846 8260B			11/3/10 19:24	DJB	A

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ANALYTICAL RESULTS

Workorder 9873406 SFM020|FT HAMILTON-NY PROJECT

Lab ID: **9873406003** Date Collected: 10/28/2010 00:00 Matrix: Water
Sample ID: **FH-102810-TB** Date Received: 10/29/2010 10:15

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene-d8 (S)	93.7	%		76-127		SW846 8260B			11/3/10 19:24	DJB	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder 9873406 SFM020|FT HAMILTON-NY PROJECT

PARAMETER QUALIFIERS\FLAGS

[1] One of the calibration blanks associated with this analyte was positive for lead. The lead concentration in the sample was below our reporting limit. For this reason, the sample reported with a comment. 11/08/10 JWK

[2] According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)

[3] Sample did not flash up to 200 degrees F.

Case Narrative

Analytical Laboratory Services Inc.
Analytical Narrative
Shaw E & I
SFM-020

Sample Management

This report contains the results of the analysis of three (3) water samples collected on October 28, 2010. Analytical results and quality control information are summarized in this data package.

Sample Receipt

The samples arrived at ALSI via courier on October 29, 2010. Upon receipt, the samples were inspected and compared to the enclosed chain of custody. The samples were assigned a unique identification number (see the Certificate of Analysis). The sample information was entered into the computer system and the samples were released for analysis.

Volatile Organics by EPA Method 624

Sample Handling. Two (2) water samples were analyzed on MS03 by EPA Method 624 for volatile organic compounds. All analyses were performed within the holding time.

Initial Calibrations. A six-point calibration was analyzed on MS03 on November 8, 2010. This calibration was used to quantitate the samples, blank and spikes. The initial calibration met method criteria for all target analytes.

Blanks. One method blank, identified as 769640, was analyzed with the samples in this deliverable group. 1,4-Dichlorobenzene was detected at 0.27J µg/L. No other target analytes were detected in the method blank.

Surrogates. A four-component surrogate mix was added to each sample, blank and spike. All surrogate recoveries were recovered within control limits in the samples, blanks and spikes.

Internal Standards. A three-component internal standard mix was added to the samples, blank and spike. The internal standards met method criteria in the samples, blanks and spikes.

Spiked Blanks. One spiked blank, identified as 769641, was analyzed with the samples in this deliverable group. All target analytes were recovered within control limits in the spiked blank.

Volatile Organics by SW-846 Method 8260

Sample Handling. One (1) water sample was analyzed on MS19 by SW-846 Method 8260 volatile organic compounds. All analyses were performed within holding time.

Initial Calibrations. A six-point calibration was analyzed on MS19 on November 1, 2010. The calibration was used to quantitate the sample, blank and spikes. The initial calibration met method criteria for all target analytes.

Continuing Calibration Checks. Calibration check standards were properly analyzed each day the samples were analyzed. The continuing calibration check standards met method criteria for all target analytes.

Blanks. One method blank, identified 768026, was analyzed with the samples in this deliverable group. No target analytes were detected in the method blank.

Surrogates. A four-component surrogate mix was added to each sample, blank and spike. All surrogate recoveries were within control limits in the samples, blank and spikes, except as follows:

- In LCS 768027, the recovery result for surrogate 4-bromofluorobenzene was above control limits.

Internal Standards. A three-component internal standard mix was added to each sample, blank and spike. All internal standards met method criteria in the samples, blank and spikes.

Spiked Blanks. One spiked blank, identified as 768027, was analyzed with the samples in this deliverable group. All other target analytes were recovered within control limits in the spiked blank.

Semi-volatile Organic Compounds by EPA Method 625

Sample Handling. One (1) water sample was extracted and analyzed by EPA method 625 for semi-volatile organic compounds. The sample, extraction blank and blank spike were analyzed on MS14. All extractions and analyses were performed within holding time.

Initial Calibrations. An eight-point calibration for EPA Methods 8270/625 was analyzed on MS14 on November 2, 2010. This calibration was used for the analysis of the sample, blank and blank spike. The initial calibration met EPA Method 625 criteria for all target analytes.

Calibration Checks. Calibration check standards were properly analyzed each day the extracts were analyzed. The continuing calibration check standard met EPA Method 625 criteria for all target analytes.

Blanks. A method blank, identified as 777793, was extracted and analyzed with the samples in this deliverable group. No target analytes were detected in the method blank.

Surrogates. A six-component surrogate mix was added to each sample, blank and spike. All surrogate recoveries were recovered within control limits in the samples, blank and spikes.

Internal Standards. A six-component internal standard mix was added to each sample, blank and spike. All internal standards met method criteria in the sample, blank and spikes.

Blank Spikes. A blank spike, identified as 777794, was extracted and analyzed with the samples in this deliverable group. All target analytes were recovered within control limits in the spiked blank.

Polychlorinated Biphenyls as Aroclors by EPA Method 608

Sample Handling. One (1) water sample was extracted and analyzed for polychlorinated biphenyls as Aroclor by EPA Method 608. The sample extraction and analysis was performed within the holding time associated with the method.

Reporting. The sample was analyzed using dual-column instrumentation. The results from the primary column (RTX-440) were evaluated for quantitative purposes and the results from secondary column (RTX-CLPEST-2) were evaluated for qualitative purposes. Raw data from both columns are provided for reviewing purposes.

Initial Calibrations. The initial calibration was performed on GC05 on October 21, 2010. After the initial calibration was conducted, it was verified with an initial calibration verification standard prepared from a lot of material independent of that used to calibrate the instrument. Standards used for the second source initial calibration verification consisted of the appropriate Aroclor(s) each at 1.0 ng/µL. All results met method criteria for all Aroclors.

Calibration verification. The initial calibration was verified prior to sample analysis and every 12 hours, thereafter with a continuing calibration verification standard. (CCV). The average peak concentration of each Aroclor was in control.

Surrogates. A two-component surrogate mix was added to each sample, blank and spike. All surrogate recoveries were within control limits.

Blanks. One method blank, identified as 766883, was extracted and analyzed with the samples in this group. Polychlorinated biphenyls as Aroclors were not detected in the method blank.

Spiked Blanks. A spiked blank, identified as 766884, was extracted and analyzed with the sample in this deliverable group. Aroclors were recovered within control limits in the spiked blank.

Total Metals by EPA Method 200.7

Sample handling. Two (2) water samples were hot-block digested and analyzed for total metals on the ThermoFisher ICP6500 using EPA Method 200.7. The samples were analyzed within the six-month holding time established for the method.

Calibration. The day that the samples were analyzed, an initial four-point calibration was properly established and verified through the analysis of a second source calibration verification standard (QCS), an initial calibration blank (S0), an initial performance check (IPC), a reporting limit standard, an interference check standard (ICSA), and an additional interference check standard (ICSAB). Calibration checks were analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibration and check standards were within the control limits for all analytes relevant to this data package.

Blanks. Reagent (calibration) blanks were analyzed following the calibration, after every ten samples, and at the conclusion of the run. The continuing calibration blank run at 15:45 was detectable for cadmium, lead, and zinc at concentrations above the MDL, but below the PQL. The detections are noted with a j-flag on Form 3a. No other Metals were detected in the reagent blanks. A method blank, identified as 767783-MB, was digested and analyzed with the samples in this deliverable group. Metals were not detected in the method blank.

Laboratory Control Sample. A laboratory control sample, identified as 767784-LCS was digested and analyzed with the samples in this deliverable group. The LCS spike recoveries were within the control limits of 85-115% for all metals.

Spikes. A matrix spike and matrix spike duplicate identified as 767785 and 767786, were digested and analyzed on sample 9873406002 (FH-102810-NS-WE-Comp), in this deliverable group. The MS/MSD recoveries and their RPDs were all within the method control limits.

A matrix spike identified as 767787, was also digested and analyzed on batch MS sample 9873486001, with this deliverable group. The MS recoveries were all within the method control limits.

Total Mercury by EPA Method 245.1

Sample handling. One (1) water sample was analyzed for total mercury on the CETAC Hg Analyzer, using EPA method 245.1. The sample was digested and analyzed within the 28-day holding time established for the method.

Calibration. The day that the sample was analyzed, an initial five-point calibration was properly established and verified through the analysis of a second source calibration verification standard. Calibration check standards were analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibration and check standards were within method control limits.

Blanks. Reagent (calibration) blanks were analyzed following the calibration, after every ten samples, and at the conclusion of the run. Mercury was not detected in the reagent blanks. A method blank, identified as 767250-MB, was digested and analyzed with the sample in this deliverable group. Mercury was not detected in the method blank.

Laboratory Control Samples. A laboratory control samples (LCS), identified as 767251-LCS, was digested and analyzed for total mercury with the sample in this deliverable group. The laboratory control sample was recovered within the control limits for this method.

Spikes. A matrix spike/matrix spike duplicate identified as 767252 and 767253, were digested and analyzed on batch MS/MSD sample 9873431001, with this deliverable group. The mercury MS/MSD recoveries and their RPD were with method control limits.

Anions by EPA 300.0

Sample handling. One (1) water sample was analyzed for chloride and one (1) water sample was analyzed for nitrate by EPA Method 300.0. The samples were analyzed within the method recommended holding time for each analyte.

Calibration. Initial seven-point calibrations, identified as Method A (high range) and Method L (low range), were properly established for IC#3 on 10/30/10. The calibrations were verified by initial calibration verification standards and continuing calibration verification standards on the day of analysis. The calibration verification recoveries were within the QC limits of 90-110%.

Blanks. Initial and continuing blanks were analyzed with the samples. Chloride was not detected above the reporting limit in the blanks.

Laboratory Control Samples. Laboratory control samples, identified as LCS and SSL, were analyzed initially and every 20 samples. Recoveries were within the QC limits of 90-110%.

Carbonaceous Biochemical Oxygen Demand by SM 5210B

Sample handling. One (1) water sample was analyzed for carbonaceous biochemical oxygen demand by Standard Method 5210B. The sample was analyzed within the 48-hour holding time established for the method.

Blank. A preparation blank, identified as H2O, was analyzed with the samples. Carbonaceous biochemical oxygen demand was not detected above the reporting limit in the blank.

Laboratory Control Sample. A laboratory control sample, identified as Poly GGA, was analyzed and recovered within the QC limits of 85-115%.

Hexavalent Chromium by SM 3500CrD

Sample handling. One (1) water sample was analyzed for hexavalent chromium by Standard Method 3500CrD. The sample was analyzed within the method-recommended 24-hour hold time.

Calibration. A quarterly five-point calibration was properly established on 10/15/10. Continuing calibration verification standards were analyzed to verify the calibration. The standards were recovered within the QC limits of 90-110%.

Blanks. Method blanks were analyzed with the samples. Hexavalent chromium was not detected above the reporting limit in the blanks.

Spikes. A matrix spike and matrix spike duplicate was performed on sample 9873406001 (FH-102810-NS-WE). The spike recoveries were within the QC limits of 85-115%. The relative percent difference between the spikes was within the QC limit of 20%.

Flashpoint by SW-846 Method 1010

Sample handling. One (1) water sample was analyzed for flashpoint by SW-846 Method 1010. The sample was analyzed within the hold time established for the method.

Calibration. A standard, identified as p-xylene, was analyzed with the sample. The flashpoint of the standard was within the QC limits of +/- 2° F.

Oil and Grease by EPA 1664A

Sample handling. One (1) water sample was analyzed for hexane extractable oil and grease and silica gel treated oil and grease by EPA Method 1664A. The sample was extracted and analyzed within the 28-day holding time established for the method.

Blanks. A preparation blank, identified as 770993, was extracted and analyzed with the sample. Oil and grease was not found above the reporting limit in the blank.

Laboratory Control Sample. A laboratory control sample, identified as 770994, was extracted and analyzed with the sample. The hexane extractable oil and grease recovery was within the QC limits of 78-114% and the silica gel treated oil and grease recovery was within the QC limits of 64-132%.

Spike. A matrix spike analysis was performed on sample 9873406001 (FH-102810-NS-WE). The HEM spike recovery was within the QC limits of 75-125%. The SGT HEM spike recovery was within the QC limits of 70-130%.

pH by SM4500HB

Sample handling. One (1) water sample was analyzed for pH by Standard Method 4500HB. The sample was analyzed within the 24-hour method-recommended holding time.

Calibration. The pH meter was calibrated for the normal pH range of 4.00 to 10.00 on the day of analysis. The calibration was validated by analyzing a standard prior to the analysis of samples and after every ten samples during the run. All standards were found to be within QC limits of +/- 0.05 pH units.

Nitrogen, Total by Calculation

Sample handling. One (1) water sample had total nitrogen results computed by calculation.

Total Kjeldahl Nitrogen by SM 4500NC

Sample handling. One (1) water sample was analyzed for total kjeldahl nitrogen by Standard Method 4500NC. The sample was digested, distilled and analyzed within the 28-day holding time established for the method.

Calibration. An initial four-point calibration was properly established within 24-hours of the analysis and continuing calibration standards were analyzed to verify the calibration. Recoveries were within the QC limits of 90-110%.

Blank. A preparation blank, identified as 771914, was digested, distilled and analyzed with the samples. Initial and continuing method blanks were analyzed. Total kjeldahl nitrogen was not detected above the reporting limit of 1.0 mg/L in the blanks.

Laboratory Control Sample. A laboratory control sample, identified as 771915, was digested, distilled and analyzed with the samples. The recovery was within the QC limits of 90-110%.

Phenols by EPA 420.4

Sample handling. One (1) water sample was analyzed for phenols by EPA Method 420.4. The sample was distilled and analyzed within the 14-day holding time established for the method.

Calibration. An initial six-point calibration was properly established on the day of analysis, and continuing calibration standards were analyzed to verify the calibration. All continuing calibration standards were within QC limits of 90-110%.

Blanks. A preparation blank, identified as 767473, was distilled and analyzed with the samples. Initial and continuing method blanks were also analyzed. Phenols were not detected in the blanks above the reporting limit.

Laboratory Control Sample. A laboratory control sample, identified as 767474, was distilled and analyzed with the samples. The recovery was within the QC limits of 90-110%.

Total Solids on Water by SM 2540B

Sample handling. One (1) water sample was analyzed for total solids by Standard Method 2540B. The sample was analyzed within the 7-day method recommended hold time.

Blank. A preparation blank, identified as 767347, was analyzed with the samples. Total solids were not detected above the reporting limit in the blank.

Laboratory Control Sample. A laboratory control sample, identified as LCS, was analyzed with the samples. The recovery was within the QC limits of 90-110%.

Duplicate. A duplicate analysis, identified as 767350, was performed on sample 9873406001 (FH-102810-NS-WE). The relative percent difference between the results was within the QC limit of 10%.

Total Suspended Solids by SM2540D

Sample handling. One (1) water sample was analyzed for total suspended solids by Standard Method 2540D. The sample was analyzed within the 7-day method recommended holding time.

Blank. A preparation blank, identified as 766711, was analyzed with the samples. Total suspended solids were not detected above the reporting limit in the blank.

Duplicate. A duplicate analysis, identified as 766712, was performed on sample 9873406001 (FH-102810-NS-WE). The relative percent difference between the results was within the QC limit of 20%.

NYCDEP

Effluent Analytical Results

November 2010

(Extracted Water)

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PROJECT TITLE: Shaw E & I
FORT HAMILTON-NY PROJECT

CLP-Like
DATA PACKAGE

Data Deliverable Group
SFM-022

SAMPLES COLLECTED

November 18, 2010

34 Dogwood Lane ✦ Middletown, PA 17057
TEL: 717-944-5541 ✦ FAX: 717-944-1430 ✦ 1-800-794-7709

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Chain of Custody Records

Report ID: 9877014

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1
Courier:
Tracking #:
9877014

Co. Name: SHAW E&I
Contact (Report to): M Loisiger
Phone: 973-770-5313
Address: 111 Howard Blvd. Suite 110 Mt. Arlington NJ 07856

Bill to (if different than Report to):
PO#:

Project Name/#:
ALSI Quote #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:
Email? [X] Y. Michelle.Loisiger@Shawgrp.com
Fax? [ ] Y. No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis									
						PCBs (8082)	Total Lead, Nickel, Zinc (Cadmium) (3015)	Cadmium (SM3500)	Non Polar (Partition) (1664)	Fluoride, Chloride, TSS, pH (Calc) (Cl 300.0)	CBOD (SM)	SVOCs (8270)	VOCs TMBE-TXY (8260)	TOTAL Nitrogen Tri/Nitrates (Calc)	Total Phenols (9065)
1 FH-111810-NS-WE	Effluent	11/18/10	1100	G	W	-	1	1	2	1	1	-	2	1	-
2 FH-111810-NS-WE Comp	Effluent Composite	11/18/10	1130	C	W	2	1*	-	-	-	-	2	2	2	2
3 FH-111810-TB	Trip Blank	-	-	-	W	-	-	-	-	-	-	-	2	1	-
4															
5															
6															
7															
8															

5 CBOD per Michelle's email is the Effluent Composite
6 not the grab CBOD moved to FH-111810-NS-WE comp. DLB
7 * Analyze for Cadmium only

Container Type	G	P	P	G	P
Container Size	1L	250	500	1L	1L
Preservative	-	HNO3	NaOH	H2SO4	-

Container Type	P	P	G	G	P	G
Container Size	1L	1L	1L	40ml	250 CBOD	500 mL
Preservative	-	-	-	HCl	- H2SO4	H2SO4

Receipt Information (completed by lab's receiver)
Received by: [illegible]
Cooler Temp: 1°C
Therm. ID: 1013327-24
No. of Coolers:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
	Y	Y	Y	Y	Y
	N	N	N	N	N
	Y	Y	Y	Y	Y

	Custody seals intact? (if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
	Y	Y	Y	Y

SAMPLED BY (Please Print): T. Mellott
LOGGED BY (signature): [illegible] Date: 11/19/10 Time: 1700
REVIEWED BY (signature): [illegible] Date: 11/22/10 Time: 1122

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [illegible]	11/18/10	1500	2		
3			4 [illegible]	11/19/10	104
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] Other
EDDs Required? [ ] If yes, format type:
COD Criteria Required?
SDWA forms? yes / yes / yes / yes
State Samples Collected in? MD / NJ / NY / PA / Other
ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass; PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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Rev. 6/07

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ALSI Laboratory Analysis Reports

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Certificate of Analysis

Project Name:	FORT HAMILTON-NY PROJECT	Workorder:	9877014
Purchase Order:	454617	Workorder ID:	SFM022|FT HAMILTON-NY

Mr. Terence McHugh
Shaw E & I Inc.-Mt Arlington-NJ
111 Howard Blvd., Suite 110
Mount Arlington, NJ 07856

December 7, 2010

Dear Mr. McHugh,

Enclosed are the analytical results for samples received by the laboratory on Friday, November 19, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Denise Brooks (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

Ms. Michelle Lobsiger

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

orkorder 9877014 SFM022|FT HAMILTON-NY

Discard Date: 12/21/2010

ab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9877014001	FH-111810-NS-WE	Water	11/18/10 11:00	11/19/10 10:45	Customer
9877014002	FH-111810-NS-WE COMP	Water	11/18/10 11:30	11/19/10 10:45	Customer
9877014003	FH-111810-TB	Waste Water	11/18/10 11:30	11/19/10 10:45	Customer

Workorder Comments:

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
	Indicates that the analyte was Not Detected (ND)
	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder 9877014 SFM022|FT HAMILTON-NY

Lab ID: **9877014001** Date Collected: 11/18/2010 11:00 Matrix: Water
Sample ID: **FH-111810-NS-WE** Date Received: 11/19/2010 10:45

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acrolein	30.0 U	ug/L		30.0	2.4	EPA 624			11/23/10 00:13	MES	F
Acrylonitrile	5.0 U	ug/L		5.0	0.89	EPA 624			11/23/10 00:13	MES	F
Benzene	1.0 U	ug/L		1.0	0.16	EPA 624			11/23/10 00:13	MES	F
Bromodichloromethane	1.0 U	ug/L		1.0	0.13	EPA 624			11/23/10 00:13	MES	F
Bromoform	2.0 U	ug/L		2.0	0.21	EPA 624			11/23/10 00:13	MES	F
Bromomethane	2.0 U	ug/L		2.0	0.27	EPA 624			11/23/10 00:13	MES	F
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.24	EPA 624			11/23/10 00:13	MES	F
Chlorobenzene	1.0 U	ug/L		1.0	0.11	EPA 624			11/23/10 00:13	MES	F
Chlorodibromomethane	1.0 U	ug/L		1.0	0.22	EPA 624			11/23/10 00:13	MES	F
Chloroethane	1.0 U	ug/L		1.0	0.24	EPA 624			11/23/10 00:13	MES	F
2-Chloroethylvinyl ether	2.0 U	ug/L		2.0	0.28	EPA 624			11/23/10 00:13	MES	F
Chloroform	1.0 U	ug/L		1.0	0.15	EPA 624			11/23/10 00:13	MES	F
Chloromethane	1.0 U	ug/L		1.0	0.25	EPA 624			11/23/10 00:13	MES	F
1 [illegible]chlorobenzene	1.0 U	ug/L		1.0	0.20	EPA 624			11/23/10 00:13	MES	F
1,[illegible]ichlorobenzene	1.0 U	ug/L		1.0	0.14	EPA 624			11/23/10 00:13	MES	F
1,4-Dichlorobenzene	1.0 U	ug/L		1.0	0.15	EPA 624			11/23/10 00:13	MES	F
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.19	EPA 624			11/23/10 00:13	MES	F
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.22	EPA 624			11/23/10 00:13	MES	F
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.17	EPA 624			11/23/10 00:13	MES	F
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.12	EPA 624			11/23/10 00:13	MES	F
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.24	EPA 624			11/23/10 00:13	MES	F
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.12	EPA 624			11/23/10 00:13	MES	F
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.14	EPA 624			11/23/10 00:13	MES	F
1,3-Dichloropropene, Total	1.0 U	ug/L		1.0	0.19	EPA 624			11/23/10 00:13	MES	F
Ethylbenzene	1.0 U	ug/L		1.0	0.16	EPA 624			11/23/10 00:13	MES	F
Methyl t-Butyl Ether	1.0 U	ug/L		1.0	0.11	EPA 624			11/23/10 00:13	MES	F
Methylene Chloride	1.0 U	ug/L		1.0	0.32	EPA 624			11/23/10 00:13	MES	F
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.22	EPA 624			11/23/10 00:13	MES	F
Tetrachloroethene	1.0 U	ug/L		1.0	0.26	EPA 624			11/23/10 00:13	MES	F
Toluene	1.0 U	ug/L		1.0	0.12	EPA 624			11/23/10 00:13	MES	F
Total Xylenes	3.0 U	ug/L		3.0	0.43	EPA 624			11/23/10 00:13	MES	F
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.27	EPA 624			11/23/10 00:13	MES	F
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.30	EPA 624			11/23/10 00:13	MES	F
Trichloroethene	1.0 U	ug/L		1.0	0.21	EPA 624			11/23/10 00:13	MES	F
Trichlorofluoromethane	1.0 U	ug/L		1.0	0.21	EPA 624			11/23/10 00:13	MES	F
Vinyl Chloride	2.0 U	ug/L		2.0	0.24	EPA 624			11/23/10 00:13	MES	F

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	102	%		72-142	EPA 624			11/23/10 00:13	MES	F
4-Bromofluorobenzene (S)	99.6	%		73-119	EPA 624			11/23/10 00:13	MES	F
Dibromofluoromethane (S)	108	%		74-132	EPA 624			11/23/10 00:13	MES	F
To[illegible]ne-d8 (S)	126	%		75-133	EPA 624			11/23/10 00:13	MES	F

WET CHEMISTRY										
Chloride	58.4	mg/L		5.0	0.088	EPA 300		11/20/10 06:23	J1H	B

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ANALYTICAL RESULTS

Workorder 9877014 SFM022|FT HAMILTON-NY

Lab ID: **9877014001** Date Collected: 11/18/2010 11:00 Matrix: Water

Sample ID: **FH-111810-NS-WE** Date Received: 11/19/2010 10:45

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Flashpoint/Ignitability	See comment		1,2			SW-846 1010			12/6/10 08:00	SDL	D
Hexavalent Chromium	0.010 U	mg/L	3	0.010		SM20-3500-Cr D			11/19/10 12:26	LMM	B
Oil/Grease Silica Gel Treated	2.1 U	mg/L		2.1	0.5	EPA 1664A			12/3/10 07:00	AH	H
pH	9.30	pH_Units	3			SM20-4500-H B			11/19/10 12:17	LMM	B
Total Solids	395	mg/L		5	5	SM20-2540 B			11/23/10 14:00	KAK	B
Total Suspended Solids	5	mg/L		5	5	SM20-2540 D			11/21/10 14:00	LJF	B
METALS											
Cadmium, Total	0.0010 U	mg/L		0.0010	0.00033	EPA 200.7	11/24/10	KMK	11/29/10 16:41	JWK	E1
Copper, Total	0.012	mg/L		0.0050	0.0016	EPA 200.7	11/24/10	KMK	11/29/10 16:41	JWK	E1
Lead, Total	0.0031	mg/L		0.0030	0.0010	EPA 200.7	11/24/10	KMK	11/29/10 16:41	JWK	E1
Mercury, Total (Low-level)	0.00020 U	mg/L		0.00020	0.000060	EPA 245.1	11/29/10	MNP	11/29/10 07:53	MNP	E2
N[illegible] Total	0.010 U	mg/L		0.010	0.0033	EPA 200.7	11/24/10	KMK	11/29/10 16:41	JWK	E1
Z[illegible] otal	0.024	mg/L		0.010	0.0033	EPA 200.7	11/24/10	KMK	11/29/10 16:41	JWK	E1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9877014 SFM022|FT HAMILTON-NY

Lab ID: 9877014002 Date Collected: 11/18/2010 11:30 Matrix: Water
Sample ID: FH-111810-NS-WE COMP Date Received: 11/19/2010 10:45

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acrolein	30.0 U	ug/L		30.0	2.4	EPA 624			11/23/10 00:47	MES	J
Acrylonitrile	5.0 U	ug/L		5.0	0.89	EPA 624			11/23/10 00:47	MES	J
Benzene	1.0 U	ug/L		1.0	0.16	EPA 624			11/23/10 00:47	MES	J
Bromodichloromethane	1.0 U	ug/L		1.0	0.13	EPA 624			11/23/10 00:47	MES	J
Bromoform	2.0 U	ug/L		2.0	0.21	EPA 624			11/23/10 00:47	MES	J
Bromomethane	2.0 U	ug/L		2.0	0.27	EPA 624			11/23/10 00:47	MES	J
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.24	EPA 624			11/23/10 00:47	MES	J
Chlorobenzene	1.0 U	ug/L		1.0	0.11	EPA 624			11/23/10 00:47	MES	J
Chlorodibromomethane	1.0 U	ug/L		1.0	0.22	EPA 624			11/23/10 00:47	MES	J
Chloroethane	1.0 U	ug/L		1.0	0.24	EPA 624			11/23/10 00:47	MES	J
2-Chloroethylvinyl ether	2.0 U	ug/L		2.0	0.28	EPA 624			11/23/10 00:47	MES	J
Chloroform	1.0 U	ug/L		1.0	0.15	EPA 624			11/23/10 00:47	MES	J
Chloromethane	1.0 U	ug/L		1.0	0.25	EPA 624			11/23/10 00:47	MES	J
1 [illegible]chlorobenzene	1.0 U	ug/L		1.0	0.20	EPA 624			11/23/10 00:47	MES	J
1,3-Dichlorobenzene	1.0 U	ug/L		1.0	0.14	EPA 624			11/23/10 00:47	MES	J
1,4-Dichlorobenzene	1.0 U	ug/L		1.0	0.15	EPA 624			11/23/10 00:47	MES	J
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.19	EPA 624			11/23/10 00:47	MES	J
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.22	EPA 624			11/23/10 00:47	MES	J
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.17	EPA 624			11/23/10 00:47	MES	J
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.12	EPA 624			11/23/10 00:47	MES	J
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.24	EPA 624			11/23/10 00:47	MES	J
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.12	EPA 624			11/23/10 00:47	MES	J
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.14	EPA 624			11/23/10 00:47	MES	J
1,3-Dichloropropene, Total	1.0 U	ug/L		1.0	0.19	EPA 624			11/23/10 00:47	MES	J
Ethylbenzene	1.0 U	ug/L		1.0	0.16	EPA 624			11/23/10 00:47	MES	J
Methyl t-Butyl Ether	1.0 U	ug/L		1.0	0.11	EPA 624			11/23/10 00:47	MES	J
Methylene Chloride	1.0 U	ug/L		1.0	0.32	EPA 624			11/23/10 00:47	MES	J
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.22	EPA 624			11/23/10 00:47	MES	J
Tetrachloroethene	1.0 U	ug/L		1.0	0.26	EPA 624			11/23/10 00:47	MES	J
Toluene	1.0 U	ug/L		1.0	0.12	EPA 624			11/23/10 00:47	MES	J
Total Xylenes	3.0 U	ug/L		3.0	0.43	EPA 624			11/23/10 00:47	MES	J
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.27	EPA 624			11/23/10 00:47	MES	J
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.30	EPA 624			11/23/10 00:47	MES	J
Trichloroethene	1.0 U	ug/L		1.0	0.21	EPA 624			11/23/10 00:47	MES	J
Trichlorofluoromethane	1.0 U	ug/L		1.0	0.21	EPA 624			11/23/10 00:47	MES	J
Vinyl Chloride	2.0 U	ug/L		2.0	0.24	EPA 624			11/23/10 00:47	MES	J

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	105	%		72-142	EPA 624			11/23/10 00:47	MES	J
Dibromofluoromethane (S)	109	%		74-132	EPA 624			11/23/10 00:47	MES	J
Toluene-d8 (S)	121	%		75-133	EPA 624			11/23/10 00:47	MES	J
4-[illegible]ofluorobenzene (S)	105	%		73-119	EPA 624			11/23/10 00:47	MES	J

SEMIVOLATILES											
Acenaphthene	1.5 U	ug/L		1.5	0.50	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Acenaphthylene	1.5 U	ug/L		1.5	0.33	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1

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ANALYTICAL RESULTS

Workorder 9877014 SFM022|FT HAMILTON-NY

Lab ID: **9877014002** Date Collected: 11/18/2010 11:30 Matrix: Water

Sample ID: **FH-111810-NS-WE COMP** Date Received: 11/19/2010 10:45

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Anthracene	1.5 U	ug/L		1.5	0.43	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Benzidine	29.4 U	ug/L		29.4	9.8	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Benzo(a)anthracene	1.5 U	ug/L		1.5	0.31	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Benzo(a)pyrene	1.5 U	ug/L		1.5	0.32	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Benzo(b)fluoranthene	1.5 U	ug/L		1.5	0.33	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Benzo(g,h,i)perylene	1.5 U	ug/L		1.5	0.42	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Benzo(k)fluoranthene	1.5 U	ug/L		1.5	0.37	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
4-Bromophenyl-phenylether	2.9 U	ug/L		2.9	0.38	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Butylbenzylphthalate	4.7	ug/L		2.9	0.46	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
4-Chloro-3-methylphenol	7.8 U	ug/L		7.8	0.92	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
bis(2-Chloroethoxy)methane	2.9 U	ug/L		2.9	0.78	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
bis(2-Chloroethyl)ether	2.9 U	ug/L		2.9	0.49	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
bis(2-Chloroisopropyl)ether	2.9 U	ug/L		2.9	0.61	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
2-Chloronaphthalene	2.9 U	ug/L		2.9	0.38	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
2-[illegible]ophenol	7.8 U	ug/L		7.8	0.82	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
4-[illegible]rophenyl-phenylether	2.9 U	ug/L		2.9	0.53	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Chrysene	1.5 U	ug/L		1.5	0.32	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Di-n-Butylphthalate	2.9 U	ug/L		2.9	0.43	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Di-n-Octylphthalate	7.8 U	ug/L		7.8	0.55	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Dibenzo(a,h)anthracene	2.0 U	ug/L		2.0	0.92	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
3,3-Dichlorobenzidine	15.7 U	ug/L		15.7	2.6	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
2,4-Dichlorophenol	7.8 U	ug/L		7.8	0.60	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Diethylphthalate	7.8 U	ug/L		7.8	0.32	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
2,4-Dimethylphenol	7.8 U	ug/L		7.8	2.1	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Dimethylphthalate	7.8 U	ug/L		7.8	0.53	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
2,4-Dinitrophenol	15.7 U	ug/L		15.7	3.5	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
2,4-Dinitrotoluene	2.9 U	ug/L		2.9	0.38	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
2,6-Dinitrotoluene	2.9 U	ug/L		2.9	0.34	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
1,2-Diphenylhydrazine	2.9 U	ug/L		2.9	0.58	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
bis(2-Ethylhexyl)phthalate	2.9 U	ug/L		2.9	0.57	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Fluoranthene	1.5 U	ug/L		1.5	0.34	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Fluorene	1.5 U	ug/L		1.5	0.39	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Hexachlorobenzene	2.9 U	ug/L		2.9	0.53	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Hexachlorobutadiene	2.9 U	ug/L		2.9	0.49	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Hexachlorocyclopentadiene	7.8 U	ug/L		7.8	1.2	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Hexachloroethane	2.9 U	ug/L		2.9	0.85	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Indeno(1,2,3-cd)pyrene	1.5 U	ug/L		1.5	0.25	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Isophorone	2.9 U	ug/L		2.9	0.60	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
2-Methyl-4,6-dinitrophenol	7.8 U	ug/L		7.8	2.4	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Naphthalene	1.5 U	ug/L		1.5	0.45	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Nitrobenzene	2.9 U	ug/L		2.9	0.68	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
2-Nitrophenol	7.8 U	ug/L		7.8	1.5	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
4-N[illegible]phenol	7.8 U	ug/L		7.8	2.9	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
N[illegible]odimethylamine	2.9 U	ug/L		2.9	1.3	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
N-Nitroso-di-n-propylamine	2.9 U	ug/L		2.9	0.55	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
N-Nitrosodiphenylamine	2.9 U	ug/L		2.9	0.81	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Pentachlorophenol	15.7 U	ug/L		15.7	2.5	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1

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ANALYTICAL RESULTS

Workorder 9877014 SFM022|FT HAMILTON-NY

Lab ID: **9877014002** Date Collected: 11/18/2010 11:30 Matrix: Water

Sample ID: **FH-111810-NS-WE COMP** Date Received: 11/19/2010 10:45

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Phenanthrene	1.5 U	ug/L		1.5	0.32	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Phenol	7.8 U	ug/L		7.8	0.71	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Pyrene	1.5 U	ug/L		1.5	0.50	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
1,2,4-Trichlorobenzene	2.9 U	ug/L		2.9	0.63	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
2,4,6-Trichlorophenol	7.8 U	ug/L		7.8	0.54	EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	88.9	%		38-134		EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Terphenyl-d14 (S)	111	%		33-125		EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Phenol-d5 (S)	36.4	%		11-53		EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
2-Fluorobiphenyl (S)	84.2	%		37-113		EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
2-Fluorophenol (S)	62.4	%		17-73		EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Nitrobenzene-d5 (S)	87.8	%		37-124		EPA 625	11/22/10	GEC	11/23/10 09:23	CGS	L1
Pe[illegible]ides and PCBs											
A[illegible]r-1016	0.48 U	ug/L		0.48	0.21	EPA 608	11/23/10	MPP	11/30/10 17:50	KJH	C1
Aroclor-1221	0.48 U	ug/L		0.48	0.32	EPA 608	11/23/10	MPP	11/30/10 17:50	KJH	C1
Aroclor-1232	0.48 U	ug/L		0.48	0.39	EPA 608	11/23/10	MPP	11/30/10 17:50	KJH	C1
Aroclor-1242	0.48 U	ug/L		0.48	0.23	EPA 608	11/23/10	MPP	11/30/10 17:50	KJH	C1
Aroclor-1248	0.48 U	ug/L		0.48	0.18	EPA 608	11/23/10	MPP	11/30/10 17:50	KJH	C1
Aroclor-1254	0.48 U	ug/L		0.48	0.30	EPA 608	11/23/10	MPP	11/30/10 17:50	KJH	C1
Aroclor-1260	0.48 U	ug/L		0.48	0.21	EPA 608	11/23/10	MPP	11/30/10 17:50	KJH	C1
Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyl (S)	64.2	%		30-150		EPA 608	11/23/10	MPP	11/30/10 17:50	KJH	C1
Tetrachloro-m-xylene (S)	63.1	%		36-112		EPA 608	11/23/10	MPP	11/30/10 17:50	KJH	C1
WET CHEMISTRY											
Carbonaceous BOD	2.4	mg/L		2.0	0.9	SM20-5210 B			11/20/10 04:05	JEP	
Nitrate-N	0.080J	mg/L		0.20	0.0080	EPA 300			11/20/10 06:53	J1H	I
Nitrite-N	0.020J	mg/L		0.20	0.013	EPA 300			11/20/10 06:53	J1H	I
Phenolics	0.05	mg/L		0.01	0.004	EPA 420.4	12/7/10	MLM	12/7/10 12:38	KLR	E
Total Kjeldahl Nitrogen	0.5J	mg/L		1.0	0.3	SM20-4500-N C	12/4/10	ARK	12/6/10 09:20	AH	G1
Total Nitrogen	1.00 U	mg/L		1.00		Calculation			12/6/10 14:56	AH	G
METALS											
Cadmium, Total	0.0010 U	mg/L		0.0010	0.00033	EPA 200.7	11/24/10	KMK	11/29/10 16:45	JWK	B1

Sample Comments:

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ANALYTICAL RESULTS

Workorder 9877014 SFM022|FT HAMILTON-NY

Lab ID:	9877014002	Date Collected:	11/18/2010 11:30	Matrix:	Water
Sample ID:	FH-111810-NS-WE COMP	Date Received:	11/19/2010 10:45		

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9877014 SFM022|FT HAMILTON-NY

Lab ID: 9877014003
Sample ID: FH-111810-TB

Date Collected: 11/18/2010 11:30
Date Received: 11/19/2010 10:45

Matrix: Waste Water

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acrolein	30.0 U	ug/L		30.0	2.4	EPA 624			11/22/10 16:20	MES	A
Acrylonitrile	5.0 U	ug/L		5.0	0.89	EPA 624			11/22/10 16:20	MES	A
Benzene	1.0 U	ug/L		1.0	0.16	EPA 624			11/22/10 16:20	MES	A
Bromodichloromethane	1.0 U	ug/L		1.0	0.13	EPA 624			11/22/10 16:20	MES	A
Bromoform	2.0 U	ug/L		2.0	0.21	EPA 624			11/22/10 16:20	MES	A
Bromomethane	2.0 U	ug/L		2.0	0.27	EPA 624			11/22/10 16:20	MES	A
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.24	EPA 624			11/22/10 16:20	MES	A
Chlorobenzene	1.0 U	ug/L		1.0	0.11	EPA 624			11/22/10 16:20	MES	A
Chlorodibromomethane	1.0 U	ug/L		1.0	0.22	EPA 624			11/22/10 16:20	MES	A
Chloroethane	1.0 U	ug/L		1.0	0.24	EPA 624			11/22/10 16:20	MES	A
2-Chloroethylvinyl ether	2.0 U	ug/L		2.0	0.28	EPA 624			11/22/10 16:20	MES	A
Chloroform	1.0 U	ug/L		1.0	0.15	EPA 624			11/22/10 16:20	MES	A
Chloromethane	1.0 U	ug/L		1.0	0.25	EPA 624			11/22/10 16:20	MES	A
1, [illegible]hlorobenzene	1.0 U	ug/L		1.0	0.20	EPA 624			11/22/10 16:20	MES	A
1,3-Dichlorobenzene	1.0 U	ug/L		1.0	0.14	EPA 624			11/22/10 16:20	MES	A
1,4-Dichlorobenzene	1.0 U	ug/L		1.0	0.15	EPA 624			11/22/10 16:20	MES	A
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.19	EPA 624			11/22/10 16:20	MES	A
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.22	EPA 624			11/22/10 16:20	MES	A
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.17	EPA 624			11/22/10 16:20	MES	A
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.12	EPA 624			11/22/10 16:20	MES	A
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.24	EPA 624			11/22/10 16:20	MES	A
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.12	EPA 624			11/22/10 16:20	MES	A
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.14	EPA 624			11/22/10 16:20	MES	A
1,3-Dichloropropene, Total	1.0 U	ug/L		1.0	0.19	EPA 624			11/22/10 16:20	MES	A
Ethylbenzene	1.0 U	ug/L		1.0	0.16	EPA 624			11/22/10 16:20	MES	A
Methyl t-Butyl Ether	1.0 U	ug/L		1.0	0.11	EPA 624			11/22/10 16:20	MES	A
Methylene Chloride	0.58J	ug/L		1.0	0.32	EPA 624			11/22/10 16:20	MES	A
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.22	EPA 624			11/22/10 16:20	MES	A
Tetrachloroethene	1.0 U	ug/L		1.0	0.26	EPA 624			11/22/10 16:20	MES	A
Toluene	1.0 U	ug/L		1.0	0.12	EPA 624			11/22/10 16:20	MES	A
Total Xylenes	3.0 U	ug/L		3.0	0.43	EPA 624			11/22/10 16:20	MES	A
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.27	EPA 624			11/22/10 16:20	MES	A
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.30	EPA 624			11/22/10 16:20	MES	A
Trichloroethene	1.0 U	ug/L		1.0	0.21	EPA 624			11/22/10 16:20	MES	A
Trichlorofluoromethane	1.0 U	ug/L		1.0	0.21	EPA 624			11/22/10 16:20	MES	A
Vinyl Chloride	2.0 U	ug/L		2.0	0.24	EPA 624			11/22/10 16:20	MES	A

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	102	%		72-142	EPA 624			11/22/10 16:20	MES	A
4-Bromofluorobenzene (S)	100	%		73-119	EPA 624			11/22/10 16:20	MES	A
Dibromofluoromethane (S)	109	%		74-132	EPA 624			11/22/10 16:20	MES	A
To[illegible]ne-d8 (S)	118	%		75-133	EPA 624			11/22/10 16:20	MES	A

Sample Comments:

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ANALYTICAL RESULTS

Workorder 9877014 SFM022|FT HAMILTON-NY

Lab ID: 9877014003
Sample ID: FH-111810-TB

Date Collected: 11/18/2010 11:30
Date Received: 11/19/2010 10:45

Matrix: Waste Water

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared By	Analyzed By	Cntr

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder 9877014 SFM022|FT HAMILTON-NY

PARAMETER QUALIFIERS\FLAGS

[1] According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)

[2] Sample did not flash up to 200 degrees F.

[3] Analyte was analyzed past the 24 hour holding time.

Case Narrative

Analytical Laboratory Services Inc.
Analytical Narrative
Shaw E & I
SFM-022

Sample Management

This report contains the results of the analysis of three (3) water samples collected on November 18, 2010. Analytical results and quality control information are summarized in this data package.

Sample Receipt

The samples arrived at ALSI via courier on November 19, 2010. Upon receipt, the samples were inspected and compared to the enclosed chain of custody. The samples were assigned a unique identification number (see the Certificate of Analysis). The sample information was entered into the computer system and the samples were released for analysis.

Volatile Organics by EPA Method 624

Sample Handling. Three (3) water samples were analyzed on MS03 by EPA Method 624 for volatile organic compounds. All analyses were performed within the holding time.

Initial Calibrations. A six-point calibration was analyzed on MS03 on November 18, 2010. This calibration was used to quantitate the samples, blank and spikes. The initial calibration met method criteria for all target analytes.

Continuing Calibration Checks. Calibration check standards were properly analyzed. In general, if quality assurance data indicate a potential high bias, sample results are not qualified and no corrective action is taken unless there are positive results above the reporting limit on the analytical batch where the high bias exists. Acrolein shows a high bias, but was not detected in the project samples. The continuing calibration check standards met method criteria for all other target analytes.

Blanks. One method blank, identified as 775113, was analyzed with the samples in this deliverable group. Methylene chloride was detected at 0.45J µg/L. No other target analytes were detected in the method blank.

Surrogates. A four-component surrogate mix was added to each sample, blank and spike. All surrogate recoveries were within control limits in the samples, blanks and spikes.

Internal Standards. A three-component internal standard mix was added to the samples, blank and spike. The internal standards met method criteria in the samples, blanks and spikes.

Spiked Blanks. One spiked blank, identified as 775114, was analyzed with the samples in this deliverable group. Acrolein was recovered above control limits. All other target analytes were recovered within control limits in the spiked blank.

Semi-volatile Organic Compounds by EPA Method 625

Sample Handling. One (1) water sample was extracted and analyzed by EPA method 625 for semi-volatile organic compounds. The sample, extraction blank and blank spike were analyzed on MS02. All extractions and analyses were performed within holding time.

Initial Calibrations. An eight-point calibration for EPA Method 625 was analyzed on MS02 on November 5, 2010. This calibration was used for the analysis of the sample, blank and blank spike. The initial calibration met EPA Method 625 criteria for all target analytes.

Calibration Checks. Calibration check standards were properly analyzed. The continuing calibration check standard met EPA Method 625 criteria for all target analytes.

Blanks. A method blank, identified as 774978, was extracted and analyzed with the samples in this deliverable group. No target analytes were detected in the method blank.

Surrogates. A six-component surrogate mix was added to each sample, blank and spike. All surrogate recoveries were recovered within control limits in the samples, blank and spikes.

Internal Standards. A six-component internal standard mix was added to each sample, blank and spikes. In sample FH-111810-NS-WE-COMP (9877014002), perylene-d12 was recovered below the method criterion. All other internal standards met method criteria in the sample, blank and spikes.

Blank Spikes. A blank spike, identified as 774979, was extracted and analyzed with the samples in this deliverable group. All target analytes were recovered within control limits in the spiked blank.

Polychlorinated Biphenyls as Aroclors by EPA Method 608

Sample Handling. One (1) water sample was extracted and analyzed for polychlorinated biphenyls as Aroclor by EPA Method 608. The sample extraction and analysis was performed within the holding time associated with the method.

Reporting. The sample was analyzed using dual-column instrumentation. The results from the primary column (RTX-440) were evaluated for quantitative purposes and the results from secondary column (RTX-CLPEST-2) were evaluated for qualitative purposes. Raw data from both columns are provided for reviewing purposes.

Initial Calibrations. The initial calibration was performed on GC05 on October 21, 2010. After the initial calibration was conducted, it was verified with an initial calibration verification standard prepared from a lot of material independent of that used to calibrate the instrument. Standards used for the second source initial calibration verification consisted of the appropriate Aroclor(s) each at 1.0 ng/µL. All results met method criteria for all Aroclors.

Calibration verification. The initial calibration was verified prior to sample analysis and every 12 hours, thereafter with a continuing calibration verification standard. (CCV). The average peak concentration of each Aroclor was in control.

Surrogates. A two-component surrogate mix was added to each sample, blank and spike. All surrogate recoveries were within control limits.

Blanks. One method blank, identified as 775566, was extracted and analyzed with the samples in this group. Polychlorinated biphenyls as Aroclors were not detected in the method blank.

Spiked Blanks. A spiked blank, identified as 775567, was extracted and analyzed with the sample in this deliverable group. Aroclors were recovered within control limits in the spiked blank.

Total metals by EPA Method 200.7

Sample handling. Two (2) water samples were hot-block digested and analyzed for total metals on the ThermoFisher ICP6500 using EPA Method 200.7. The samples were analyzed within the six-month holding time established for the method.

Calibration. The day that the samples were analyzed, an initial four-point calibration was properly established and verified through the analysis of a second source calibration verification standard (QCS), an initial calibration blank (S0), an initial performance check (IPC), a reporting limit standard, an interference check standard (ICSA), and an additional interference check standard (ICSAB). Calibration checks were analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibration and check standards were within the control limits for all analytes relevant to this data package

Blanks. Reagent (calibration) blanks were analyzed following the calibration, after every ten samples, and at the conclusion of the run. Lead was detected in the continuing calibration blank run at 17:10 on 11/29/10 at 0.001Jmg/L. No other target metals were detected in the reagent blanks. A method blank, identified as 775863-MB, was digested and analyzed with the samples in this deliverable group. No target metals were detected in the method blank.

Laboratory Control Sample. A laboratory control sample, identified as 775864-LCS was digested and analyzed with the samples in this deliverable group. The LCS spike recoveries were within the control limits of 85-115% for all metals.

Spikes. A matrix spike and matrix spike duplicate identified as 775865 and 775866, were digested and analyzed on non-project batch MS/MSD sample 9876948001, with this deliverable group. The MS/MSD recoveries and their RPDs were all within the method control limits.

A matrix spike identified as 775867, was digested and analyzed on non-project batch MS sample 9877009002, with this deliverable group. The MS recoveries were all within the method control limits.

Total Mercury by EPA Method 245.1

Sample handling. One (1) water sample was analyzed for total mercury on the CETAC Hg Analyzer, using EPA method 245.1. The sample was digested and analyzed within the 28-day holding time established for the method.

Calibration. The day that the sample was analyzed, an initial five-point calibration was properly established and verified through the analysis of a second source calibration verification standard. Calibration check standards were analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibration and check standards were within method control limits.

Blanks. Reagent (calibration) blanks were analyzed following the calibration, after every ten samples, and at the conclusion of the run. Mercury was not present in any of the reagent blanks at a detectable level. A method blank, identified as 775948-MB, was digested and analyzed with the sample in this deliverable group. Mercury was not detected in the method blank.

Laboratory Control Samples. A laboratory control samples (LCS), identified as 775949-LCS, was also digested and analyzed for total mercury with the sample in this deliverable group. The laboratory control sample was found to be within the control limits for this method.

Spikes. A matrix spike/matrix spike duplicate identified as 775950 and 775951, were digested and analyzed on batch MS/MSD sample 9877008001, with this deliverable group. The mercury MS/MSD recoveries and their RPD were with method control limits.

A matrix spike/matrix spike duplicate identified as 775952 and 775953, were also digested and analyzed on batch MS/MSD sample 9877246002, with this deliverable group. One

of the two MS/MSD recoveries was outside method limits. Matrix interferences are likely the cause for the failure.

Anions by EPA 300.0

Sample handling. One (1) aqueous sample was analyzed for chloride and one (1) aqueous sample was analyzed for nitrite and nitrate by EPA Method 300.0. The samples were analyzed within the method recommended holding time for each analyte.

Calibration. Initial seven-point calibrations, identified as Method A (high range) and Method L (low range), were properly established for IC#3 on 11/11/10. The calibrations were verified by initial calibration verification standards and continuing calibration verification standards on the day of analysis. The calibration verification recoveries were within the QC limits of 90-110%.

Blanks. Initial and continuing blanks were analyzed with the samples. Chloride was not detected above the reporting limit in the blanks.

Laboratory Control Samples. Laboratory control samples, identified as LCS and SSL, were analyzed initially and every 20 samples. Recoveries were within the QC limits of 90-110%.

Carbonaceous Biochemical Oxygen Demand by SM 5210B

Sample handling. One (1) aqueous sample was analyzed for carbonaceous biochemical oxygen demand by Standard Method 5210B. The sample was analyzed within the 48-hour holding time established for the method.

Blank. A preparation blank, identified as 774766, was analyzed with the samples. Carbonaceous biochemical oxygen demand was not detected above the reporting limit in the blank.

Laboratory Control Sample. A laboratory control sample, identified as 774767, was analyzed and recovered within the QC limits of 85-115%.

Hexavalent Chromium by SM 3500CrD

Sample handling. One (1) aqueous sample was analyzed for hexavalent chromium by Standard Method 3500CrD. The sample was analyzed after the method-recommended 24-hour hold time had expired.

Calibration. A quarterly five-point calibration was properly established on 10/15/10. On the day of analysis, continuing calibration verification standards were analyzed to verify the calibration. The standards were within the QC limits of 90-110%.

Blanks. Method blanks were analyzed with the samples. Hexavalent chromium was not detected above the reporting limit in the blanks.

Spikes. A matrix spike and matrix spike duplicate, identified as 774662 and 774663, was performed on sample 9877014001 (FH-111810-NS-WE). The spike recoveries were within the QC limits of 85-115%. The relative percent difference between the spikes was within the QC limit of 20%.

Flashpoint by SW-846 Method 1010

Sample handling. One (1) aqueous sample was analyzed for flashpoint by SW-846 Method 1010. The sample was analyzed within the hold time established for the method.

Calibration. A standard, identified as p-xylene, was analyzed with the sample. The flashpoint of the standard was within the QC limits of +/- 2° F.

Dulicate. A duplicate analysis, identified as 779476, was performed on sample 9877014001 (FH-111810-NS-WE). The duplicate results were identical.

Oil and Grease by EPA 1664A

Sample handling. One (1) aqueous sample was analyzed for silica gel treated oil and grease by EPA Method 1664A. The sample was extracted and analyzed within the 28-day holding time established for the method.

Blanks. A preparation blank, identified as 778495, was extracted and analyzed with the sample. Oil and grease was not found above the reporting limit in the blank.

Laboratory Control Sample. A laboratory control sample, identified as 778496, was extracted and analyzed with the sample. The silica gel treated oil and grease recovery was within the QC limits of 64-132%.

Spike. A matrix spike analysis, identified 778497, was performed on sample 9877014001 (FH-111810-NS-WE). The SGT HEM spike recovery was within the QC limits of 70-130%.

pH by SM4500HB

Sample handling. One (1) aqueous sample was analyzed for pH by Standard Method 4500HB. The sample was analyzed after the 24-hour method-recommended holding time had expired.

Calibration. The pH meter was calibrated for the normal pH range of 4.00 to 10.00 on the day of analysis. The calibration was validated by analyzing a standard prior to the analysis of samples and after every ten samples during the run. All standards were found to be within QC limits of +/- 0.05 pH units.

Nitrogen, Total by Calculation

Sample handling. One (1) aqueous sample had total nitrogen results computed by calculation.

Total Kjeldahl Nitrogen by SM 4500NC

Sample handling. One (1) aqueous sample was analyzed for total kjeldahl nitrogen by Standard Method 4500NC. The sample was digested, distilled and analyzed within the 28-day holding time established for the method.

Calibration. An initial four-point calibration was properly established within 24-hours of the analysis and continuing calibration standards were analyzed to verify the calibration. Recoveries were within the QC limits of 90-110%.

Blank. A preparation blank, identified as 778848, was digested, distilled and analyzed with the samples. Initial and continuing method blanks were analyzed. Total kjeldahl nitrogen was not detected above the reporting limit of 1.0 mg/L in the blanks.

Laboratory Control Sample. A laboratory control sample, identified as 778849, was digested, distilled and analyzed with the samples. The recovery was within the QC limits of 90-110%.

Phenols by EPA 420.4

Sample handling. One (1) aqueous sample was analyzed for phenols by EPA Method 420.4. The sample was distilled and analyzed within the 14-day holding time established for the method.

Calibration. An initial six-point calibration was properly established on the day of analysis, and continuing calibration standards were analyzed to verify the calibration. All continuing calibration standards were within QC limits of 90-110%.

Blanks. A preparation blank, identified as 779743, was distilled and analyzed with the samples. Initial and continuing method blanks were also analyzed. Phenols were not detected above the reporting limit in the blanks.

Laboratory Control Sample. A laboratory control sample, identified as 779744, was distilled and analyzed with the samples. The recovery was within the QC limits of 90-110%.

Total Solids on Water by SM 2540B

Sample handling. One (1) aqueous sample was analyzed for total solids by Standard Method 2540B. The sample was analyzed within the 7-day method recommended hold time.

Blank. A preparation blank, identified as 775468, was analyzed with the samples. Total solids were not detected above the reporting limit in the blank.

Laboratory Control Sample. A laboratory control sample, identified as LCS, was analyzed with the samples. The recovery was within the QC limits of 90-110%.

Duplicate. A duplicate analysis, identified as 775469, was performed on sample 9877014001 (FH-111810-NS-WE). The relative percent difference between the results was within the QC limit of 10%.

Total Suspended Solids by SM2540D

Sample handling. One (1) aqueous sample was analyzed for total suspended solids by Standard Method 2540D. The sample was analyzed within the 7-day method recommended holding time.

Blank. A preparation blank, identified as 774897, was analyzed with the samples. Total suspended solids were not detected above the reporting limit in the blank.

NYCDEP

Effluent Analytical Results

December 2010

(Extracted Water)

Recd 12/2010

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Environmental ✦ Industrial Hygiene ✦ Field Services
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PROJECT TITLE: Shaw E & I
FORT HAMILTON-NY PROJECT

CLP-Like
DATA PACKAGE

Data Deliverable Group
SFM-024

SAMPLES COLLECTED

December 7, 2010

34 Dogwood Lane ✦ Middletown, PA 17057
TEL: 717-944-5541 ✦ FAX: 717-944-1430 ✦ 1-800-794-7709

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Chain of Custody Records

Report ID: 9879474

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1
Courier: UPS
Tracking #: 1Z72V9142210025679

9879474

Co. Name: Shaw E&I
Contact (Report to): Michelle Lobsiger
Phone: 973-770-5313
Address: 111 Howard Blvd. Suite 110 Mt. Arlington, NJ 07856

Bill to (if different than Report to): SAME
PO#:

Project Name/#: FT Hom / Ba
ALSI Quote #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:

Email? [X] Y michelle.lobsiger@shawgroup.com
Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Cadmium V1 (SM3500)	Flashpoint, Chlorine, TS, TSS, pH (1010) (300.0) (9250)	Non Polar Material (1664)	VOCs (8260)	SVOCs (8270)	PCBs (608)	Phenols (420.4)	CBOD (5210)	Total Metals - Pb/Hg 1 (1631/245.1)	Cadmium, Nickel, Copper, Lead, Zinc (6020)	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
1 FH-120710-NS-WE		12/7/10	1055	G	GW	1	1	2	2	-	-	-	-	-	1	Y	N	N	N	N
2 FH-120710-NS-WE Comp		12/7/10	1130	C	GW	-	-	-	2	2	2	2	1	2	1*	Y	N	N	N	N
3 FH-120710-TB		12/7/10	—	—		-	-	-	2	-	-	-	-	-	-	Y	Y	Y	Y	Y
4	* Cadmium only																			
5																				
6																				
7																				
8																				

Enter Number of Containers Per Analysis

	Cadmium V1	Flashpoint, Chlorine, TS, TSS, pH	Non Polar Material	VOCs	SVOCs	PCBs	Phenols	CBOD	Total Metals - Pb/Hg 1	Cadmium, Nickel, Copper, Lead, Zinc
Container Type	P	P	G	G	G	G	G	P	P	P
Container Size	500 mL	1L	1L	40mL	1L	1L	250 mL	1L	500 mL	250 mL
Preservative	None	None	H2SO4	HCl	None	None	H2SO4	None	HNO3	HNO3

Receipt Information (completed by Sample Receiver)
Received by: DRB
Cooler Temp: 1°C
Therm. ID: 161332724
No. of Coolers:
Notes: PO 1248

Custody seals Present? Y
(If present) Seals intact? Y
Received on Ice? Y
COC/Labels complete/accurate? Y
Container in good condition? Y

SAMPLED BY (Please Print): Terry Murphy
LOGGED BY (signature): 12/8/10 1:00
REVIEWED BY (signature): DBrown 12/9/10 1:846

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	12/7/10	1300	2		
3			4 DE Smith ALSI	12/8/10	1035
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] EDDs (Required) [ ] If yes, format type:
SDWA Format?: yes / yes / yes / yes
State Samples Collected in?: MD / NJ / NY / PA / Other
Enter PWSID No.
DQO Criteria Required?

ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite
**Matrix: Air=Air; DW=Drinking Water; GW=Groundwater; Oil=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG=Amber Glass; CG=Clear Glass; PL=Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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Rev 6/07

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ALSI Laboratory Analysis Reports

0007

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Certificate of Analysis

Project Name:	FORT HAMILTON-NY PROJECT	Workorder:	9879474
Purchase Order:	454617	Workorder ID:	SFM024IFT HAMILTON-NY PROJECT

Mr. Terence McHugh
Shaw E & I Inc.-Mt Arlington-NJ
111 Howard Blvd., Suite 110
Mount Arlington, NJ 07856

December 22, 2010

Dear Mr. McHugh,

Enclosed are the analytical results for samples received by the laboratory on Wednesday, December 08, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Denise Brooks (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

C: Ms. Michelle Lobsiger

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder 9879474 SFM024|FT HAMILTON-NY PROJECT

Discard Date: 01/05/2011

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9879474001	FH-120710-NS-WE Grab	Waste Water	12/7/10 10:55	12/8/10 10:35	Terence McHugh
9879474002	FH-120710-NS-WE Comp	Waste Water	12/7/10 11:30	12/8/10 10:35	Terence McHugh
9879474003	FH-120710-TB	Waste Water	12/7/10 00:00	12/8/10 10:35	Terence McHugh

Workorder Comments:

Notes

- -- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
	Indicates that the analyte was Not Detected (ND)
	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder 9879474 SFM024|FT HAMILTON-NY PROJECT

Lab ID: **9879474001** Date Collected: 12/7/2010 10:55 Matrix: Waste Water

Sample ID: **FH-120710-NS-WE Grab** Date Received: 12/8/2010 10:35

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acrolein	30.0 U	ug/L		30.0	2.4	EPA 624			12/18/10 11:49	JAH	A
Acrylonitrile	5.0 U	ug/L		5.0	0.89	EPA 624			12/18/10 11:49	JAH	A
Benzene	1.0 U	ug/L		1.0	0.16	EPA 624			12/18/10 11:49	JAH	A
Bromodichloromethane	1.0 U	ug/L		1.0	0.13	EPA 624			12/18/10 11:49	JAH	A
Bromoform	2.0 U	ug/L		2.0	0.21	EPA 624			12/18/10 11:49	JAH	A
Bromomethane	2.0 U	ug/L		2.0	0.27	EPA 624			12/18/10 11:49	JAH	A
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.24	EPA 624			12/18/10 11:49	JAH	A
Chlorobenzene	1.0 U	ug/L		1.0	0.11	EPA 624			12/18/10 11:49	JAH	A
Chlorodibromomethane	1.0 U	ug/L		1.0	0.22	EPA 624			12/18/10 11:49	JAH	A
Chloroethane	1.0 U	ug/L		1.0	0.24	EPA 624			12/18/10 11:49	JAH	A
2-Chloroethylvinyl ether	2.0 U	ug/L		2.0	0.28	EPA 624			12/18/10 11:49	JAH	A
Chloroform	1.0 U	ug/L		1.0	0.15	EPA 624			12/18/10 11:49	JAH	A
Chloromethane	1.0 U	ug/L		1.0	0.25	EPA 624			12/18/10 11:49	JAH	A
1, hlorobenzene	1.0 U	ug/L		1.0	0.20	EPA 624			12/18/10 11:49	JAH	A
1,3 chlorobenzene	1.0 U	ug/L		1.0	0.14	EPA 624			12/18/10 11:49	JAH	A
1,4-Dichlorobenzene	1.0 U	ug/L		1.0	0.15	EPA 624			12/18/10 11:49	JAH	A
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.19	EPA 624			12/18/10 11:49	JAH	A
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.22	EPA 624			12/18/10 11:49	JAH	A
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.17	EPA 624			12/18/10 11:49	JAH	A
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.12	EPA 624			12/18/10 11:49	JAH	A
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.24	EPA 624			12/18/10 11:49	JAH	A
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.12	EPA 624			12/18/10 11:49	JAH	A
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.14	EPA 624			12/18/10 11:49	JAH	A
1,3-Dichloropropene, Total	1.0 U	ug/L		1.0	0.19	EPA 624			12/18/10 11:49	JAH	A
Ethylbenzene	1.0 U	ug/L		1.0	0.16	EPA 624			12/18/10 11:49	JAH	A
Methyl t-Butyl Ether	1.0 U	ug/L		1.0	0.11	EPA 624			12/18/10 11:49	JAH	A
Methylene Chloride	1.0 U	ug/L		1.0	0.32	EPA 624			12/18/10 11:49	JAH	A
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.22	EPA 624			12/18/10 11:49	JAH	A
Tetrachloroethene	1.0 U	ug/L		1.0	0.26	EPA 624			12/18/10 11:49	JAH	A
Toluene	1.0 U	ug/L		1.0	0.12	EPA 624			12/18/10 11:49	JAH	A
Total Xylenes	3.0 U	ug/L		3.0	0.43	EPA 624			12/18/10 11:49	JAH	A
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.27	EPA 624			12/18/10 11:49	JAH	A
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.30	EPA 624			12/18/10 11:49	JAH	A
Trichloroethene	1.0 U	ug/L		1.0	0.21	EPA 624			12/18/10 11:49	JAH	A
Trichlorofluoromethane	1.0 U	ug/L		1.0	0.21	EPA 624			12/18/10 11:49	JAH	A
Vinyl Chloride	2.0 U	ug/L		2.0	0.24	EPA 624			12/18/10 11:49	JAH	A

Library Search - Volatiles

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	117	%		72-142	EPA 624			12/18/10 11:49	JAH	A
4- ofluorobenzene (S)	85	%		73-119	EPA 624			12/18/10 11:49	JAH	A
Di ofluoromethane (S)	106	%		74-132	EPA 624			12/18/10 11:49	JAH	A
Toluene-d8 (S)	120	%		75-133	EPA 624			12/18/10 11:49	JAH	A

WET CHEMISTRY

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ANALYTICAL RESULTS

Workorder 9879474 SFM024|FT HAMILTON-NY PROJECT

Lab ID: **9879474001** Date Collected: 12/7/2010 10:55 Matrix: Waste Water

Sample ID: **FH-120710-NS-WE Grab** Date Received: 12/8/2010 10:35

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Chloride	591	mg/L		10.0	0.18	EPA 300			12/10/10 08:38	J1H	D
Flashpoint/Ignitability	See comment		1,2			SW-846 1010			12/19/10 09:00	SDL	G
Hexavalent Chromium	0.010 U	mg/L		0.010		SM20-3500-Cr D			12/8/10 12:55	LMM	D
Oil/Grease Silica Gel Treated	2.1 U	mg/L		2.1	0.5	EPA 1664A			12/20/10 11:00	NJA	E
pH	8.32	pH_Units	3			SM20-4500-H B			12/8/10 11:05	LMM	D
Total Solids	1180	mg/L		5	5	SM20-2540 B			12/9/10 07:30	KAK	D
Total Suspended Solids	5 U	mg/L		5	5	SM20-2540 D			12/9/10 01:20	LJF	D
METALS											
Cadmium, Total	0.0010 U	mg/L		0.0010	0.00033	EPA 200.7	12/13/10	KMK	12/15/10 20:07	JWK	H1
Copper, Total	0.0068	mg/L		0.0050	0.0016	EPA 200.7	12/13/10	KMK	12/15/10 20:07	JWK	H1
Lead, Total	0.0060	mg/L		0.0030	0.0010	EPA 200.7	12/13/10	KMK	12/15/10 20:07	JWK	H1
Mercury, Total (Low-level)	0.00020 U	mg/L		0.00020	0.000060	EPA 245.1	12/14/10	MNP	12/14/10 11:30	MNP	H2
N. Total	0.010 U	mg/L		0.010	0.0033	EPA 200.7	12/13/10	KMK	12/15/10 20:07	JWK	H1
Zinc, Total	0.48	mg/L		0.010	0.0033	EPA 200.7	12/13/10	KMK	12/15/10 20:07	JWK	H1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9879474 SFM024|FT HAMILTON-NY PROJECT

Lab ID: 9879474002 Date Collected: 12/7/2010 11:30 Matrix: Waste Water
Sample ID: FH-120710-NS-WE Comp Date Received: 12/8/2010 10:35

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acrolein	30.0 U	ug/L		30.0	3.0	EPA 624			12/18/10 12:23	JAH	A
Acrylonitrile	5.0 U	ug/L		5.0	1.2	EPA 624			12/18/10 12:23	JAH	A
Benzene	1.0 U	ug/L		1.0	0.23	EPA 624			12/18/10 12:23	JAH	A
Bromodichloromethane	1.0 U	ug/L		1.0	0.27	EPA 624			12/18/10 12:23	JAH	A
Bromoform	2.0 U	ug/L		2.0	0.40	EPA 624			12/18/10 12:23	JAH	A
Bromomethane	2.0 U	ug/L		2.0	0.39	EPA 624			12/18/10 12:23	JAH	A
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.31	EPA 624			12/18/10 12:23	JAH	A
Chlorobenzene	1.0 U	ug/L		1.0	0.19	EPA 624			12/18/10 12:23	JAH	A
Chlorodibromomethane	1.0 U	ug/L		1.0	0.45	EPA 624			12/18/10 12:23	JAH	A
Chloroethane	1.0 U	ug/L		1.0	0.33	EPA 624			12/18/10 12:23	JAH	A
2-Chloroethylvinyl ether	2.0 U	ug/L		2.0	0.38	EPA 624			12/18/10 12:23	JAH	A
Chloroform	1.0 U	ug/L		1.0	0.21	EPA 624			12/18/10 12:23	JAH	A
Chloromethane	1.0 U	ug/L		1.0	0.31	EPA 624			12/18/10 12:23	JAH	A
1, [illegible]hlorobenzene	1.0 U	ug/L		1.0	0.38	EPA 624			12/18/10 12:23	JAH	A
1,[illegible]chlorobenzene	1.0 U	ug/L		1.0	0.25	EPA 624			12/18/10 12:23	JAH	A
1,4-Dichlorobenzene	1.0 U	ug/L		1.0	0.27	EPA 624			12/18/10 12:23	JAH	A
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.28	EPA 624			12/18/10 12:23	JAH	A
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.32	EPA 624			12/18/10 12:23	JAH	A
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.29	EPA 624			12/18/10 12:23	JAH	A
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.26	EPA 624			12/18/10 12:23	JAH	A
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.24	EPA 624			12/18/10 12:23	JAH	A
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.31	EPA 624			12/18/10 12:23	JAH	A
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.29	EPA 624			12/18/10 12:23	JAH	A
1,3-Dichloropropene, Total	1.0 U	ug/L		1.0	0.47	EPA 624			12/18/10 12:23	JAH	A
Ethylbenzene	1.0 U	ug/L		1.0	0.34	EPA 624			12/18/10 12:23	JAH	A
Methyl t-Butyl Ether	1.0 U	ug/L		1.0	0.33	EPA 624			12/18/10 12:23	JAH	A
Methylene Chloride	1.0 U	ug/L		1.0	0.45	EPA 624			12/18/10 12:23	JAH	A
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.34	EPA 624			12/18/10 12:23	JAH	A
Tetrachloroethene	1.0 U	ug/L		1.0	0.35	EPA 624			12/18/10 12:23	JAH	A
Toluene	1.0 U	ug/L		1.0	0.23	EPA 624			12/18/10 12:23	JAH	A
Total Xylenes	3.0 U	ug/L		3.0	0.66	EPA 624			12/18/10 12:23	JAH	A
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.22	EPA 624			12/18/10 12:23	JAH	A
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.33	EPA 624			12/18/10 12:23	JAH	A
Trichloroethene	1.0 U	ug/L		1.0	0.33	EPA 624			12/18/10 12:23	JAH	A
Trichlorofluoromethane	1.0 U	ug/L		1.0	0.24	EPA 624			12/18/10 12:23	JAH	A
Vinyl Chloride	2.0 U	ug/L		2.0	0.30	EPA 624			12/18/10 12:23	JAH	A

Library Search - Volatiles

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	114	%		72-142	EPA 624			12/18/10 12:23	JAH	A
To[illegible]e-d8 (S)	129	%		75-133	EPA 624			12/18/10 12:23	JAH	A
4-[illegible]fluorobenzene (S)	79.9	%		73-119	EPA 624			12/18/10 12:23	JAH	A
Dibromofluoromethane (S)	105	%		74-132	EPA 624			12/18/10 12:23	JAH	A

SEMIVOLATILES

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ANALYTICAL RESULTS

Workorder 9879474 SFM024|FT HAMILTON-NY PROJECT

Lab ID: **9879474002** Date Collected: 12/7/2010 11:30 Matrix: Waste Water

Sample ID: **FH-120710-NS-WE Comp** Date Received: 12/8/2010 10:35

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Acenaphthene	1.4 U	ug/L		1.4	0.49	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Acenaphthylene	1.4 U	ug/L		1.4	0.33	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Anthracene	1.4 U	ug/L		1.4	0.43	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Benzidine	29.0 U	ug/L		29.0	9.7	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Benzo(a)anthracene	1.4 U	ug/L		1.4	0.31	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Benzo(a)pyrene	1.4 U	ug/L		1.4	0.32	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Benzo(b)fluoranthene	1.4 U	ug/L		1.4	0.33	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Benzo(g,h,i)perylene	1.4 U	ug/L		1.4	0.42	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Benzo(k)fluoranthene	1.4 U	ug/L		1.4	0.37	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
4-Bromophenyl-phenylether	2.9 U	ug/L		2.9	0.38	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Butylbenzylphthalate	4.6	ug/L		2.9	0.45	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
4-Chloro-3-methylphenol	7.7 U	ug/L		7.7	0.91	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
bis(2-Chloroethoxy)methane	2.9 U	ug/L		2.9	0.77	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
bis(2-Chloroethyl)ether	2.9 U	ug/L		2.9	0.48	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
b[illegible]hloroisopropyl)ether	2.9 U	ug/L		2.9	0.60	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
2-C[illegible]oronaphthalene	2.9 U	ug/L		2.9	0.38	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
2-Chlorophenol	7.7 U	ug/L		7.7	0.81	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
4-Chlorophenyl-phenylether	2.9 U	ug/L		2.9	0.52	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Chrysene	1.4 U	ug/L		1.4	0.32	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Di-n-Butylphthalate	2.9 U	ug/L		2.9	0.43	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Di-n-Octylphthalate	7.7 U	ug/L		7.7	0.54	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Dibenzo(a,h)anthracene	1.9 U	ug/L		1.9	0.91	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
3,3-Dichlorobenzidine	15.5 U	ug/L		15.5	2.6	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
2,4-Dichlorophenol	7.7 U	ug/L		7.7	0.59	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Diethylphthalate	7.7 U	ug/L		7.7	0.32	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
2,4-Dimethylphenol	7.7 U	ug/L		7.7	2.0	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Dimethylphthalate	7.7 U	ug/L		7.7	0.52	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
2,4-Dinitrophenol	15.5 U	ug/L		15.5	3.5	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
2,4-Dinitrotoluene	2.9 U	ug/L		2.9	0.38	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
2,6-Dinitrotoluene	2.9 U	ug/L		2.9	0.34	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
1,2-Diphenylhydrazine	2.9 U	ug/L		2.9	0.57	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
bis(2-Ethylhexyl)phthalate	2.9 U	ug/L		2.9	0.56	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Fluoranthene	1.4 U	ug/L		1.4	0.34	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Fluorene	1.4 U	ug/L		1.4	0.39	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Hexachlorobenzene	2.9 U	ug/L		2.9	0.52	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Hexachlorobutadiene	2.9 U	ug/L		2.9	0.48	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Hexachlorocyclopentadiene	7.7 U	ug/L		7.7	1.2	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Hexachloroethane	2.9 U	ug/L		2.9	0.84	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Indeno(1,2,3-cd)pyrene	1.4 U	ug/L		1.4	0.25	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Isophorone	2.9 U	ug/L		2.9	0.59	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
2-Methyl-4,6-dinitrophenol	7.7 U	ug/L		7.7	2.3	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Naphthalene	1.4 U	ug/L		1.4	0.44	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
N[illegible]nzene	2.9 U	ug/L		2.9	0.67	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
2-[illegible]phenol	7.7 U	ug/L		7.7	1.4	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
4-Nitrophenol	7.7 U	ug/L		7.7	2.9	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
N-Nitrosodimethylamine	2.9 U	ug/L		2.9	1.3	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
N-Nitroso-di-n-propylamine	2.9 U	ug/L		2.9	0.54	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1

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ANALYTICAL RESULTS

Workorder 9879474 SFM024|FT HAMILTON-NY PROJECT

Lab ID: 9879474002 Date Collected: 12/7/2010 11:30 Matrix: Waste Water
Sample ID: FH-120710-NS-WE Comp Date Received: 12/8/2010 10:35

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
N-Nitrosodiphenylamine	2.9 U	ug/L		2.9	0.80	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Pentachlorophenol	15.5 U	ug/L		15.5	2.5	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Phenanthrene	1.4 U	ug/L		1.4	0.32	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Phenol	7.7 U	ug/L		7.7	0.70	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Pyrene	1.4 U	ug/L		1.4	0.49	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
1,2,4-Trichlorobenzene	2.9 U	ug/L		2.9	0.62	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
2,4,6-Trichlorophenol	7.7 U	ug/L		7.7	0.53	EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1

Library Search - SemiVolatiles

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	63.5	%		38-134		EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
2-Fluorobiphenyl (S)	85.1	%		37-113		EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
2-Fluorophenol (S)	51.1	%		17-73		EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
T[illegible]enyl-d14 (S)	73.4	%		33-125		EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
P[illegible]l-d5 (S)	39.6	%		11-53		EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1
Nitrobenzene-d5 (S)	86.6	%		37-124		EPA 625	12/13/10	MPP	12/15/10 23:17	CGS	C1

Pesticides and PCBs

Aroclor-1016	0.48 U	ug/L		0.48	0.21	EPA 608	12/13/10	GMG	12/15/10 02:43	KJH	G1
Aroclor-1221	0.48 U	ug/L		0.48	0.31	EPA 608	12/13/10	GMG	12/15/10 02:43	KJH	G1
Aroclor-1232	0.48 U	ug/L		0.48	0.39	EPA 608	12/13/10	GMG	12/15/10 02:43	KJH	G1
Aroclor-1242	0.48 U	ug/L		0.48	0.23	EPA 608	12/13/10	GMG	12/15/10 02:43	KJH	G1
Aroclor-1248	0.48 U	ug/L		0.48	0.18	EPA 608	12/13/10	GMG	12/15/10 02:43	KJH	G1
Aroclor-1254	0.48 U	ug/L		0.48	0.30	EPA 608	12/13/10	GMG	12/15/10 02:43	KJH	G1
Aroclor-1260	0.48 U	ug/L		0.48	0.21	EPA 608	12/13/10	GMG	12/15/10 02:43	KJH	G1
Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyl (S)	29.5	%		30-150		EPA 608	12/13/10	GMG	12/15/10 02:43	KJH	G1
Tetrachloro-m-xylene (S)	78.8	%		36-112		EPA 608	12/13/10	GMG	12/15/10 02:43	KJH	G1

WET CHEMISTRY

Carbonaceous BOD	2.0 U	mg/L		2.0	0.9	SM20-5210 B			12/8/10 22:55	JEP	I
Nitrate-N	0.12J	mg/L		0.20	0.0080	EPA 300			12/9/10 08:58	J1H	I
Nitrite-N	0.20 U	mg/L		0.20	0.013	EPA 300			12/9/10 08:58	J1H	I
Phenolics	0.01 U	mg/L		0.01	0.004	EPA 420.4	12/15/10	KRK	12/16/10 10:33	TMG	K
Total Kjeldahl Nitrogen	1.0 U	mg/L		1.0	0.3	SM20-4500-N C	12/22/10	NJA	12/22/10 14:10	ARK	M1
Total Nitrogen	1.00 U	mg/L		1.00		Calculation			12/22/10 15:00	AH	M

METALS

Cadmium, Total	0.0010 U	mg/L		0.0010	0.00033	EPA 200.7	12/13/10	KMK	12/15/10 20:12	JWK	F1

Sample Comments:

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ANALYTICAL RESULTS

Workorder 9879474 SFM024|FT HAMILTON-NY PROJECT

Lab ID:	**9879474002**	Date Collected:	12/7/2010 11:30	Matrix:	Waste Water
Sample ID:	**FH-120710-NS-WE Comp**	Date Received:	12/8/2010 10:35		

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr

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ANALYTICAL RESULTS

Workorder 9879474 SFM024|FT HAMILTON-NY PROJECT

Lab ID: **9879474003** Date Collected: 12/7/2010 00:00 Matrix: Waste Water
Sample ID: **FH-120710-TB** Date Received: 12/8/2010 10:35

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acrolein	30.0 U	ug/L		30.0	2.4	EPA 624			12/18/10 08:33	JAH	A
Acrylonitrile	5.0 U	ug/L		5.0	0.89	EPA 624			12/18/10 08:33	JAH	A
Benzene	1.0 U	ug/L		1.0	0.16	EPA 624			12/18/10 08:33	JAH	A
Bromodichloromethane	1.0 U	ug/L		1.0	0.13	EPA 624			12/18/10 08:33	JAH	A
Bromoform	2.0 U	ug/L		2.0	0.21	EPA 624			12/18/10 08:33	JAH	A
Bromomethane	2.0 U	ug/L		2.0	0.27	EPA 624			12/18/10 08:33	JAH	A
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.24	EPA 624			12/18/10 08:33	JAH	A
Chlorobenzene	1.0 U	ug/L		1.0	0.11	EPA 624			12/18/10 08:33	JAH	A
Chlorodibromomethane	1.0 U	ug/L		1.0	0.22	EPA 624			12/18/10 08:33	JAH	A
Chloroethane	1.0 U	ug/L		1.0	0.24	EPA 624			12/18/10 08:33	JAH	A
2-Chloroethylvinyl ether	2.0 U	ug/L		2.0	0.28	EPA 624			12/18/10 08:33	JAH	A
Chloroform	1.0 U	ug/L		1.0	0.15	EPA 624			12/18/10 08:33	JAH	A
Chloromethane	1.0 U	ug/L		1.0	0.25	EPA 624			12/18/10 08:33	JAH	A
1 [illegible]hlorobenzene	1.0 U	ug/L		1.0	0.20	EPA 624			12/18/10 08:33	JAH	A
1,3-Dichlorobenzene	1.0 U	ug/L		1.0	0.14	EPA 624			12/18/10 08:33	JAH	A
1,4-Dichlorobenzene	1.0 U	ug/L		1.0	0.15	EPA 624			12/18/10 08:33	JAH	A
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.19	EPA 624			12/18/10 08:33	JAH	A
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.22	EPA 624			12/18/10 08:33	JAH	A
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.17	EPA 624			12/18/10 08:33	JAH	A
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.12	EPA 624			12/18/10 08:33	JAH	A
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.24	EPA 624			12/18/10 08:33	JAH	A
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.12	EPA 624			12/18/10 08:33	JAH	A
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.14	EPA 624			12/18/10 08:33	JAH	A
1,3-Dichloropropene, Total	1.0 U	ug/L		1.0	0.19	EPA 624			12/18/10 08:33	JAH	A
Ethylbenzene	1.0 U	ug/L		1.0	0.16	EPA 624			12/18/10 08:33	JAH	A
Methyl t-Butyl Ether	1.0 U	ug/L		1.0	0.11	EPA 624			12/18/10 08:33	JAH	A
Methylene Chloride	0.56J	ug/L		1.0	0.32	EPA 624			12/18/10 08:33	JAH	A
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.22	EPA 624			12/18/10 08:33	JAH	A
Tetrachloroethene	1.0 U	ug/L		1.0	0.26	EPA 624			12/18/10 08:33	JAH	A
Toluene	1.0 U	ug/L		1.0	0.12	EPA 624			12/18/10 08:33	JAH	A
Total Xylenes	3.0 U	ug/L		3.0	0.43	EPA 624			12/18/10 08:33	JAH	A
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.27	EPA 624			12/18/10 08:33	JAH	A
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.30	EPA 624			12/18/10 08:33	JAH	A
Trichloroethene	1.0 U	ug/L		1.0	0.21	EPA 624			12/18/10 08:33	JAH	A
Trichlorofluoromethane	1.0 U	ug/L		1.0	0.21	EPA 624			12/18/10 08:33	JAH	A
Vinyl Chloride	2.0 U	ug/L		2.0	0.24	EPA 624			12/18/10 08:33	JAH	A

Library Search - Volatiles

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	107	%		72-142	EPA 624			12/18/10 08:33	JAH	A
4[illegible]ofluorobenzene (S)	91.9	%		73-119	EPA 624			12/18/10 08:33	JAH	A
Di[illegible]ofluoromethane (S)	99	%		74-132	EPA 624			12/18/10 08:33	JAH	A
Toluene-d8 (S)	118	%		75-133	EPA 624			12/18/10 08:33	JAH	A

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ANALYTICAL RESULTS

Workorder 9879474 SFM024|FT HAMILTON-NY PROJECT

Lab ID:	**9879474003**	Date Collected:	12/7/2010 00:00	Matrix:	Waste Water
Sample ID:	**FH-120710-TB**	Date Received:	12/8/2010 10:35		

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr

Sample Comments:

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder 9879474 SFM024|FT HAMILTON-NY PROJECT

PARAMETER QUALIFIERS\FLAGS

[1] According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)

[2] Sample did not flash up to 200 degrees F.

[3] Analyte was analyzed past the 24 hour holding time.

Case Narrative

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Analytical Narrative
Shaw E & I
SFM-024

Sample Management

This report contains the results of the analysis of three (3) waste water samples collected on December 7, 2010. Analytical results and quality control information are summarized in this data package.

Sample Receipt

The samples arrived at ALSI via courier on December 8, 2010. Upon receipt, the samples were inspected and compared to the enclosed chain of custody. The samples were assigned a unique identification number (see the Certificate of Analysis). The sample information was entered into the computer system and the samples were released for analysis.

Volatile Organics by EPA Method 624

Sample Handling. Three (3) waste water samples were analyzed on MS03 by EPA Method 624 for volatile organic compounds. All analyses were performed within the holding time.

Initial Calibrations. A six-point calibration was analyzed on MS03 on December 10, 2010. This calibration was used to quantitate the samples, blank and spikes. The initial calibration met method criteria for all target analytes.

Continuing Calibration Checks. Calibration check standards were properly analyzed.

- In general, if quality assurance data indicate a potential high bias, sample results are not qualified and no corrective action is taken unless there are positive results above the reporting limit on the analytical batch where the high bias exists. Acrolein shows a high bias, but was non-detect in the samples.
- The continuing calibration check standards met method criteria for all other target analytes.

Blanks. One method blank, identified as 784599, was analyzed with the samples in this deliverable group. Chloroform was detected at 0.39J µg/L. No other target analytes were detected in the method blank.

Surrogates. A four-component surrogate mix was added to each sample, blank and spike. All surrogate recoveries were recovered within control limits in the samples, blanks and spikes.

Internal Standards. A three-component internal standard mix was added to the samples, blank and spike. The internal standards met method criteria in the samples, blanks and spikes.

Spiked Blanks. One spiked blank, identified as 784600, was analyzed with the samples in this deliverable group. Acrolein was recovered above control limits. All other target analytes were recovered within control limits in the spiked blank.

Semi-volatile Organic Compounds by EPA Method 625

Sample Handling. One (1) waste water sample was extracted and analyzed by EPA method 625 for semi-volatile organic compounds. The sample, extraction blank and blank spike were analyzed on MS02. All extractions and analyses were performed within holding time.

Initial Calibrations. An eight-point calibration for EPA Method 625 was analyzed on MS02 on December 14, 2010. This calibration was used for the analysis of the sample, blank and blank spike. The initial calibration met EPA Method 625 criteria for all target analytes.

Calibration Checks. Calibration check standards were properly analyzed each day the extracts were analyzed. The continuing calibration check standard met EPA Method 625 criteria for all target analytes.

Blanks. A method blank, identified as 782027, was extracted and analyzed with the samples in this deliverable group. No target analytes were detected in the method blank.

Surrogates. A six-component surrogate mix was added to each sample, blank and spike. All surrogate recoveries were recovered within control limits in the sample, blank and spikes.

Internal Standards. A six-component internal standard mix was added to each sample, blank and spike. All internal standards met method criteria in the sample, blank and spikes.

Blank Spikes. A blank spike, identified as 782028, was extracted and analyzed with the samples in this deliverable group. All target analytes were recovered within control limits in the spiked blank.

Polychlorinated Biphenyls as Aroclors by EPA Method 608

Sample Handling. One (1) waste water sample was extracted and analyzed for polychlorinated biphenyls as Aroclor by EPA Method 608. The sample extraction and analysis was performed within the holding time associated with the method.

Reporting. The sample was analyzed using dual-column instrumentation. The results from the primary column (RTX-440) were evaluated for quantitative purposes and the results from secondary column (RTX-CLPEST-2) were evaluated for qualitative purposes. Raw data from both columns are provided for reviewing purposes.

Initial Calibrations. The initial calibration was performed on GC05 on December 14, 2010. After the initial calibration was conducted, it was verified with an initial calibration verification standard prepared from a lot of material independent of that used to calibrate the instrument. Standards used for the second source initial calibration verification consisted of the appropriate Aroclor(s) each at 1.0 ng/µL. All results met method criteria for all Aroclors.

Calibration verification. The initial calibration was verified prior to sample analysis and every 12 hours, thereafter with a continuing calibration verification standard (CCV). The average peak concentration of each Aroclor was in control.

Surrogates. A two-component surrogate mix was added to each sample, blank and spike. All surrogate recoveries were within control limits.

Blanks. One method blank, identified as 782085, was extracted and analyzed with the samples in this group. Polychlorinated biphenyls as Aroclors were not detected in the method blank.

Spiked Blanks. A spiked blank, identified as 782086, was extracted and analyzed with the sample in this deliverable group. Aroclors were recovered within control limits in the spiked blank.

Total metals by EPA Method 200.7

Sample handling. Two (2) waste water samples were hot-block digested and analyzed for total metals on the ThermoFisher ICP6500 using EPA Method 200.7. The samples were analyzed within the six-month holding time established for the method.

Calibration. The day that the samples were analyzed, an initial four-point calibration was properly established and verified through the analysis of a second source calibration verification standard (QCS), an initial calibration blank (S0), an initial performance check (IPC), a reporting limit standard, an interference check standard (ICSA), and an additional interference check standard (ICSAB). Calibration checks were analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibration and check standards were within the control limits for all analytes relevant to this data package

Blanks. Reagent (calibration) blanks were analyzed following the calibration, after every ten samples, and at the conclusion of the run. Cadmium was detected in the continuing calibration blanks run at 11:22 and 15:56, at a concentration above the MDL, but below the PQL. No other Metals were detected in the reagent blanks. A method blank, identified as 781939-MB, was digested and analyzed with the samples in this deliverable group. Metals were not detected in the method blank.

Laboratory Control Sample. A laboratory control sample, identified as 781940-LCS was digested and analyzed with the samples in this deliverable group. The LCS spike recoveries were within the control limits of 85-115% for all metals.

Spikes. A matrix spike and matrix spike duplicate identified as 781941 and 781942, were digested and analyzed on non-project batch MS/MSD sample 9876948001, with this deliverable group. The MS/MSD recoveries and their RPDs were all within the method control limits.

A matrix spike identified as 781943, was also digested and analyzed on non-project batch MS sample 9879530001, with this deliverable group. The MS recoveries were all within the method control limits.

Total Mercury by EPA Method 245.1

Sample handling. One (1) waste water sample was analyzed for total mercury on the CETAC Hg Analyzer, using EPA method 245.1. The sample was digested and analyzed within the 28-day holding time established for the method.

Calibration. The day that the sample was analyzed, an initial five-point calibration was properly established and verified through the analysis of a second source calibration verification standard. Calibration check standards were analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibration and check standards were within method control limits.

Blanks. Reagent (calibration) blanks were analyzed following the calibration, after every ten samples, and at the conclusion of the run. Mercury was not detected in the reagent blanks. A method blank, identified as 782504-MB, was digested and analyzed with the sample in this deliverable group. Mercury was not detected in the method blank.

Laboratory Control Samples. A laboratory control samples (LCS), identified as 782505-LCS, was digested and analyzed for total mercury with the sample in this deliverable group. The laboratory control sample was recovered within the control limits for this method.

Spikes. A matrix spike/matrix spike duplicate identified as 782506 and 782507, were digested and analyzed on batch MS/MSD sample 9880282001, with this deliverable group. The mercury MS/MSD recoveries were below method control limits, and a post digestion spike was performed. The post spike recovery was also below method control limits.

A matrix spike/matrix spike duplicate identified as 782508 and 782509, were digested and analyzed on batch MS/MSD sample 9880293001, with this deliverable group. The mercury

MS/MSD recoveries were below method control limits, and a post digestion spike was performed. The post spike recovery was also below method control limits.

Anions by EPA 300.0

Sample handling. One (1) waste water sample was analyzed for chloride and one (1) waste water sample was analyzed for nitrite and nitrate by EPA Method 300.0. The samples were analyzed within the method recommended holding time for each analyte.

Calibration. Initial seven-point calibrations, identified as Method A (high range) and Method L (low range), were properly established for IC#3 on 11/11/10. The calibrations were verified by initial calibration verification standards and continuing calibration verification standards on the day of analysis. The calibration verification recoveries were within the QC limits of 90-110%.

Blanks. Initial and continuing blanks were analyzed with the samples. Chloride was not detected above the reporting limit in the blanks.

Laboratory Control Samples. Laboratory control samples, identified as LCS and SSL, were analyzed initially and after every 20 samples. Recoveries were within the QC limits of 90-110%.

Carbonaceous Biochemical Oxygen Demand by SM 5210B

Sample handling. One (1) waste water sample was analyzed for carbonaceous biochemical oxygen demand by Standard Method 5210B. The sample was analyzed within the 48-hour holding time established for the method.

Blank. A preparation blank, identified as 780590, was analyzed with the samples. Carbonaceous biochemical oxygen demand was not detected above the reporting limit in the blank.

Laboratory Control Sample. A laboratory control sample, identified as 780591, was analyzed and recovered within the QC limits of 85-115%.

Hexavalent Chromium by SM 3500CrD

Sample handling. One (1) waste water sample was analyzed for hexavalent chromium by Standard Method 3500CrD. The sample was analyzed after the method-recommended 24-hour hold time had expired.

Calibration. A quarterly five-point calibration was properly established on 10/15/10. On the day of analysis, continuing calibration verification standards were analyzed to verify the calibration. The standards were within the QC limits of 90-110%.

Blanks. Method blanks were analyzed with the samples. Hexavalent chromium was not detected above the reporting limit in the blanks.

Flashpoint by SW-846 Method 1010

Sample handling. One (1) waste water sample was analyzed for flashpoint by SW-846 Method 1010. The sample was analyzed within the hold time established for the method.

Calibration. A standard, identified as p-xylene, was analyzed with the sample. The flashpoint of the standard was within the QC limits of +/- 2° F.

Dulicate. A duplicate analysis, identified as 785436, was performed on sample 9879474001 (FH-120710-NS-WE Grab). The duplicate results were identical.

Oil and Grease by EPA 1664A

Sample handling. One (1) waste water sample was analyzed for silica gel treated oil and grease by EPA Method 1664A. The sample was extracted and analyzed within the 28-day holding time established for the method.

Blanks. A preparation blank, identified as 784764, was extracted and analyzed with the sample. Oil and grease was not found above the reporting limit in the blank.

Laboratory Control Sample. A laboratory control sample, identified as 784765, was extracted and analyzed with the sample. The silica gel treated oil and grease recovery was within the QC limits of 64-132%.

pH by SM4500HB

Sample handling. One (1) waste water sample was analyzed for pH by Standard Method 4500HB. The sample was analyzed after the 24-hour method-recommended holding time had expired.

Calibration. The pH meter was calibrated for the normal pH range of 4.00 to 10.00 on the day of analysis. The calibration was validated by analyzing a standard prior to the analysis of samples and after every ten samples during the run. All standards were found to be within QC limits of +/- 0.05 pH units.

Nitrogen, Total by Calculation

Sample handling. One (1) waste water sample had total nitrogen results computed by calculation.

Total Kjeldahl Nitrogen by SM 4500NC

Sample handling. One (1) waste water sample was analyzed for total kjeldahl nitrogen by Standard Method 4500NC. The sample was digested, distilled and analyzed within the 28-day holding time established for the method.

Calibration. An initial four-point calibration was properly established within 24-hours of the analysis and continuing calibration standards were analyzed to verify the calibration. Recoveries were within the QC limits of 90-110%.

Blank. A preparation blank, identified as 785436, was digested, distilled and analyzed with the samples. Initial and continuing method blanks were analyzed. Total kjeldahl nitrogen was not detected above the reporting limit of 1.0 mg/L in the blanks.

Laboratory Control Sample. A laboratory control sample, identified as 785437, was digested, distilled and analyzed with the samples. The recovery was within the QC limits of 90-110%.

Phenols by EPA 420.4

Sample handling. One (1) waste water sample was analyzed for phenols by EPA Method 420.4. The sample was distilled and analyzed within the 14-day holding time established for the method.

Calibration. An initial six-point calibration was properly established on the day of analysis, and continuing calibration standards were analyzed to verify the calibration. All continuing calibration standards were within QC limits of 90-110%.

Blanks. A preparation blank, identified as 782765, was distilled and analyzed with the samples. Initial and continuing method blanks were also analyzed. Phenols were not detected above the reporting limit in the blanks.

Laboratory Control Sample. A laboratory control sample, identified as 782766, was distilled and analyzed with the samples. The recovery was within the QC limits of 90-110%.

Total Solids on Water by SM 2540B

Sample handling. One (1) waste water sample was analyzed for total solids by Standard Method 2540B. The sample was analyzed within the 7-day method recommended hold time.

Blank. A preparation blank, identified as 780874, was analyzed with the samples. Total solids were not detected above the reporting limit in the blank.

Laboratory Control Sample. A laboratory control sample, identified as LCS, was analyzed with the samples. The recovery was within the QC limits of 90-110%.

Total Suspended Solids by SM2540D

Sample handling. One (1) waste water sample was analyzed for total suspended solids by Standard Method 2540D. The sample was analyzed within the 7-day method recommended holding time.

Blank. A preparation blank, identified as 780620, was analyzed with the samples. Total suspended solids were not detected above the reporting limit in the blank.

Quarterly (USACE)

Influent & Effluent Analytical Results

For Samples Collected on October 28, 2010

Volatile Organic Compounds by Method 8260

Semi-Volatile organic Compounds by Method 8270

(Extracted Water)

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PROJECT TITLE: Shaw E & I
FORT HAMILTON-NY PROJECT

Data Deliverable Group
SFM-021

CLP-Like
DATA PACKAGE

SAMPLES COLLECTED
October 28, 2010

34 Dogwood Lane ✦ Middletown, PA 17057
TEL: 717-944-5541 ✦ FAX: 717-944-1430 ✦ 1-800-794-7709

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Chain of Custody Records

Report ID: 9873407

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Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1
Courier: UPS
Tracking #: 1Z 12 [illegible] 1002 5625
98734 07

Co. Name: SHAW E&I
Contact Name: Michelle Lobsiger
Phone: 973-770-6313
Address: 111 Hartman Blvd. Suite 110 Mt. Arlington, NJ 07856

Bill to (if different than Report to): SAME
PO#:
Project Name/#:
ALSI Quote #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:
Email? [X] Y michelle.lobsiger@shawgrp.com
Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOCs (8260)	SVOCs (8270)												
***Container Type				G	G														
***Container Size				40 ml	1L														
***Preservative				HCl	None														
1 FH-100810-NS-WE (USNG)	Influent	10/08/10	1115	G	GW	2	2												
2 FH-100810-NS-WE (USNG)	Effluent	10/08/10	1130	G	GW	2	2												
3 FH-100810-TB	Trip Blank (8260)	10/08/10	—	—	GW	2	—												
4																			
5																			
6																			
7																			
8																			

ANALYSES/METHOD REQUESTED — Enter Number of Containers Per Analysis

Receipt Information (completed by lab technician)
Received by: [illegible]
Cooler Temp: 0
Therm. ID: 10133524
No. of Cooler:
Notes:

	Y	N
Custody seals Present?	Y	N
(If present) Seals intact?	Y	N
Received on Ice?	Y	N
COC/Labels complete/accurate?	Y	N
Container in good condition?	Y	N
Correct containers?	Y	N
Correct sample volume?	Y	N
Correct preservation?	Y	N
Headspace/bubbles?	Y	N
Circle appropriate Y or N.		

SAMPLED BY (Please Print): Terry McHugh
LOGGED BY (signature): [illegible] DATE 10/29/10 TIME 1449
REVIEWED BY (signature): O'Brien DATE 11/15/10 TIME 918

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [illegible]	10/08/10	1550	2 [illegible] ALSI	10/8/10	1015
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-Like [ ] NJ-Reduced [ ] NJ-FULL [ ] EDD: [ ] If yes, format type:
SDWA Forms? yes / yes / yes / yes
State Samples Collected in? MD / NJ / NY / PA / Other
Enter PWSID No.
DOD Criteria Required?

ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

*G=Grab; C=Composite **Matrix: Ab=Air; DW=Drinking Water; GW=Groundwater; O=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 6/07

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ACCREDITED IN ACCORDANCE WITH NELAP

ALSI Laboratory Analysis Reports

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Certificate of Analysis

Project Name:	FORT HAMILTON-NY PROJECT	Workorder:	9873407
Purchase Order:	454617	Workorder ID:	SFM021|FT HAMILTON-NY PROJECT

Mr. Terence McHugh
Shaw E & I Inc.-Mt Arlington-NJ
111 Howard Blvd., Suite 110
Mount Arlington, NJ 07856

November 8, 2010

Dear Mr. McHugh,

Enclosed are the analytical results for samples received by the laboratory on Friday, October 29, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Denise Brooks (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Ms. Michelle Lobsiger

page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder 9873407 SFM021|FT HAMILTON-NY PROJECT

Discard Date: 11/22/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9873407001	FH-102810-NS-WI (USACE)	Water	10/28/10 11:15	10/29/10 10:15	Terence McHugh
9873407002	FH-102810-NS-WE (USACE)	Water	10/28/10 11:30	10/29/10 10:15	Terence McHugh
9873407003	FH-102810-TB	Water	10/28/10 00:00	10/29/10 10:15	Terence McHugh

Workorder Comments:

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
DL	Method Detection Limit
QL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder 9873407 SFM021|FT HAMILTON-NY PROJECT

Lab ID: 9873407001
Sample ID: FH-102810-NS-WI (USACE)
Date Collected: 10/28/2010 11:15
Date Received: 10/29/2010 10:15
Matrix: Water

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	10.0 U	ug/L		10.0	3.1	SW846 8260B			11/5/10 05:14	DD	B
Benzene	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/5/10 05:14	DD	B
Bromochloromethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			11/5/10 05:14	DD	B
Bromodichloromethane	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/5/10 05:14	DD	B
Bromoform	1.0 U	ug/L		1.0	0.28	SW846 8260B			11/5/10 05:14	DD	B
Bromomethane	1.0 U	ug/L		1.0	0.24	SW846 8260B			11/5/10 05:14	DD	B
2-Butanone	10.0 U	ug/L		10.0	2.1	SW846 8260B			11/5/10 05:14	DD	B
Carbon Disulfide	1.0 U	ug/L		1.0	0.12	SW846 8260B			11/5/10 05:14	DD	B
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.25	SW846 8260B			11/5/10 05:14	DD	B
Chlorobenzene	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/5/10 05:14	DD	B
Chlorodibromomethane	1.0 U	ug/L		1.0	0.26	SW846 8260B			11/5/10 05:14	DD	B
Chloroethane	1.0 U	ug/L		1.0	0.19	SW846 8260B			11/5/10 05:14	DD	B
Chloroform	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/5/10 05:14	DD	B
Chloromethane	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/5/10 05:14	DD	B
1,2-Dibromo-3-[illegible]propane	7.0 U	ug/L		7.0	0.96	SW846 8260B			11/5/10 05:14	DD	B
[illegible]ibromoethane	1.0 U	ug/L		1.0	0.30	SW846 8260B			11/5/10 05:14	DD	B
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.15	SW846 8260B			11/5/10 05:14	DD	B
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			11/5/10 05:14	DD	B
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.17	SW846 8260B			11/5/10 05:14	DD	B
cis-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.17	SW846 8260B			11/5/10 05:14	DD	B
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.20	SW846 8260B			11/5/10 05:14	DD	B
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/5/10 05:14	DD	B
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.18	SW846 8260B			11/5/10 05:14	DD	B
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.14	SW846 8260B			11/5/10 05:14	DD	B
Ethylbenzene	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/5/10 05:14	DD	B
2-Hexanone	5.0 U	ug/L		5.0	0.78	SW846 8260B			11/5/10 05:14	DD	B
Methyl t-Butyl Ether	1.0 U	ug/L		1.0	0.18	SW846 8260B			11/5/10 05:14	DD	B
4-Methyl-2-Pentanone(MIBK)	5.0 U	ug/L		5.0	0.41	SW846 8260B			11/5/10 05:14	DD	B
Methylene Chloride	1.0 U	ug/L		1.0	0.32	SW846 8260B			11/5/10 05:14	DD	B
Styrene	1.0 U	ug/L		1.0	0.10	SW846 8260B			11/5/10 05:14	DD	B
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.22	SW846 8260B			11/5/10 05:14	DD	B
Tetrachloroethene	1.0 U	ug/L		1.0	0.28	SW846 8260B			11/5/10 05:14	DD	B
Toluene	1.0 U	ug/L		1.0	0.19	SW846 8260B			11/5/10 05:14	DD	B
Total Xylenes	3.0 U	ug/L		3.0	0.61	SW846 8260B			11/5/10 05:14	DD	B
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.29	SW846 8260B			11/5/10 05:14	DD	B
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.29	SW846 8260B			11/5/10 05:14	DD	B
Trichloroethene	1.0 U	ug/L		1.0	0.33	SW846 8260B			11/5/10 05:14	DD	B
Vinyl Chloride	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/5/10 05:14	DD	B
o-Xylene	1.0 U	ug/L		1.0	0.24	SW846 8260B			11/5/10 05:14	DD	B
mp-Xylene	2.0 U	ug/L		2.0	0.51	SW846 8260B			11/5/10 05:14	DD	B

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1[illegible]hloroethane-d4 (S)	92.3	%		62-133	SW846 8260B			11/5/10 05:14	DD	B
4-[illegible]ofluorobenzene (S)	92.1	%		79-114	SW846 8260B			11/5/10 05:14	DD	B
Dibromofluoromethane (S)	92.1	%		78-116	SW846 8260B			11/5/10 05:14	DD	B

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ANALYTICAL RESULTS

Workorder 9873407 SFM021|FT HAMILTON-NY PROJECT

Lab ID: 9873407001 Date Collected: 10/28/2010 11:15 Matrix: Water
Sample ID: FH-102810-NS-WI (USACE) Date Received: 10/29/2010 10:15

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene-d8 (S)	96	%		76-127		SW846 8260B			11/5/10 05:14	DD	B
SEMIVOLATILES											
Acenaphthene	1.4 U	ug/L		1.4	0.48	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Acenaphthylene	1.4 U	ug/L		1.4	0.32	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Anthracene	1.4 U	ug/L		1.4	0.42	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Benzo(a)anthracene	1.4 U	ug/L		1.4	0.30	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Benzo(a)pyrene	1.4 U	ug/L		1.4	0.31	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Benzo(b)fluoranthene	1.4 U	ug/L		1.4	0.32	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Benzo(g,h,i)perylene	1.4 U	ug/L		1.4	0.41	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Benzo(k)fluoranthene	1.4 U	ug/L		1.4	0.36	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
4-Bromophenyl-phenylether	2.8 U	ug/L		2.8	0.37	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Butylbenzylphthalate	2.8 U	ug/L		2.8	0.45	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Carbazole	2.8 U	ug/L		2.8	0.28	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
4-Chloro-3-methylphenol	7.6 U	ug/L		7.6	0.89	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
4-Chloroaniline	2.8 U	ug/L		2.8	0.85	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
bis(2-Chloroethoxy)methane	2.8 U	ug/L		2.8	0.76	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
bis(2-Chloroethyl)ether	2.8 U	ug/L		2.8	0.47	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
bis(2-Chloroisopropyl)ether	2.8 U	ug/L		2.8	0.59	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
2-Chloronaphthalene	2.8 U	ug/L		2.8	0.37	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
2-Chlorophenol	7.6 U	ug/L		7.6	0.80	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
4-Chlorophenyl-phenylether	2.8 U	ug/L		2.8	0.51	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Chrysene	1.4 U	ug/L		1.4	0.31	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
mp-Cresol	7.6 U	ug/L		7.6	0.48	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
o-Cresol	7.6 U	ug/L		7.6	0.46	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Di-n-Butylphthalate	2.8 U	ug/L		2.8	0.42	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Di-n-Octylphthalate	7.6 U	ug/L		7.6	0.53	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Dibenzo(a,h)anthracene	1.9 U	ug/L		1.9	0.89	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Dibenzofuran	2.8 U	ug/L		2.8	0.69	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
1,2-Dichlorobenzene	2.8 U	ug/L		2.8	0.35	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
1,3-Dichlorobenzene	2.8 U	ug/L		2.8	0.45	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
1,4-Dichlorobenzene	2.8 U	ug/L		2.8	0.60	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
3,3-Dichlorobenzidine	15.2 U	ug/L		15.2	2.6	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
2,4-Dichlorophenol	7.6 U	ug/L		7.6	0.58	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Diethylphthalate	7.6 U	ug/L		7.6	0.31	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
2,4-Dimethylphenol	7.6 U	ug/L		7.6	2.0	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Dimethylphthalate	7.6 U	ug/L		7.6	0.51	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
2,4-Dinitrophenol	15.2 U	ug/L		15.2	3.4	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
2,4-Dinitrotoluene	2.8 U	ug/L		2.8	0.37	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
2,6-Dinitrotoluene	2.8 U	ug/L		2.8	0.33	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
bis(2-Ethylhexyl)phthalate	2.8 U	ug/L		2.8	0.55	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Fluoranthene	1.4 U	ug/L		1.4	0.33	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Fluorene	1.4 U	ug/L		1.4	0.38	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Hexachlorobenzene	2.8 U	ug/L		2.8	0.51	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Hexachlorobutadiene	2.8 U	ug/L		2.8	0.47	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Hexachlorocyclopentadiene	7.6 U	ug/L		7.6	1.1	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Hexachloroethane	2.8 U	ug/L		2.8	0.82	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1

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ANALYTICAL RESULTS

Workorder 9873407 SFM021|FT HAMILTON-NY PROJECT

Lab ID: **9873407001** Date Collected: 10/28/2010 11:15 Matrix: Water

Sample ID: **FH-102810-NS-WI (USACE)** Date Received: 10/29/2010 10:15

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Indeno(1,2,3-cd)pyrene	1.4 U	ug/L		1.4	0.25	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Isophorone	2.8 U	ug/L		2.8	0.58	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
2-Methyl-4,6-dinitrophenol	7.6 U	ug/L	1	7.6	2.3	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
2-Methylnaphthalene	1.9 U	ug/L		1.9	0.90	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Naphthalene	1.4 U	ug/L		1.4	0.44	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
2-Nitroaniline	2.8 U	ug/L		2.8	0.33	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
3-Nitroaniline	2.8 U	ug/L		2.8	1.0	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
4-Nitroaniline	2.8 U	ug/L		2.8	0.43	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Nitrobenzene	2.8 U	ug/L		2.8	0.65	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
2-Nitrophenol	7.6 U	ug/L		7.6	1.4	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
4-Nitrophenol	7.6 U	ug/L	2	7.6	2.8	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
N-Nitroso-di-n-propylamine	2.8 U	ug/L		2.8	0.53	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
N-Nitrosodiphenylamine	2.8 U	ug/L		2.8	0.79	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Pentachlorophenol	15.2 U	ug/L	3	15.2	2.5	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Phenanthrene	1.4 U	ug/L		1.4	0.31	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Phenol	7.6 U	ug/L		7.6	0.68	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
[illegible]e	1.4 U	ug/L		1.4	0.48	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
[illegible]-Trichlorobenzene	2.8 U	ug/L		2.8	0.61	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
2,4,5-Trichlorophenol	7.6 U	ug/L	4	7.6	1.7	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
2,4,6-Trichlorophenol	7.6 U	ug/L	5	7.6	0.52	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	91.6	%		40-125	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
2-Fluorobiphenyl (S)	68.5	%		50-110	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
2-Fluorophenol (S)	42.3	%		20-75	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Nitrobenzene-d5 (S)	69.8	%		40-110	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Phenol-d5 (S)	28.3	%		13-49	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1
Terphenyl-d14 (S)	79.6	%		50-122	SW846 8270D	11/4/10	GEC	11/4/10 22:08	CGS	C1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9873407 SFM021|FT HAMILTON-NY PROJECT

Lab ID: **9873407002** Date Collected: 10/28/2010 11:30 Matrix: Water
Sample ID: **FH-102810-NS-WE (USACE)** Date Received: 10/29/2010 10:15

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	10.0 U	ug/L		10.0	3.1	SW846 8260B			11/5/10 05:49	DD	B
Benzene	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/5/10 05:49	DD	B
Bromochloromethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			11/5/10 05:49	DD	B
Bromodichloromethane	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/5/10 05:49	DD	B
Bromoform	1.0 U	ug/L		1.0	0.28	SW846 8260B			11/5/10 05:49	DD	B
Bromomethane	1.0 U	ug/L		1.0	0.24	SW846 8260B			11/5/10 05:49	DD	B
2-Butanone	10.0 U	ug/L		10.0	2.1	SW846 8260B			11/5/10 05:49	DD	B
Carbon Disulfide	1.0 U	ug/L		1.0	0.12	SW846 8260B			11/5/10 05:49	DD	B
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.25	SW846 8260B			11/5/10 05:49	DD	B
Chlorobenzene	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/5/10 05:49	DD	B
Chlorodibromomethane	1.0 U	ug/L		1.0	0.26	SW846 8260B			11/5/10 05:49	DD	B
Chloroethane	1.0 U	ug/L		1.0	0.19	SW846 8260B			11/5/10 05:49	DD	B
Chloroform	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/5/10 05:49	DD	B
Chloromethane	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/5/10 05:49	DD	B
1,2-Dibromo-3-propane	7.0 U	ug/L		7.0	0.96	SW846 8260B			11/5/10 05:49	DD	B
1,2-Dibromoethane	1.0 U	ug/L		1.0	0.30	SW846 8260B			11/5/10 05:49	DD	B
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.15	SW846 8260B			11/5/10 05:49	DD	B
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			11/5/10 05:49	DD	B
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.17	SW846 8260B			11/5/10 05:49	DD	B
cis-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.17	SW846 8260B			11/5/10 05:49	DD	B
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.20	SW846 8260B			11/5/10 05:49	DD	B
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/5/10 05:49	DD	B
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.18	SW846 8260B			11/5/10 05:49	DD	B
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.14	SW846 8260B			11/5/10 05:49	DD	B
Ethylbenzene	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/5/10 05:49	DD	B
2-Hexanone	5.0 U	ug/L		5.0	0.78	SW846 8260B			11/5/10 05:49	DD	B
Methyl t-Butyl Ether	1.0 U	ug/L		1.0	0.18	SW846 8260B			11/5/10 05:49	DD	B
4-Methyl-2-Pentanone(MIBK)	5.0 U	ug/L		5.0	0.41	SW846 8260B			11/5/10 05:49	DD	B
Methylene Chloride	1.0 U	ug/L		1.0	0.32	SW846 8260B			11/5/10 05:49	DD	B
Styrene	1.0 U	ug/L		1.0	0.10	SW846 8260B			11/5/10 05:49	DD	B
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.22	SW846 8260B			11/5/10 05:49	DD	B
Tetrachloroethene	1.0 U	ug/L		1.0	0.28	SW846 8260B			11/5/10 05:49	DD	B
Toluene	1.0 U	ug/L		1.0	0.19	SW846 8260B			11/5/10 05:49	DD	B
Total Xylenes	3.0 U	ug/L		3.0	0.61	SW846 8260B			11/5/10 05:49	DD	B
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.29	SW846 8260B			11/5/10 05:49	DD	B
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.29	SW846 8260B			11/5/10 05:49	DD	B
Trichloroethene	1.0 U	ug/L		1.0	0.33	SW846 8260B			11/5/10 05:49	DD	B
Vinyl Chloride	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/5/10 05:49	DD	B
o-Xylene	1.0 U	ug/L		1.0	0.24	SW846 8260B			11/5/10 05:49	DD	B
mp-Xylene	2.0 U	ug/L		2.0	0.51	SW846 8260B			11/5/10 05:49	DD	B

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	95.5	%		62-133	SW846 8260B			11/5/10 05:49	DD	B
Toluene-d8 (S)	97.8	%		76-127	SW846 8260B			11/5/10 05:49	DD	B
Dibromofluoromethane (S)	96.9	%		78-116	SW846 8260B			11/5/10 05:49	DD	B

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ANALYTICAL RESULTS

Workorder 9873407 SFM021|FT HAMILTON-NY PROJECT

Lab ID: **9873407002** Date Collected: 10/28/2010 11:30 Matrix: Water

Sample ID: **FH-102810-NS-WE (USACE)** Date Received: 10/29/2010 10:15

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4-Bromofluorobenzene (S)	97.4	%		79-114		SW846 8260B			11/5/10 05:49	DD	B
SEMIVOLATILES											
Acenaphthene	1.4 U	ug/L		1.4	0.49	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Acenaphthylene	1.4 U	ug/L		1.4	0.33	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Anthracene	1.4 U	ug/L		1.4	0.42	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Benzo(a)anthracene	1.4 U	ug/L		1.4	0.31	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Benzo(a)pyrene	1.4 U	ug/L		1.4	0.32	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Benzo(b)fluoranthene	1.4 U	ug/L		1.4	0.33	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Benzo(g,h,i)perylene	1.4 U	ug/L		1.4	0.41	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Benzo(k)fluoranthene	1.4 U	ug/L		1.4	0.37	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
4-Bromophenyl-phenylether	2.9 U	ug/L		2.9	0.38	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Butylbenzylphthalate	2.9 U	ug/L		2.9	0.45	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Carbazole	2.9 U	ug/L		2.9	0.29	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
4-Chloro-3-methylphenol	7.7 U	ug/L		7.7	0.90	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
4-Chloroaniline	2.9 U	ug/L		2.9	0.87	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Chloroethoxy)methane	2.9 U	ug/L		2.9	0.77	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
-Chloroethyl)ether	2.9 U	ug/L		2.9	0.48	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
bis(2-Chloroisopropyl)ether	2.9 U	ug/L		2.9	0.60	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
2-Chloronaphthalene	2.9 U	ug/L		2.9	0.38	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
2-Chlorophenol	7.7 U	ug/L		7.7	0.81	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
4-Chlorophenyl-phenylether	2.9 U	ug/L		2.9	0.52	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Chrysene	1.4 U	ug/L		1.4	0.32	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
mp-Cresol	7.7 U	ug/L		7.7	0.49	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
o-Cresol	7.7 U	ug/L		7.7	0.47	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Di-n-Butylphthalate	2.9 U	ug/L		2.9	0.42	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Di-n-Octylphthalate	7.7 U	ug/L		7.7	0.54	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Dibenzo(a,h)anthracene	1.9 U	ug/L		1.9	0.90	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Dibenzofuran	2.9 U	ug/L		2.9	0.70	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
1,2-Dichlorobenzene	2.9 U	ug/L		2.9	0.36	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
1,3-Dichlorobenzene	2.9 U	ug/L		2.9	0.45	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
1,4-Dichlorobenzene	2.9 U	ug/L		2.9	0.61	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
3,3-Dichlorobenzidine	15.4 U	ug/L		15.4	2.6	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
2,4-Dichlorophenol	7.7 U	ug/L		7.7	0.59	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Diethylphthalate	7.7 U	ug/L		7.7	0.32	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
2,4-Dimethylphenol	7.7 U	ug/L		7.7	2.0	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Dimethylphthalate	7.7 U	ug/L		7.7	0.52	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
2,4-Dinitrophenol	15.4 U	ug/L		15.4	3.5	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
2,4-Dinitrotoluene	2.9 U	ug/L		2.9	0.38	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
2,6-Dinitrotoluene	2.9 U	ug/L		2.9	0.34	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
bis(2-Ethylhexyl)phthalate	2.9 U	ug/L		2.9	0.56	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Fluoranthene	1.4 U	ug/L		1.4	0.34	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Fluorene	1.4 U	ug/L		1.4	0.38	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Hexachlorobenzene	2.9 U	ug/L		2.9	0.52	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
hlorobutadiene	2.9 U	ug/L		2.9	0.48	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
lorocyclopentadiene	7.7 U	ug/L		7.7	1.2	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Hexachloroethane	2.9 U	ug/L		2.9	0.84	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1

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ANALYTICAL RESULTS

Workorder 9873407 SFM021|FT HAMILTON-NY PROJECT

Lab ID: **9873407002** Date Collected: 10/28/2010 11:30 Matrix: Water

Sample ID: **FH-102810-NS-WE (USACE)** Date Received: 10/29/2010 10:15

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Indeno(1,2,3-cd)pyrene	1.4 U	ug/L		1.4	0.25	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Isophorone	2.9 U	ug/L		2.9	0.59	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
2-Methyl-4,6-dinitrophenol	7.7 U	ug/L	1	7.7	2.3	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
2-Methylnaphthalene	1.9 U	ug/L		1.9	0.91	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Naphthalene	1.4 U	ug/L		1.4	0.44	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
2-Nitroaniline	2.9 U	ug/L		2.9	0.34	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
3-Nitroaniline	2.9 U	ug/L		2.9	1.1	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
4-Nitroaniline	2.9 U	ug/L		2.9	0.43	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Nitrobenzene	2.9 U	ug/L		2.9	0.66	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
2-Nitrophenol	7.7 U	ug/L		7.7	1.4	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
4-Nitrophenol	7.7 U	ug/L	2	7.7	2.9	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
N-Nitroso-di-n-propylamine	2.9 U	ug/L		2.9	0.54	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
N-Nitrosodiphenylamine	2.9 U	ug/L		2.9	0.80	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Pentachlorophenol	15.4 U	ug/L	3	15.4	2.5	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Phenanthrene	1.4 U	ug/L		1.4	0.32	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Phenol	7.7 U	ug/L		7.7	0.69	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
ne	1.4 U	ug/L		1.4	0.49	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
-Trichlorobenzene	2.9 U	ug/L		2.9	0.62	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
2,4,5-Trichlorophenol	7.7 U	ug/L	4	7.7	1.7	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
2,4,6-Trichlorophenol	7.7 U	ug/L	5	7.7	0.53	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	84.4	%		40-125	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
2-Fluorobiphenyl (S)	78.3	%		50-110	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
2-Fluorophenol (S)	49.3	%		20-75	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Nitrobenzene-d5 (S)	80.5	%		40-110	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Phenol-d5 (S)	32.1	%		13-49	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1
Terphenyl-d14 (S)	81.5	%		50-122	SW846 8270D	11/4/10	GEC	11/4/10 22:33	CGS	C1

Sample Comments:

Anna G Milliken
Laboratory Manager

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34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder 9873407 SFM021|FT HAMILTON-NY PROJECT

Lab ID: **9873407003** Date Collected: 10/28/2010 00:00 Matrix: Water
Sample ID: **FH-102810-TB** Date Received: 10/29/2010 10:15

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	10.0 U	ug/L		10.0	3.1	SW846 8260B			11/3/10 19:54	DJB	A
Benzene	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/3/10 19:54	DJB	A
Bromochloromethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			11/3/10 19:54	DJB	A
Bromodichloromethane	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/3/10 19:54	DJB	A
Bromoform	1.0 U	ug/L		1.0	0.28	SW846 8260B			11/3/10 19:54	DJB	A
Bromomethane	1.0 U	ug/L		1.0	0.24	SW846 8260B			11/3/10 19:54	DJB	A
2-Butanone	10.0 U	ug/L		10.0	2.1	SW846 8260B			11/3/10 19:54	DJB	A
Carbon Disulfide	1.0 U	ug/L		1.0	0.12	SW846 8260B			11/3/10 19:54	DJB	A
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.25	SW846 8260B			11/3/10 19:54	DJB	A
Chlorobenzene	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/3/10 19:54	DJB	A
Chlorodibromomethane	1.0 U	ug/L		1.0	0.26	SW846 8260B			11/3/10 19:54	DJB	A
Chloroethane	1.0 U	ug/L		1.0	0.19	SW846 8260B			11/3/10 19:54	DJB	A
Chloroform	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/3/10 19:54	DJB	A
Chloromethane	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/3/10 19:54	DJB	A
1 2-Dibromo-3-[illegible]propane	7.0 U	ug/L		7.0	0.96	SW846 8260B			11/3/10 19:54	DJB	A
[illegible]ibromoethane	1.0 U	ug/L		1.0	0.30	SW846 8260B			11/3/10 19:54	DJB	A
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.15	SW846 8260B			11/3/10 19:54	DJB	A
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			11/3/10 19:54	DJB	A
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.17	SW846 8260B			11/3/10 19:54	DJB	A
cis-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.17	SW846 8260B			11/3/10 19:54	DJB	A
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.20	SW846 8260B			11/3/10 19:54	DJB	A
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/3/10 19:54	DJB	A
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.18	SW846 8260B			11/3/10 19:54	DJB	A
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.14	SW846 8260B			11/3/10 19:54	DJB	A
Ethylbenzene	1.0 U	ug/L		1.0	0.23	SW846 8260B			11/3/10 19:54	DJB	A
2-Hexanone	5.0 U	ug/L		5.0	0.78	SW846 8260B			11/3/10 19:54	DJB	A
Methyl t-Butyl Ether	1.0 U	ug/L		1.0	0.18	SW846 8260B			11/3/10 19:54	DJB	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	ug/L		5.0	0.41	SW846 8260B			11/3/10 19:54	DJB	A
Methylene Chloride	0.82J	ug/L		1.0	0.32	SW846 8260B			11/3/10 19:54	DJB	A
Styrene	1.0 U	ug/L		1.0	0.10	SW846 8260B			11/3/10 19:54	DJB	A
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.22	SW846 8260B			11/3/10 19:54	DJB	A
Tetrachloroethene	1.0 U	ug/L		1.0	0.28	SW846 8260B			11/3/10 19:54	DJB	A
Toluene	1.0 U	ug/L		1.0	0.19	SW846 8260B			11/3/10 19:54	DJB	A
Total Xylenes	3.0 U	ug/L		3.0	0.61	SW846 8260B			11/3/10 19:54	DJB	A
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.29	SW846 8260B			11/3/10 19:54	DJB	A
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.29	SW846 8260B			11/3/10 19:54	DJB	A
Trichloroethene	1.0 U	ug/L		1.0	0.33	SW846 8260B			11/3/10 19:54	DJB	A
Vinyl Chloride	1.0 U	ug/L		1.0	0.16	SW846 8260B			11/3/10 19:54	DJB	A
o-Xylene	1.0 U	ug/L		1.0	0.24	SW846 8260B			11/3/10 19:54	DJB	A
mp-Xylene	2.0 U	ug/L		2.0	0.51	SW846 8260B			11/3/10 19:54	DJB	A

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1 [illegible]hloroethane-d4 (S)	76.1	%		62-133	SW846 8260B			11/3/10 19:54	DJB	A
4-[illegible]ofluorobenzene (S)	109	%		79-114	SW846 8260B			11/3/10 19:54	DJB	A
Dibromofluoromethane (S)	79.7	%		78-116	SW846 8260B			11/3/10 19:54	DJB	A

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ANALYTICAL RESULTS

Workorder 9873407 SFM021|FT HAMILTON-NY PROJECT

Lab ID: **9873407003** Date Collected: 10/28/2010 00:00 Matrix: Water
Sample ID: **FH-102810-TB** Date Received: 10/29/2010 10:15

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene-d8 (S)	94.1	%		76-127		SW846 8260B			11/3/10 19:54	DJB	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder 9873407 SFM021|FT HAMILTON-NY PROJECT

PARAMETER QUALIFIERS\FLAGS

[1] The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 2-Methyl-4,6-dinitrophenol. The % Recovery was reported as 29.4 and the control limits were 58 to 133.

[2] The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 4-Nitrophenol. The % Recovery was reported as 15.2 and the control limits were 19 to 64.

[3] The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte Pentachlorophenol. The % Recovery was reported as 39.7 and the control limits were 60 to 144.

[4] The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 2,4,5-Trichlorophenol. The % Recovery was reported as 63.8 and the control limits were 64 to 118.

[5] The QC sample type LCS for method SW846 8270D was outside the control limits for the analyte 2,4,6-Trichlorophenol. The % Recovery was reported as 46.6 and the control limits were 61 to 114.

Case Narrative

Analytical Laboratory Services Inc.
Analytical Narrative
Shaw E & I
SFM-021

Sample Management

This report contains the results of the analysis of three (3) water samples collected on October 28, 2010. Analytical results and quality control information are summarized in this data package.

Sample Receipt

The samples arrived at ALSI via courier on October 29, 2010. Upon receipt, the samples were inspected and compared to the enclosed chain of custody. The samples were assigned a unique identification number (see the Certificate of Analysis). The sample information was entered into the computer system and the samples were released for analysis.

Volatile Organics by SW-846 Method 8260

Sample Handling. Three (3) water samples were analyzed on MS05 and MS19 by SW-846 Method 8260 volatile organic compounds. All analyses were performed within holding time.

Initial Calibrations. A six-point calibration was analyzed on MS05 on November 4, 2010 and on MS19 on November 1, 2010. The calibrations were used to quantitate the samples, blank and spikes. The initial calibrations met method criteria for all target analytes.

Continuing Calibration Checks. Calibration check standards were properly analyzed each day the samples were analyzed. The continuing calibration check standards met method criteria for all target analytes.

Blanks. Two method blanks, identified 768026 and 768709, were analyzed with the samples in this deliverable group. No target analytes were detected in the method blanks.

Surrogates. A four-component surrogate mix was added to each sample, blank and spike. All surrogate recoveries were within control limits in the samples, blank and spikes, except as follows:

- In LCS 768027, the recovery result for surrogate 4-bromofluorobenzene was above control limits.

Internal Standards. A three-component internal standard mix was added to each sample, blank and spike. All internal standards met method criteria in the samples, blank and spikes.

Spiked Blanks. Two spiked blanks, identified as 768027 and 768710, were analyzed with the samples in this deliverable group. All target analytes were recovered within control limits in the spiked blanks.

Semi-volatile Organic Compounds

Sample Handling. Two (2) water samples were extracted by SW-846 Method 3510 and the extracts were analyzed by SW-846 Method 8270 for semi-volatile organic compounds. The sample, extraction blank and spike were analyzed on MS14. All extractions and analyses were performed within the holding time

Initial Calibrations. An eight-point calibration for SW-846 Method 8270 was analyzed on MS14 on November 2, 2010. The calibration was used for the analyses of the samples, blank and spike. The initial calibration met method criteria for all target analytes.

Calibration Check. Calibration check standards were properly analyzed each day samples were analyzed. The calibration checks met method criteria for all target analytes.

Blank. A method blank, identified as 768367, was extracted and analyzed with the sample. Bis(2-Ethylhexyl)phthalate was detected at 3.7 µg/L. No other target analytes were detected in the method blank.

Surrogates. A six-component surrogate mix was added to each sample, blank and blank spike. All surrogate recoveries were within control limits in the samples, blank and spike.

Internal Standards. A six-component internal standard mix was added to each sample, blank and spike extract. All internal standards met method criteria in the samples, blank and spikes.

Blank Spikes. A blank spike, identified as 768368, was extracted and analyzed with the samples in this deliverable group. All target analytes were recovered within control limits in the blank spike, except as follows

- 2-methyl-4,6-dinitrophenol was recovered below control limits.
- 4-Nitrophenol was recovered below control limits.
- Pentachlorophenol was recovered below control limits.
- 2,4,5-trichlorophenol was recovered below control limits.
- 2,4,6-trichlorophenol was recovered below control limits.

These low phenol recoveries in the LCS were investigated and the cause is believed to be due to the failure to add the phenol supplement at the prep phase of the procedure. The extraction holding time for the two samples in this deliverable group elapsed and so these samples were not re-extracted. The results for these analytes have been qualified on the Certificate of Analysis.

ALSI Corrective Action Report (CAR)

To be Completed by Laboratory and Submitted to Customer Service:

Date: 11/5/10 **CAR Submitted By:** AT
Dept: SVMS EXTR **Supervisor:** AOZ

Reason for Corrective Action:

- ___ Login Error *(2nd reviewed by:_____)*
- ___ Incorrect Preservative
- ___ Missed Holding Time
- ___ Calibration failure
- ___ QC failure due to sample matrix
- ___ QC failure NOT due to sample matrix
- ___ Sample Lost in process
- ___ Reporting Error
- ___ Other_____

Chain of Custody No.(s):
See attached batch (extraction sheet)
Following samples will be qualified
987340700001, 987340700002, 987340600001 (DLB)
(Shaw)

Method: 8270

Determination of Root Cause: (Must explain what, how, and why this issue occurred)
Low phenol recoveries in batch LCS. Compounds affecting samples in the group are 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol and pentachlorophenol
-CAUSE (~~Possible~~): ① Phenol Supplement may not have been added

Signature(s), where Applicable:
Analyst: Cliff Sunday
1st Review: Carl Simmons
2nd Review: Alan Lopez
Result Entered By:_____
Result Approved By:_____
Supervisor:_____

Immediate Corrective Action Taken: By:_____ Date:_____
-Reprep any samples still in holding time (987300001 + 987300003)
- Batch MS+MSD recoveries of the three compounds affecting the TCLP samples were acceptable.
*Most of samples in the batch were TCLP samples. The other samples in the batch were Base/Neutral only so LCS failures did not affect the B/N only sample.

Are there policies/procedures in place to prevent this from occurring? Yes ___ No ___ Not Applicable ___

If Yes, What is the procedure, and why didn't it work? Acceptable recoveries of 2,4,5 + 2,4,6-trichlorophenol and PCP in batch MS/MSD indicates it was an isolated problem.
- Re-extract 9873700001 + 9873700003 (Iversen)

If No, What procedure is needed to prevent this from occurring?
*Target Date for Implementation:*_____ *Person Responsible for Implementation:*_____
- 9873407001, 9873407002, and 9873406002 samples were pair holding the - can not re-extract 2,4,6-TCP, 2,4,5-TCP, PCP, 4-nitrophenol, 2-methyl-4,6-DNP } comment add

Customer Service Rep. Notified: De Brooks **Date:** 11/8/10

To be Completed by Customer Service and submitted to QA:

Date:_____ **Customer Service Rep.:**_____ *Client Contacted?* Yes ___ No ___
Project(s) / Client(s) involved: *Date:*_____ *Person:*_____

Action Taken *(If no immediate action taken with client, explain why):*

Laboratory Notified of Client Response? Yes___ No ___ Not Applicable ___

To be Completed by QA and filed:

Is Root Cause Acceptable? Yes ___ No ___ **Date:**_____
Are Corrective Actions appropriate? Yes ___ No ___ **QA Initials:**_____
Modification of SOP needed? Yes ___ No ___
*If Yes, What is the procedure?*_____ *Has it been instituted?* Yes ___ No ___
Follow-up review comments:

SECTION 3

ANALYTICAL DATA FOR

TREATMENT SYSTEM AIR STREAM SAMPLES

(Samples Required for Regulatory Compliance)

October 2010

References:

Shaw ID#	=	*ALSI ID#*	=	*Columbia Analytical ID#*
FH-100710-NS-SI (T015)		*9869825001*		*
FH-100710-NS-AS (T015)		*9869825003*		*
FH-100710-NS-SE (T015)		*9869825005*		*
FH-100710-NS-SI (T03)		*9869825002*		*P1003808-001*
FH-100710-NS-AS (T03)		*9869865004*		*P1003808-002*
FH-100710-NS-SE (T03)		*9869825006*		*P1003808-003*

ANALYTICAL DATA FOR

TREATMENT SYSTEM AIR STREAM SAMPLES

(Samples Collected for Process Control to Determine Vapor Carbon Breakthrough)

October 2010

November 2010

December 2010

Regulatory Compliance Samples

ANALYTICAL
LABORATORY SERVICES, INC.
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www.analyticallab.com

PROJECT TITLE:
Shaw E&I Inc.
Fort Hamilton - NY

Data Deliverable Group:
SFM-018

CLP-Like
DATA PACKAGE

SAMPLES COLLECTED
October 7, 2010

34 Dogwood Lane ✦ Middletown, PA 17057
TEL: 717-944-5541 ✦ FAX: 717-944-1430 ✦ 1-800-794-7709

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Chain of Custody Records

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Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

AIR ANALYSIS
CHAIN-OF-CUSTODY/REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

* 9 8 6 9 8 2 5 *

of

1. CLIENT INFORMATION

Client Name/Address: SHAW E&I
111 HOWARD BLVD, SUITE 110
MT. ARLINGTON, NJ 07856
Contact: Michelle Lobsiger
Phone#: 973-770-5313
Project Name#: FT Hamilton
Bill To: SHAW
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required: _____ Approved By: _____
Email? [X] -Y michelle.lobsiger@shawgrp.com
Fax? [ ] -Y No.:

2. ANALYSES/METHOD REQUESTED

✓ APPROPRIATE TEST CODE/ANALYTE LIST.

No.	TO-15 Analysis	STD LIST	UST LIST	OTHER	TO-13 Analysis	STD LIST	OTHER	COMMENTS
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

(completed by Receiving Lab)
Cooler Temp: 22°C Therm. ID: 161332724
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?		X	DES
(If present) Seals Intact?			
(TO-13) Received on Ice?			
COC/Labels Complete/Accurate?	X		
Cont. in Good Cond.?	X		
Correct Containers?	X		
Correct Sample Volumes?	X		

UPS 1Z72V9142210025683
Courier/Tracking #:

3. FIELD DATA SHEET

SAMPLE INFORMATION FOR BOTH TO-15 AND TO-13 / TO-15 FIELD DATA / TO-13 FIELD DATA

	Sample Description/Location (as it will appear on the lab report)	Sample Date	Start Time	Stop Time	Temp Deg C	1L	6L	Canister No.	Flow Controller No.	Ending Canister Pressure ("Hg)	PUF No.	Pump No.	Pump Flow Rate	Total Volume
1	FH100710SI TO15	10/7/10	1440	1441	-	-	X	1837	-	0	START VACUUM -30 in hg			
2	FH100710SI TO3	10/7/10	1450	1453		-	-	TEDLAR BAG		-				
3	FH100710AS TO15	10/7/10	1430	1431	-	-	X	1206	-	0	START VACUUM -30 in hg			
4	FH100710AS TO3	10/7/10	1434	1436		-	-	TEDLAR BAG		-				
5	FH100710SE TO15	10/7/10	1400	1401	-	-	X	1836	-	0	START VACUUM -30 in hg			
6	FH100710SE TO3	10/7/10	1405	1408		-	-	TEDLAR BAG		-				
7														
8														
9														
10														

4. SAMPLED BY (Please Print): T. McHugh (SHAW)

LOGGED BY (signature): [signature] 10/8/10 1523
REVIEWED BY (signature): [signature] 10/20/10 1207

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	[signature] Shaw	10/7/10	1600	2	[signature]	10/8/10	1000
3				4			
5				6			
7				8			
9				10			

5. PROJECT INFORMATION

Data Deliverables: [ ] Standard [ ] CLP-like [ ] DOD [ ] Other
EDDs: Format Type:
ALSI Field Services: [ ] Pickup [ ] Labor
[ ] Composite Sampling [ ] Rental Equipment
Other:

State Samples Collected in: [ ] NY [ ] NJ [ ] PA [ ] NC [ ] other

Rev 4/06

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CHAIN OF CUSTO
REQUEST FOR ANALYSIS

Generated by ALSI

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 1 of 1

ALSI Quote #: 11603

Client Name: Analytical Laboratory Services Inc.
Address: 34 Dogwood Lane
Middletown PA 17057
Contact: Denise Brooks
Phone#: (717) 944-5541 x3131
Project Name/#: 9869825
Bill To: ALSI

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required: _____ Approved By: _____
Email? [X] -Y dbrooks@analyticallab.com
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	TO-3 Modified
1. 9869825 002	10/07/10	14:53	C	AIR	1
2. 9869825 004	10/07/10	14:36	C	AIR	1
3. 9869825 006	10/07/10	14:08	C	AIR	1
4					
5					
6					
7					
8					
9					
10					

Container Type: Tedlar
Container Size: 1L
Preservative: NONE

Receipt Information (completed by Receiving Lab)
Cooler Temp: _____ Therm ID: _____
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments
Subcontract to:
Columbia Analytical Services
2655 Park Center Drive
Suite A
Simi Valley CA 93065
(805) 526-7161

ALSI Field Services: Pickup [ ] Labor
Composite Sampling [ ] Rental Equipment
[ ] Other:

Project Comments:

LOGGED BY (signature): Date: Time:
REVIEWED BY (signature): Date: Time:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature] / ALSI	10/11/10	1545	2		
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ]
Special Processing: USACE [ ] Navy [ ] [ ]
State Samples Collected in: [ ] NY [ ] NJ [ ] PA [ ] NC [ ] DE
Reportable to PADEP? Yes [ ]
PWSID # _____
Sample Disposal: Lab [X] Special [ ]
EDDS: Format Type:

*G=Grab; C=Composite **Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

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Rev 8/04

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Report ID: 9869825

ALSI Laboratory Analysis Reports

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Certificate of Analysis

Project Name:	FORT HAMILTON-NY PROJECT	Workorder:	9869825
Purchase Order:	454617	Workorder ID:	SFM018|FT HAMILTON-NY PROJ

Mr. Terence McHugh
Shaw E & I Inc.-Mt Arlington-NJ
111 Howard Blvd., Suite 110
Mount Arlington, NJ 07856

November 8, 2010

Dear Mr. McHugh,

Enclosed are the analytical results for samples received by the laboratory on Friday, October 08, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Denise Brooks (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC Ms. Michelle Lobsiger

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Discard Date: 11/22/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9869825001	FH100710SIT015	Air	10/7/10 14:41	10/8/10 10:00	Terence McHugh
9869825002	FH100710SIT03	Air	10/7/10 14:53	10/8/10 10:00	Terence McHugh
9869825003	FH100710AST015	Air	10/7/10 14:31	10/8/10 10:00	Terence McHugh
9869825004	FH100710AST03	Air	10/7/10 14:36	10/8/10 10:00	Terence McHugh
9869825005	FH100710SET015	Air	10/7/10 14:01	10/8/10 10:00	Terence McHugh
9869825006	FH100710SET03	Air	10/7/10 14:08	10/8/10 10:00	Terence McHugh

Workorder Comments:

See attached results from Columbia Analytical for subcontracted analysis. DLB

This report was modified to correct the decimal place for Cyclohexane on Lab ID 9869825001. JDA 11/5/10

This report was modified to eliminate J-value reporting and to reflect consistant significant figures. SEF 11/8/2010

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Lab ID: 9869825001 Date Collected: 10/7/2010 14:41 Matrix: Air
Sample ID: FH100710SIT015 Date Received: 10/8/2010 10:00

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	4.6	ppbv	1	0.20	0.034	TO-15			10/14/10 21:21	JSS	A
Acrylonitrile	0.25	ppbv		0.20	0.016	TO-15			10/14/10 21:21	JSS	A
tert-Amyl methyl ether	0.20 U	ppbv		0.20	0.012	TO-15			10/14/10 21:21	JSS	A
Benzene	1.0	ppbv		0.20	0.021	TO-15			10/14/10 21:21	JSS	A
Benzyl Chloride	0.20 U	ppbv		0.20	0.015	TO-15			10/14/10 21:21	JSS	A
Bromodichloromethane	0.20 U	ppbv		0.20	0.012	TO-15			10/14/10 21:21	JSS	A
Bromoform	0.20 U	ppbv		0.20	0.010	TO-15			10/14/10 21:21	JSS	A
Bromomethane	0.20 U	ppbv		0.20	0.021	TO-15			10/14/10 21:21	JSS	A
1,3-Butadiene	1.3	ppbv		0.20	0.053	TO-15			10/14/10 21:21	JSS	A
n-Butane	3.4	ppbv		0.20	0.030	TO-15			10/14/10 21:21	JSS	A
2-Butanone	0.77	ppbv		0.20	0.017	TO-15			10/14/10 21:21	JSS	A
tert-Butyl Alcohol	0.21	ppbv		0.20	0.014	TO-15			10/14/10 21:21	JSS	A
Carbon Disulfide	0.20 U	ppbv		0.20	0.013	TO-15			10/14/10 21:21	JSS	A
C Tetrachloride	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 21:21	JSS	A
Chlorobenzene	0.20 U	ppbv		0.20	0.016	TO-15			10/14/10 21:21	JSS	A
Chlorodibromomethane	0.20 U	ppbv		0.20	0.0080	TO-15			10/14/10 21:21	JSS	A
Chloroethane	0.20 U	ppbv		0.20	0.018	TO-15			10/14/10 21:21	JSS	A
Chloroform	0.20 U	ppbv		0.20	0.0080	TO-15			10/14/10 21:21	JSS	A
Chloromethane	1.1	ppbv		0.20	0.018	TO-15			10/14/10 21:21	JSS	A
3-Chloro-1-propene	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 21:21	JSS	A
o-Chlorotoluene	0.20 U	ppbv		0.20	0.017	TO-15			10/14/10 21:21	JSS	A
Cyclohexane	0.45	ppbv		0.20	0.011	TO-15			10/14/10 21:21	JSS	A
1,2-Dibromoethane	0.20 U	ppbv		0.20	0.010	TO-15			10/14/10 21:21	JSS	A
1,2-Dichlorobenzene	0.20 U	ppbv		0.20	0.0090	TO-15			10/14/10 21:21	JSS	A
1,3-Dichlorobenzene	0.20 U	ppbv		0.20	0.015	TO-15			10/14/10 21:21	JSS	A
1,4-Dichlorobenzene	0.20 U	ppbv		0.20	0.013	TO-15			10/14/10 21:21	JSS	A
Dichlorodifluoromethane	0.60	ppbv		0.20	0.011	TO-15			10/14/10 21:21	JSS	A
1,1-Dichloroethane	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 21:21	JSS	A
1,2-Dichloroethane	0.20 U	ppbv		0.20	0.016	TO-15			10/14/10 21:21	JSS	A
1,1-Dichloroethene	0.20 U	ppbv		0.20	0.017	TO-15			10/14/10 21:21	JSS	A
cis-1,2-Dichloroethene	0.20 U	ppbv		0.20	0.036	TO-15			10/14/10 21:21	JSS	A
trans-1,2-Dichloroethene	0.20 U	ppbv		0.20	0.010	TO-15			10/14/10 21:21	JSS	A
1,2-Dichloropropane	0.20 U	ppbv		0.20	0.016	TO-15			10/14/10 21:21	JSS	A
cis-1,3-Dichloropropene	0.20 U	ppbv		0.20	0.013	TO-15			10/14/10 21:21	JSS	A
trans-1,3-Dichloropropene	0.20 U	ppbv		0.20	0.013	TO-15			10/14/10 21:21	JSS	A
1,3-Dichloropropene, Total	0.40 U	ppbv		0.40	0.10	TO-15			10/14/10 21:21	JSS	A
Diisopropyl ether	0.69	ppbv		0.20	0.14	TO-15			10/14/10 21:21	JSS	A
1,4-Dioxane	0.20 U	ppbv		0.20	0.021	TO-15			10/14/10 21:21	JSS	A
Ethanol	7.1	ppbv	2	0.20	0.083	TO-15			10/14/10 21:21	JSS	A
Ethyl Acetate	0.67	ppbv		0.20	0.14	TO-15			10/14/10 21:21	JSS	A
Ethyl tert-butyl ether	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 21:21	JSS	A
Et[illegible]nzene	0.45	ppbv		0.20	0.0090	TO-15			10/14/10 21:21	JSS	A
4-[illegible]oluene	0.24	ppbv		0.20	0.012	TO-15			10/14/10 21:21	JSS	A
Freon 113	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 21:21	JSS	A
Freon-114	0.20 U	ppbv		0.20	0.019	TO-15			10/14/10 21:21	JSS	A
Heptane	0.57	ppbv		0.20	0.021	TO-15			10/14/10 21:21	JSS	A

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ANALYTICAL RESULTS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Lab ID: 9869825001 Date Collected: 10/7/2010 14:41 Matrix: Air

Sample ID: FH100710SIT015 Date Received: 10/8/2010 10:00

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobutadiene	0.20 U	ppbv		0.20	0.019	TO-15			10/14/10 21:21	JSS	A
Hexane	1.5	ppbv		0.20	0.014	TO-15			10/14/10 21:21	JSS	A
2-Hexanone	0.20 U	ppbv		0.20	0.012	TO-15			10/14/10 21:21	JSS	A
Isopropyl Alcohol	0.62	ppbv	3	0.20	0.018	TO-15			10/14/10 21:21	JSS	A
Isopropylbenzene	0.20 U	ppbv		0.20	0.012	TO-15			10/14/10 21:21	JSS	A
p-Isopropyltoluene	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 21:21	JSS	A
Methyl methacrylate	0.20 U	ppbv		0.20	0.015	TO-15			10/14/10 21:21	JSS	A
Methyl t-Butyl Ether	0.20 U	ppbv		0.20	0.012	TO-15			10/14/10 21:21	JSS	A
4-Methyl-2-Pentanone(MIBK)	0.20 U	ppbv		0.20	0.018	TO-15			10/14/10 21:21	JSS	A
Methylene Chloride	0.89	ppbv		0.20	0.013	TO-15			10/14/10 21:21	JSS	A
Naphthalene	0.20 U	ppbv		0.20	0.027	TO-15			10/14/10 21:21	JSS	A
iso-Octane	1.5	ppbv		0.20	0.011	TO-15			10/14/10 21:21	JSS	A
n-Propylbenzene	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 21:21	JSS	A
Propylene	3.4	ppbv		0.20	0.019	TO-15			10/14/10 21:21	JSS	A
S[illegible]	0.20 U	ppbv		0.20	0.015	TO-15			10/14/10 21:21	JSS	A
1,1,2,2-Tetrachloroethane	0.20 U	ppbv		0.20	0.015	TO-15			10/14/10 21:21	JSS	A
Tetrachloroethene	0.20 U	ppbv		0.20	0.011	TO-15			10/14/10 21:21	JSS	A
Tetrahydrofuran	0.41	ppbv		0.20	0.011	TO-15			10/14/10 21:21	JSS	A
Toluene	2.2	ppbv		0.20	0.0090	TO-15			10/14/10 21:21	JSS	A
Total Xylenes	2.0	ppbv		0.60	0.10	TO-15			10/14/10 21:21	JSS	A
1,2,4-Trichlorobenzene	0.20 U	ppbv		0.20	0.019	TO-15			10/14/10 21:21	JSS	A
1,1,1-Trichloroethane	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 21:21	JSS	A
1,1,2-Trichloroethane	0.20 U	ppbv		0.20	0.016	TO-15			10/14/10 21:21	JSS	A
Trichloroethene	0.20 U	ppbv		0.20	0.011	TO-15			10/14/10 21:21	JSS	A
Trichlorofluoromethane	0.32	ppbv		0.20	0.013	TO-15			10/14/10 21:21	JSS	A
1,2,3-Trichloropropane	0.20 U	ppbv		0.20	0.017	TO-15			10/14/10 21:21	JSS	A
1,2,4-Trimethylbenzene	0.58	ppbv		0.20	0.013	TO-15			10/14/10 21:21	JSS	A
1,3,5-Trimethylbenzene	0.32	ppbv		0.20	0.014	TO-15			10/14/10 21:21	JSS	A
1,2,3-Trimethylbenzene	0.25	ppbv		0.20	0.010	TO-15			10/14/10 21:21	JSS	A
Vinyl Acetate	1.9	ppbv		0.20	0.016	TO-15			10/14/10 21:21	JSS	A
Vinyl Bromide	0.20 U	ppbv		0.20	0.016	TO-15			10/14/10 21:21	JSS	A
Vinyl Chloride	0.20 U	ppbv		0.20	0.016	TO-15			10/14/10 21:21	JSS	A
o-Xylene	0.63	ppbv		0.20	0.012	TO-15			10/14/10 21:21	JSS	A
mp-Xylene	1.4	ppbv		0.40	0.022	TO-15			10/14/10 21:21	JSS	A
Acetone	11	ug/m3		0.5	0.08	TO-15			10/14/10 21:21	JSS	A
Acrylonitrile	0.5	ug/m3		0.4	0.04	TO-15			10/14/10 21:21	JSS	A
tert-Amyl methyl ether	0.8 U	ug/m3		0.8	0.05	TO-15			10/14/10 21:21	JSS	A
Benzene	3	ug/m3		0.6	0.07	TO-15			10/14/10 21:21	JSS	A
Benzyl Chloride	1 U	ug/m3		1	0.08	TO-15			10/14/10 21:21	JSS	A
Bromodichloromethane	1 U	ug/m3		1	0.08	TO-15			10/14/10 21:21	JSS	A
Bromoform	2 U	ug/m3		2	0.1	TO-15			10/14/10 21:21	JSS	A
Bromomethane	0.8 U	ug/m3		0.8	0.08	TO-15			10/14/10 21:21	JSS	A
1[illegible]diene	3	ug/m3		0.4	0.1	TO-15			10/14/10 21:21	JSS	A
n-B[illegible]e	8	ug/m3		0.5	0.07	TO-15			10/14/10 21:21	JSS	A
2-Butanone	2	ug/m3		0.6	0.05	TO-15			10/14/10 21:21	JSS	A
tert-Butyl Alcohol	0.6	ug/m3		0.6	0.04	TO-15			10/14/10 21:21	JSS	A

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ANALYTICAL RESULTS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Lab ID: 9869825001 Date Collected: 10/7/2010 14:41 Matrix: Air

Sample ID: FH100710SIT015 Date Received: 10/8/2010 10:00

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Carbon Disulfide	0.6 U	ug/m3		0.6	0.04	TO-15			10/14/10 21:21	JSS	A
Carbon Tetrachloride	1 U	ug/m3		1	0.09	TO-15			10/14/10 21:21	JSS	A
Chlorobenzene	0.9 U	ug/m3		0.9	0.07	TO-15			10/14/10 21:21	JSS	A
Chlorodibromomethane	2 U	ug/m3		2	0.07	TO-15			10/14/10 21:21	JSS	A
Chloroethane	0.5 U	ug/m3		0.5	0.05	TO-15			10/14/10 21:21	JSS	A
Chloroform	1 U	ug/m3		1	0.04	TO-15			10/14/10 21:21	JSS	A
Chloromethane	2	ug/m3		0.4	0.04	TO-15			10/14/10 21:21	JSS	A
3-Chloro-1-propene	0.6 U	ug/m3		0.6	0.04	TO-15			10/14/10 21:21	JSS	A
o-Chlorotoluene	1 U	ug/m3		1	0.09	TO-15			10/14/10 21:21	JSS	A
Cyclohexane	2	ug/m3		0.7	0.04	TO-15			10/14/10 21:21	JSS	A
1,2-Dibromoethane	2 U	ug/m3		2	0.08	TO-15			10/14/10 21:21	JSS	A
1,2-Dichlorobenzene	1 U	ug/m3		1	0.05	TO-15			10/14/10 21:21	JSS	A
1,3-Dichlorobenzene	1 U	ug/m3		1	0.09	TO-15			10/14/10 21:21	JSS	A
1,4-Dichlorobenzene	1 U	ug/m3		1	0.08	TO-15			10/14/10 21:21	JSS	A
D[illegible]odifluoromethane	3	ug/m3		1	0.05	TO-15			10/14/10 21:21	JSS	A
1,[illegible]hloroethane	0.8 U	ug/m3		0.8	0.06	TO-15			10/14/10 21:21	JSS	A
1,2-Dichloroethane	0.8 U	ug/m3		0.8	0.06	TO-15			10/14/10 21:21	JSS	A
1,1-Dichloroethene	0.8 U	ug/m3		0.8	0.07	TO-15			10/14/10 21:21	JSS	A
cis-1,2-Dichloroethene	0.8 U	ug/m3		0.8	0.1	TO-15			10/14/10 21:21	JSS	A
trans-1,2-Dichloroethene	0.8 U	ug/m3		0.8	0.04	TO-15			10/14/10 21:21	JSS	A
1,2-Dichloropropane	0.9 U	ug/m3		0.9	0.07	TO-15			10/14/10 21:21	JSS	A
cis-1,3-Dichloropropene	0.9 U	ug/m3		0.9	0.06	TO-15			10/14/10 21:21	JSS	A
trans-1,3-Dichloropropene	0.9 U	ug/m3		0.9	0.06	TO-15			10/14/10 21:21	JSS	A
1,3-Dichloropropene, Total	2 U	ug/m3		2	0.1	TO-15			10/14/10 21:21	JSS	A
Diisopropyl ether	3	ug/m3		0.8	0.6	TO-15			10/14/10 21:21	JSS	A
1,4-Dioxane	0.7 U	ug/m3		0.7	0.08	TO-15			10/14/10 21:21	JSS	A
Ethanol	13	ug/m3		0.4	0.2	TO-15			10/14/10 21:21	JSS	A
Ethyl Acetate	2	ug/m3		0.8	0.5	TO-15			10/14/10 21:21	JSS	A
Ethyl tert-butyl ether	0.8 U	ug/m3		0.8	0.06	TO-15			10/14/10 21:21	JSS	A
Ethylbenzene	2	ug/m3		0.9	0.04	TO-15			10/14/10 21:21	JSS	A
4-Ethyltoluene	1	ug/m3		1	0.06	TO-15			10/14/10 21:21	JSS	A
Freon 113	2 U	ug/m3		2	0.1	TO-15			10/14/10 21:21	JSS	A
Freon-114	1 U	ug/m3		1	0.1	TO-15			10/14/10 21:21	JSS	A
Heptane	2	ug/m3		0.8	0.09	TO-15			10/14/10 21:21	JSS	A
Hexachlorobutadiene	2 U	ug/m3		2	0.2	TO-15			10/14/10 21:21	JSS	A
Hexane	5	ug/m3		0.7	0.05	TO-15			10/14/10 21:21	JSS	A
2-Hexanone	0.8 U	ug/m3		0.8	0.05	TO-15			10/14/10 21:21	JSS	A
Isopropyl Alcohol	2	ug/m3		0.5	0.04	TO-15			10/14/10 21:21	JSS	A
Isopropylbenzene	1 U	ug/m3		1	0.06	TO-15			10/14/10 21:21	JSS	A
p-Isopropyltoluene	1 U	ug/m3		1	0.08	TO-15			10/14/10 21:21	JSS	A
Methyl Methacrylate	0.8 U	ug/m3		0.8	0.06	TO-15			10/14/10 21:21	JSS	A
Methyl t-Butyl Ether	0.7 U	ug/m3		0.7	0.04	TO-15			10/14/10 21:21	JSS	A
4-M[illegible]l-2-P[illegible]ne(MIBK)	0.8 U	ug/m3		0.8	0.07	TO-15			10/14/10 21:21	JSS	A
Methylene Chloride	3	ug/m3		0.7	0.04	TO-15			10/14/10 21:21	JSS	A
Naphthalene	1 U	ug/m3		1	0.1	TO-15			10/14/10 21:21	JSS	A
iso-Octane	7	ug/m3		0.9	0.05	TO-15			10/14/10 21:21	JSS	A

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ANALYTICAL RESULTS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Lab ID: 9869825001
Sample ID: FH100710SIT015

Date Collected: 10/7/2010 14:41
Date Received: 10/8/2010 10:00

Matrix: Air

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
n-Propylbenzene	1 U	ug/m3		1	0.07	TO-15			10/14/10 21:21	JSS	A
Propylene	6	ug/m3		0.3	0.03	TO-15			10/14/10 21:21	JSS	A
Styrene	0.8 U	ug/m3		0.8	0.06	TO-15			10/14/10 21:21	JSS	A
1,1,2,2-Tetrachloroethane	1 U	ug/m3		1	0.07	TO-15			10/14/10 21:21	JSS	A
Tetrachloroethene	1 U	ug/m3		1	0.08	TO-15			10/14/10 21:21	JSS	A
Tetrahydrofuran	1	ug/m3		0.6	0.03	TO-15			10/14/10 21:21	JSS	A
Toluene	8	ug/m3		0.8	0.03	TO-15			10/14/10 21:21	JSS	A
Total Xylenes	9	ug/m3		3	0.1	TO-15			10/14/10 21:21	JSS	A
1,2,4-Trichlorobenzene	1 U	ug/m3		1	0.1	TO-15			10/14/10 21:21	JSS	A
1,1,1-Trichloroethane	1 U	ug/m3		1	0.08	TO-15			10/14/10 21:21	JSS	A
1,1,2-Trichloroethane	1 U	ug/m3		1	0.09	TO-15			10/14/10 21:21	JSS	A
Trichloroethene	1 U	ug/m3		1	0.06	TO-15			10/14/10 21:21	JSS	A
Trichlorofluoromethane	2	ug/m3		1	0.07	TO-15			10/14/10 21:21	JSS	A
1,2,3-Trichloropropane	1 U	ug/m3		1	0.1	TO-15			10/14/10 21:21	JSS	A
1,[illegible]-Trimethylbenzene	3	ug/m3		1	0.06	TO-15			10/14/10 21:21	JSS	A
1[illegible]-Trimethylbenzene	2	ug/m3		1	0.07	TO-15			10/14/10 21:21	JSS	A
1,2,3-Trimethylbenzene	1	ug/m3		1	0.05	TO-15			10/14/10 21:21	JSS	A
Vinyl Acetate	7	ug/m3		0.7	0.06	TO-15			10/14/10 21:21	JSS	A
Vinyl Bromide	0.9 U	ug/m3		0.9	0.07	TO-15			10/14/10 21:21	JSS	A
Vinyl Chloride	0.5 U	ug/m3		0.5	0.04	TO-15			10/14/10 21:21	JSS	A
o-Xylene	3	ug/m3		0.9	0.05	TO-15			10/14/10 21:21	JSS	A
mp-Xylenes	6	ug/m3		2	0.1	TO-15			10/14/10 21:21	JSS	A

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	101	%		70-130	TO-15			10/14/10 21:21	JSS	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Lab ID: 9869825002
Sample ID: FH100710SIT03

Date Collected: 10/7/2010 14:53
Date Received: 10/8/2010 10:00

Matrix: Air

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
SUBCONTRACTED ANALYSIS											
Subcontracted Analysis	See attached					Subcontract			10/14/10 00:00	CLT	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Lab ID: 9869825003 Date Collected: 10/7/2010 14:31 Matrix: Air
Sample ID: FH100710AST015 Date Received: 10/8/2010 10:00

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	3.3	ppbv	1	0.20	0.034	TO-15			10/14/10 22:05	JSS	A
Acrylonitrile	0.20 U	ppbv		0.20	0.016	TO-15			10/14/10 22:05	JSS	A
tert-Amyl methyl ether	0.20 U	ppbv		0.20	0.012	TO-15			10/14/10 22:05	JSS	A
Benzene	0.30	ppbv		0.20	0.021	TO-15			10/14/10 22:05	JSS	A
Benzyl Chloride	0.20 U	ppbv		0.20	0.015	TO-15			10/14/10 22:05	JSS	A
Bromodichloromethane	0.20 U	ppbv		0.20	0.012	TO-15			10/14/10 22:05	JSS	A
Bromoform	0.20 U	ppbv		0.20	0.010	TO-15			10/14/10 22:05	JSS	A
Bromomethane	0.20 U	ppbv		0.20	0.021	TO-15			10/14/10 22:05	JSS	A
1,3-Butadiene	0.31	ppbv		0.20	0.053	TO-15			10/14/10 22:05	JSS	A
n-Butane	1.2	ppbv		0.20	0.030	TO-15			10/14/10 22:05	JSS	A
2-Butanone	0.46	ppbv		0.20	0.017	TO-15			10/14/10 22:05	JSS	A
tert-Butyl Alcohol	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 22:05	JSS	A
Carbon Disulfide	0.20 U	ppbv		0.20	0.013	TO-15			10/14/10 22:05	JSS	A
C[illegible] Tetrachloride	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 22:05	JSS	A
C[illegible]benzene	0.20 U	ppbv		0.20	0.016	TO-15			10/14/10 22:05	JSS	A
Chlorodibromomethane	0.20 U	ppbv		0.20	0.0080	TO-15			10/14/10 22:05	JSS	A
Chloroethane	0.20 U	ppbv		0.20	0.018	TO-15			10/14/10 22:05	JSS	A
Chloroform	0.20 U	ppbv		0.20	0.0080	TO-15			10/14/10 22:05	JSS	A
Chloromethane	0.69	ppbv		0.20	0.018	TO-15			10/14/10 22:05	JSS	A
3-Chloro-1-propene	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 22:05	JSS	A
o-Chlorotoluene	0.20 U	ppbv		0.20	0.017	TO-15			10/14/10 22:05	JSS	A
Cyclohexane	0.20 U	ppbv		0.20	0.011	TO-15			10/14/10 22:05	JSS	A
1,2-Dibromoethane	0.20 U	ppbv		0.20	0.010	TO-15			10/14/10 22:05	JSS	A
1,2-Dichlorobenzene	0.20 U	ppbv		0.20	0.0090	TO-15			10/14/10 22:05	JSS	A
1,3-Dichlorobenzene	0.20 U	ppbv		0.20	0.015	TO-15			10/14/10 22:05	JSS	A
1,4-Dichlorobenzene	0.20 U	ppbv		0.20	0.013	TO-15			10/14/10 22:05	JSS	A
Dichlorodifluoromethane	0.61	ppbv		0.20	0.011	TO-15			10/14/10 22:05	JSS	A
1,1-Dichloroethane	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 22:05	JSS	A
1,2-Dichloroethane	0.20 U	ppbv		0.20	0.016	TO-15			10/14/10 22:05	JSS	A
1,1-Dichloroethene	0.20 U	ppbv		0.20	0.017	TO-15			10/14/10 22:05	JSS	A
cis-1,2-Dichloroethene	0.20 U	ppbv		0.20	0.036	TO-15			10/14/10 22:05	JSS	A
trans-1,2-Dichloroethene	0.20 U	ppbv		0.20	0.010	TO-15			10/14/10 22:05	JSS	A
1,2-Dichloropropane	0.20 U	ppbv		0.20	0.016	TO-15			10/14/10 22:05	JSS	A
cis-1,3-Dichloropropene	0.20 U	ppbv		0.20	0.013	TO-15			10/14/10 22:05	JSS	A
trans-1,3-Dichloropropene	0.20 U	ppbv		0.20	0.013	TO-15			10/14/10 22:05	JSS	A
1,3-Dichloropropene, Total	0.40 U	ppbv		0.40	0.10	TO-15			10/14/10 22:05	JSS	A
Diisopropyl ether	0.28	ppbv		0.20	0.14	TO-15			10/14/10 22:05	JSS	A
1,4-Dioxane	0.20 U	ppbv		0.20	0.021	TO-15			10/14/10 22:05	JSS	A
Ethanol	8.9	ppbv	2	0.20	0.083	TO-15			10/14/10 22:05	JSS	A
Ethyl Acetate	0.35	ppbv		0.20	0.14	TO-15			10/14/10 22:05	JSS	A
Ethyl tert-butyl ether	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 22:05	JSS	A
Et[illegible]nzene	0.20 U	ppbv		0.20	0.0090	TO-15			10/14/10 22:05	JSS	A
4-[illegible]oluene	0.20 U	ppbv		0.20	0.012	TO-15			10/14/10 22:05	JSS	A
Freon 113	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 22:05	JSS	A
Freon-114	0.20 U	ppbv		0.20	0.019	TO-15			10/14/10 22:05	JSS	A
Heptane	0.20	ppbv		0.20	0.021	TO-15			10/14/10 22:05	JSS	A

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ANALYTICAL RESULTS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Lab ID: **9869825003** Date Collected: 10/7/2010 14:31 Matrix: Air

Sample ID: **FH100710AST015** Date Received: 10/8/2010 10:00

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobutadiene	0.20 U	ppbv		0.20	0.019	TO-15			10/14/10 22:05	JSS	A
Hexane	0.40	ppbv		0.20	0.014	TO-15			10/14/10 22:05	JSS	A
2-Hexanone	0.20 U	ppbv		0.20	0.012	TO-15			10/14/10 22:05	JSS	A
Isopropyl Alcohol	0.49	ppbv	3	0.20	0.018	TO-15			10/14/10 22:05	JSS	A
Isopropylbenzene	0.20 U	ppbv		0.20	0.012	TO-15			10/14/10 22:05	JSS	A
p-Isopropyltoluene	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 22:05	JSS	A
Methyl methacrylate	0.20 U	ppbv		0.20	0.015	TO-15			10/14/10 22:05	JSS	A
Methyl t-Butyl Ether	0.20 U	ppbv		0.20	0.012	TO-15			10/14/10 22:05	JSS	A
4-Methyl-2-Pentanone(MIBK)	0.20 U	ppbv		0.20	0.018	TO-15			10/14/10 22:05	JSS	A
Methylene Chloride	0.44	ppbv		0.20	0.013	TO-15			10/14/10 22:05	JSS	A
Naphthalene	0.20 U	ppbv		0.20	0.027	TO-15			10/14/10 22:05	JSS	A
iso-Octane	0.24	ppbv		0.20	0.011	TO-15			10/14/10 22:05	JSS	A
n-Propylbenzene	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 22:05	JSS	A
P[illegible]ene	1.0	ppbv		0.20	0.019	TO-15			10/14/10 22:05	JSS	A
S[illegible]e	0.20 U	ppbv		0.20	0.015	TO-15			10/14/10 22:05	JSS	A
1,1,2,2-Tetrachloroethane	0.20 U	ppbv		0.20	0.015	TO-15			10/14/10 22:05	JSS	A
Tetrachloroethene	0.20 U	ppbv		0.20	0.011	TO-15			10/14/10 22:05	JSS	A
Tetrahydrofuran	0.25	ppbv		0.20	0.011	TO-15			10/14/10 22:05	JSS	A
Toluene	0.56	ppbv		0.20	0.0090	TO-15			10/14/10 22:05	JSS	A
Total Xylenes	0.66	ppbv		0.60	0.10	TO-15			10/14/10 22:05	JSS	A
1,2,4-Trichlorobenzene	0.20 U	ppbv		0.20	0.019	TO-15			10/14/10 22:05	JSS	A
1,1,1-Trichloroethane	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 22:05	JSS	A
1,1,2-Trichloroethane	0.20 U	ppbv		0.20	0.016	TO-15			10/14/10 22:05	JSS	A
Trichloroethene	0.20 U	ppbv		0.20	0.011	TO-15			10/14/10 22:05	JSS	A
Trichlorofluoromethane	0.33	ppbv		0.20	0.013	TO-15			10/14/10 22:05	JSS	A
1,2,3-Trichloropropane	0.20 U	ppbv		0.20	0.017	TO-15			10/14/10 22:05	JSS	A
1,2,4-Trimethylbenzene	0.22	ppbv		0.20	0.013	TO-15			10/14/10 22:05	JSS	A
1,3,5-Trimethylbenzene	0.20 U	ppbv		0.20	0.014	TO-15			10/14/10 22:05	JSS	A
1,2,3-Trimethylbenzene	0.20 U	ppbv		0.20	0.010	TO-15			10/14/10 22:05	JSS	A
Vinyl Acetate	0.45	ppbv		0.20	0.016	TO-15			10/14/10 22:05	JSS	A
Vinyl Bromide	0.20 U	ppbv		0.20	0.016	TO-15			10/14/10 22:05	JSS	A
Vinyl Chloride	0.20 U	ppbv		0.20	0.016	TO-15			10/14/10 22:05	JSS	A
o-Xylene	0.21	ppbv		0.20	0.012	TO-15			10/14/10 22:05	JSS	A
m,p-Xylene	0.45	ppbv		0.40	0.022	TO-15			10/14/10 22:05	JSS	A
Acetone	8	ug/m3		0.5	0.08	TO-15			10/14/10 22:05	JSS	A
Acrylonitrile	0.4 U	ug/m3		0.4	0.04	TO-15			10/14/10 22:05	JSS	A
tert-Amyl methyl ether	0.8 U	ug/m3		0.8	0.05	TO-15			10/14/10 22:05	JSS	A
Benzene	1	ug/m3		0.6	0.07	TO-15			10/14/10 22:05	JSS	A
Benzyl Chloride	1 U	ug/m3		1	0.08	TO-15			10/14/10 22:05	JSS	A
Bromodichloromethane	1 U	ug/m3		1	0.08	TO-15			10/14/10 22:05	JSS	A
Bromoform	2 U	ug/m3		2	0.1	TO-15			10/14/10 22:05	JSS	A
Br[illegible]methane	0.8 U	ug/m3		0.8	0.08	TO-15			10/14/10 22:05	JSS	A
1[illegible]adiene	0.7	ug/m3		0.4	0.1	TO-15			10/14/10 22:05	JSS	A
n-Butane	3	ug/m3		0.5	0.07	TO-15			10/14/10 22:05	JSS	A
2-Butanone	1	ug/m3		0.6	0.05	TO-15			10/14/10 22:05	JSS	A
tert-Butyl Alcohol	0.6 U	ug/m3		0.6	0.04	TO-15			10/14/10 22:05	JSS	A

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ANALYTICAL RESULTS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Lab ID: 9869825003 Date Collected: 10/7/2010 14:31 Matrix: Air
Sample ID: FH100710AST015 Date Received: 10/8/2010 10:00

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr.
Carbon Disulfide	0.6 U	ug/m3		0.6	0.04	TO-15			10/14/10 22:05	JSS	A
Carbon Tetrachloride	1 U	ug/m3		1	0.09	TO-15			10/14/10 22:05	JSS	A
Chlorobenzene	0.9 U	ug/m3		0.9	0.07	TO-15			10/14/10 22:05	JSS	A
Chlorodibromomethane	2 U	ug/m3		2	0.07	TO-15			10/14/10 22:05	JSS	A
Chloroethane	0.5 U	ug/m3		0.5	0.05	TO-15			10/14/10 22:05	JSS	A
Chloroform	1 U	ug/m3		1	0.04	TO-15			10/14/10 22:05	JSS	A
Chloromethane	1	ug/m3		0.4	0.04	TO-15			10/14/10 22:05	JSS	A
3-Chloro-1-propene	0.6 U	ug/m3		0.6	0.04	TO-15			10/14/10 22:05	JSS	A
o-Chlorotoluene	1 U	ug/m3		1	0.09	TO-15			10/14/10 22:05	JSS	A
Cyclohexane	0.7 U	ug/m3		0.7	0.04	TO-15			10/14/10 22:05	JSS	A
1,2-Dibromoethane	2 U	ug/m3		2	0.08	TO-15			10/14/10 22:05	JSS	A
1,2-Dichlorobenzene	1 U	ug/m3		1	0.05	TO-15			10/14/10 22:05	JSS	A
1,3-Dichlorobenzene	1 U	ug/m3		1	0.09	TO-15			10/14/10 22:05	JSS	A
1,4-Dichlorobenzene	1 U	ug/m3		1	0.08	TO-15			10/14/10 22:05	JSS	A
D[illegible]rodifluoromethane	3	ug/m3		1	0.05	TO-15			10/14/10 22:05	JSS	A
1,[illegible]chloroethane	0.8 U	ug/m3		0.8	0.06	TO-15			10/14/10 22:05	JSS	A
1,2-Dichloroethane	0.8 U	ug/m3		0.8	0.06	TO-15			10/14/10 22:05	JSS	A
1,1-Dichloroethene	0.8 U	ug/m3		0.8	0.07	TO-15			10/14/10 22:05	JSS	A
cis-1,2-Dichloroethene	0.8 U	ug/m3		0.8	0.1	TO-15			10/14/10 22:05	JSS	A
trans-1,2-Dichloroethene	0.8 U	ug/m3		0.8	0.04	TO-15			10/14/10 22:05	JSS	A
1,2-Dichloropropane	0.9 U	ug/m3		0.9	0.07	TO-15			10/14/10 22:05	JSS	A
cis-1,3-Dichloropropene	0.9 U	ug/m3		0.9	0.06	TO-15			10/14/10 22:05	JSS	A
trans-1,3-Dichloropropene	0.9 U	ug/m3		0.9	0.06	TO-15			10/14/10 22:05	JSS	A
1,3-Dichloropropene, Total	2 U	ug/m3		2	0.1	TO-15			10/14/10 22:05	JSS	A
Diisopropyl ether	1	ug/m3		0.8	0.6	TO-15			10/14/10 22:05	JSS	A
1,4-Dioxane	0.7 U	ug/m3		0.7	0.08	TO-15			10/14/10 22:05	JSS	A
Ethanol	17	ug/m3		0.4	0.2	TO-15			10/14/10 22:05	JSS	A
Ethyl Acetate	1	ug/m3		0.8	0.5	TO-15			10/14/10 22:05	JSS	A
Ethyl tert-butyl ether	0.8 U	ug/m3		0.8	0.06	TO-15			10/14/10 22:05	JSS	A
Ethylbenzene	0.9 U	ug/m3		0.9	0.04	TO-15			10/14/10 22:05	JSS	A
4-Ethyltoluene	1 U	ug/m3		1	0.06	TO-15			10/14/10 22:05	JSS	A
Freon 113	2 U	ug/m3		2	0.1	TO-15			10/14/10 22:05	JSS	A
Freon-114	1 U	ug/m3		1	0.1	TO-15			10/14/10 22:05	JSS	A
Heptane	0.8	ug/m3		0.8	0.09	TO-15			10/14/10 22:05	JSS	A
Hexachlorobutadiene	2 U	ug/m3		2	0.2	TO-15			10/14/10 22:05	JSS	A
Hexane	1	ug/m3		0.7	0.05	TO-15			10/14/10 22:05	JSS	A
2-Hexanone	0.8 U	ug/m3		0.8	0.05	TO-15			10/14/10 22:05	JSS	A
Isopropyl Alcohol	1	ug/m3		0.5	0.04	TO-15			10/14/10 22:05	JSS	A
Isopropylbenzene	1 U	ug/m3		1	0.06	TO-15			10/14/10 22:05	JSS	A
p-Isopropyltoluene	1 U	ug/m3		1	0.08	TO-15			10/14/10 22:05	JSS	A
Methyl Methacrylate	0.8 U	ug/m3		0.8	0.06	TO-15			10/14/10 22:05	JSS	A
Methyl t-Butyl Ether	0.7 U	ug/m3		0.7	0.04	TO-15			10/14/10 22:05	JSS	A
4-M[illegible]thyl-2-P[illegible]one(MIBK)	0.8 U	ug/m3		0.8	0.07	TO-15			10/14/10 22:05	JSS	A
Me[illegible]ene Chloride	2	ug/m3		0.7	0.04	TO-15			10/14/10 22:05	JSS	A
Naphthalene	1 U	ug/m3		1	0.1	TO-15			10/14/10 22:05	JSS	A
iso-Octane	1	ug/m3		0.9	0.05	TO-15			10/14/10 22:05	JSS	A

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ANALYTICAL RESULTS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Lab ID: **9869825003** Date Collected: 10/7/2010 14:31 Matrix: Air

Sample ID: **FH100710AST015** Date Received: 10/8/2010 10:00

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
n-Propylbenzene	1 U	ug/m3		1	0.07	TO-15			10/14/10 22:05	JSS	A
Propylene	2	ug/m3		0.3	0.03	TO-15			10/14/10 22:05	JSS	A
Styrene	0.8 U	ug/m3		0.8	0.06	TO-15			10/14/10 22:05	JSS	A
1,1,2,2-Tetrachloroethane	1 U	ug/m3		1	0.07	TO-15			10/14/10 22:05	JSS	A
Tetrachloroethene	1 U	ug/m3		1	0.08	TO-15			10/14/10 22:05	JSS	A
Tetrahydrofuran	0.7	ug/m3		0.6	0.03	TO-15			10/14/10 22:05	JSS	A
Toluene	2	ug/m3		0.8	0.03	TO-15			10/14/10 22:05	JSS	A
Total Xylenes	3	ug/m3		3	0.1	TO-15			10/14/10 22:05	JSS	A
1,2,4-Trichlorobenzene	1 U	ug/m3		1	0.1	TO-15			10/14/10 22:05	JSS	A
1,1,1-Trichloroethane	1 U	ug/m3		1	0.08	TO-15			10/14/10 22:05	JSS	A
1,1,2-Trichloroethane	1 U	ug/m3		1	0.09	TO-15			10/14/10 22:05	JSS	A
Trichloroethene	1 U	ug/m3		1	0.06	TO-15			10/14/10 22:05	JSS	A
Trichlorofluoromethane	2	ug/m3		1	0.07	TO-15			10/14/10 22:05	JSS	A
1,2,3-Trichloropropane	1 U	ug/m3		1	0.1	TO-15			10/14/10 22:05	JSS	A
1 [illegible]rimethylbenzene	1	ug/m3		1	0.06	TO-15			10/14/10 22:05	JSS	A
1,[illegible]-Trimethylbenzene	1 U	ug/m3		1	0.07	TO-15			10/14/10 22:05	JSS	A
1,2,3-Trimethylbenzene	1 U	ug/m3		1	0.05	TO-15			10/14/10 22:05	JSS	A
Vinyl Acetate	2	ug/m3		0.7	0.06	TO-15			10/14/10 22:05	JSS	A
Vinyl Bromide	0.9 U	ug/m3		0.9	0.07	TO-15			10/14/10 22:05	JSS	A
Vinyl Chloride	0.5 U	ug/m3		0.5	0.04	TO-15			10/14/10 22:05	JSS	A
o-Xylene	0.9	ug/m3		0.9	0.05	TO-15			10/14/10 22:05	JSS	A
mp-Xylenes	2	ug/m3		2	0.1	TO-15			10/14/10 22:05	JSS	A

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	101	%		70-130	TO-15			10/14/10 22:05	JSS	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Lab ID: 9869825004
Sample ID: FH100710AST03

Date Collected: 10/7/2010 14:36
Date Received: 10/8/2010 10:00

Matrix: Air

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
SUBCONTRACTED ANALYSIS											
Subcontracted Analysis	See attached					Subcontract			10/14/10 00:00	CLT	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Lab ID: 9869825005
Sample ID: FH100710SET015

Date Collected: 10/7/2010 14:01
Date Received: 10/8/2010 10:00

Matrix: Air

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS @ STP											
Acetone	6.4	ppbv	1	0.20	0.034	TO-15			10/15/10 02:31	JSS	A
Acrylonitrile	0.20 U	ppbv		0.20	0.016	TO-15			10/15/10 02:31	JSS	A
tert-Amyl methyl ether	0.20 U	ppbv		0.20	0.012	TO-15			10/15/10 02:31	JSS	A
Benzene	0.20 U	ppbv		0.20	0.021	TO-15			10/15/10 02:31	JSS	A
Benzyl Chloride	0.20 U	ppbv		0.20	0.015	TO-15			10/15/10 02:31	JSS	A
Bromodichloromethane	0.20 U	ppbv		0.20	0.012	TO-15			10/15/10 02:31	JSS	A
Bromoform	0.20 U	ppbv		0.20	0.010	TO-15			10/15/10 02:31	JSS	A
Bromomethane	0.20 U	ppbv		0.20	0.021	TO-15			10/15/10 02:31	JSS	A
1,3-Butadiene	0.21	ppbv		0.20	0.053	TO-15			10/15/10 02:31	JSS	A
n-Butane	0.93	ppbv		0.20	0.030	TO-15			10/15/10 02:31	JSS	A
2-Butanone	2.4	ppbv		0.20	0.017	TO-15			10/15/10 02:31	JSS	A
tert-Butyl Alcohol	0.30	ppbv		0.20	0.014	TO-15			10/15/10 02:31	JSS	A
C[illegible]n Disulfide	0.20 U	ppbv		0.20	0.013	TO-15			10/15/10 02:31	JSS	A
[illegible]n Tetrachloride	0.20 U	ppbv		0.20	0.014	TO-15			10/15/10 02:31	JSS	A
C[illegible]orobenzene	0.20 U	ppbv		0.20	0.016	TO-15			10/15/10 02:31	JSS	A
Chlorodibromomethane	0.20 U	ppbv		0.20	0.0080	TO-15			10/15/10 02:31	JSS	A
Chloroethane	0.20 U	ppbv		0.20	0.018	TO-15			10/15/10 02:31	JSS	A
Chloroform	0.20 U	ppbv		0.20	0.0080	TO-15			10/15/10 02:31	JSS	A
Chloromethane	0.20 U	ppbv		0.20	0.018	TO-15			10/15/10 02:31	JSS	A
3-Chloro-1-propene	0.20 U	ppbv		0.20	0.014	TO-15			10/15/10 02:31	JSS	A
o-Chlorotoluene	0.20 U	ppbv		0.20	0.017	TO-15			10/15/10 02:31	JSS	A
Cyclohexane	0.20 U	ppbv		0.20	0.011	TO-15			10/15/10 02:31	JSS	A
1,2-Dibromoethane	0.20 U	ppbv		0.20	0.010	TO-15			10/15/10 02:31	JSS	A
1,2-Dichlorobenzene	0.20 U	ppbv		0.20	0.0090	TO-15			10/15/10 02:31	JSS	A
1,3-Dichlorobenzene	0.20 U	ppbv		0.20	0.015	TO-15			10/15/10 02:31	JSS	A
1,4-Dichlorobenzene	0.20 U	ppbv		0.20	0.013	TO-15			10/15/10 02:31	JSS	A
Dichlorodifluoromethane	0.20 U	ppbv		0.20	0.011	TO-15			10/15/10 02:31	JSS	A
1,1-Dichloroethane	0.20 U	ppbv		0.20	0.014	TO-15			10/15/10 02:31	JSS	A
1,2-Dichloroethane	0.20 U	ppbv		0.20	0.016	TO-15			10/15/10 02:31	JSS	A
1,1-Dichloroethene	0.20 U	ppbv		0.20	0.017	TO-15			10/15/10 02:31	JSS	A
cis-1,2-Dichloroethene	0.20 U	ppbv		0.20	0.036	TO-15			10/15/10 02:31	JSS	A
trans-1,2-Dichloroethene	0.20 U	ppbv		0.20	0.010	TO-15			10/15/10 02:31	JSS	A
1,2-Dichloropropane	0.20 U	ppbv		0.20	0.016	TO-15			10/15/10 02:31	JSS	A
cis-1,3-Dichloropropene	0.20 U	ppbv		0.20	0.013	TO-15			10/15/10 02:31	JSS	A
trans-1,3-Dichloropropene	0.20 U	ppbv		0.20	0.013	TO-15			10/15/10 02:31	JSS	A
1,3-Dichloropropene, Total	0.40 U	ppbv		0.40	0.10	TO-15			10/15/10 02:31	JSS	A
Diisopropyl ether	0.34	ppbv		0.20	0.14	TO-15			10/15/10 02:31	JSS	A
1,4-Dioxane	0.20 U	ppbv		0.20	0.021	TO-15			10/15/10 02:31	JSS	A
Ethanol	3.3	ppbv	2	0.20	0.083	TO-15			10/15/10 02:31	JSS	A
Ethyl Acetate	0.20 U	ppbv		0.20	0.14	TO-15			10/15/10 02:31	JSS	A
Ethyl tert-butyl ether	0.20 U	ppbv		0.20	0.014	TO-15			10/15/10 02:31	JSS	A
E[illegible]enzene	0.20 U	ppbv		0.20	0.0090	TO-15			10/15/10 02:31	JSS	A
4-[illegible]toluene	0.20 U	ppbv		0.20	0.012	TO-15			10/15/10 02:31	JSS	A
Freon 113	0.20 U	ppbv		0.20	0.014	TO-15			10/15/10 02:31	JSS	A
Freon-114	0.20 U	ppbv		0.20	0.019	TO-15			10/15/10 02:31	JSS	A
Heptane	0.20 U	ppbv		0.20	0.021	TO-15			10/15/10 02:31	JSS	A

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ANALYTICAL RESULTS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Lab ID: **9869825005** Date Collected: 10/7/2010 14:01 Matrix: Air

Sample ID: **FH100710SET015** Date Received: 10/8/2010 10:00

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobutadiene	0.20 U	ppbv		0.20	0.019	TO-15			10/15/10 02:31	JSS	A
Hexane	0.60	ppbv		0.20	0.014	TO-15			10/15/10 02:31	JSS	A
2-Hexanone	0.20 U	ppbv		0.20	0.012	TO-15			10/15/10 02:31	JSS	A
Isopropyl Alcohol	0.46	ppbv	3	0.20	0.018	TO-15			10/15/10 02:31	JSS	A
Isopropylbenzene	0.20 U	ppbv		0.20	0.012	TO-15			10/15/10 02:31	JSS	A
p-Isopropyltoluene	0.20 U	ppbv		0.20	0.014	TO-15			10/15/10 02:31	JSS	A
Methyl methacrylate	0.20 U	ppbv		0.20	0.015	TO-15			10/15/10 02:31	JSS	A
Methyl t-Butyl Ether	0.20 U	ppbv		0.20	0.012	TO-15			10/15/10 02:31	JSS	A
4-Methyl-2-Pentanone(MIBK)	0.20 U	ppbv		0.20	0.018	TO-15			10/15/10 02:31	JSS	A
Methylene Chloride	1.5	ppbv		0.20	0.013	TO-15			10/15/10 02:31	JSS	A
Naphthalene	0.20 U	ppbv		0.20	0.027	TO-15			10/15/10 02:31	JSS	A
iso-Octane	0.53	ppbv		0.20	0.011	TO-15			10/15/10 02:31	JSS	A
n-Propylbenzene	0.20 U	ppbv		0.20	0.014	TO-15			10/15/10 02:31	JSS	A
P[illegible]ene	0.20 U	ppbv		0.20	0.019	TO-15			10/15/10 02:31	JSS	A
S[illegible]e	0.20 U	ppbv		0.20	0.015	TO-15			10/15/10 02:31	JSS	A
1,1,2,2-Tetrachloroethane	0.20 U	ppbv		0.20	0.015	TO-15			10/15/10 02:31	JSS	A
Tetrachloroethene	0.20 U	ppbv		0.20	0.011	TO-15			10/15/10 02:31	JSS	A
Tetrahydrofuran	11	ppbv		0.20	0.011	TO-15			10/15/10 02:31	JSS	A
Toluene	0.20 U	ppbv		0.20	0.0090	TO-15			10/15/10 02:31	JSS	A
Total Xylenes	0.60 U	ppbv		0.60	0.10	TO-15			10/15/10 02:31	JSS	A
1,2,4-Trichlorobenzene	0.20 U	ppbv		0.20	0.019	TO-15			10/15/10 02:31	JSS	A
1,1,1-Trichloroethane	0.20 U	ppbv		0.20	0.014	TO-15			10/15/10 02:31	JSS	A
1,1,2-Trichloroethane	0.20 U	ppbv		0.20	0.016	TO-15			10/15/10 02:31	JSS	A
Trichloroethene	0.20 U	ppbv		0.20	0.011	TO-15			10/15/10 02:31	JSS	A
Trichlorofluoromethane	0.20 U	ppbv		0.20	0.013	TO-15			10/15/10 02:31	JSS	A
1,2,3-Trichloropropane	0.20 U	ppbv		0.20	0.017	TO-15			10/15/10 02:31	JSS	A
1,2,4-Trimethylbenzene	0.20 U	ppbv		0.20	0.013	TO-15			10/15/10 02:31	JSS	A
1,3,5-Trimethylbenzene	0.20 U	ppbv		0.20	0.014	TO-15			10/15/10 02:31	JSS	A
1,2,3-Trimethylbenzene	0.20 U	ppbv		0.20	0.010	TO-15			10/15/10 02:31	JSS	A
Vinyl Acetate	2.6	ppbv		0.20	0.016	TO-15			10/15/10 02:31	JSS	A
Vinyl Bromide	0.20 U	ppbv		0.20	0.016	TO-15			10/15/10 02:31	JSS	A
Vinyl Chloride	0.20 U	ppbv		0.20	0.016	TO-15			10/15/10 02:31	JSS	A
o-Xylene	0.20 U	ppbv		0.20	0.012	TO-15			10/15/10 02:31	JSS	A
mp-Xylene	0.40 U	ppbv		0.40	0.022	TO-15			10/15/10 02:31	JSS	A
Acetone	15	ug/m3		0.5	0.08	TO-15			10/15/10 02:31	JSS	A
Acrylonitrile	0.4 U	ug/m3		0.4	0.04	TO-15			10/15/10 02:31	JSS	A
tert-Amyl methyl ether	0.8 U	ug/m3		0.8	0.05	TO-15			10/15/10 02:31	JSS	A
Benzene	0.6 U	ug/m3		0.6	0.07	TO-15			10/15/10 02:31	JSS	A
Benzyl Chloride	1 U	ug/m3		1	0.08	TO-15			10/15/10 02:31	JSS	A
Bromodichloromethane	1 U	ug/m3		1	0.08	TO-15			10/15/10 02:31	JSS	A
Bromoform	2 U	ug/m3		2	0.1	TO-15			10/15/10 02:31	JSS	A
Br[illegible]omethane	0.8 U	ug/m3		0.8	0.08	TO-15			10/15/10 02:31	JSS	A
1,[illegible]adiene	0.5	ug/m3		0.4	0.1	TO-15			10/15/10 02:31	JSS	A
n-Butane	2	ug/m3		0.5	0.07	TO-15			10/15/10 02:31	JSS	A
2-Butanone	7	ug/m3		0.6	0.05	TO-15			10/15/10 02:31	JSS	A
tert-Butyl Alcohol	0.9	ug/m3		0.6	0.04	TO-15			10/15/10 02:31	JSS	A

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ANALYTICAL RESULTS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Lab ID: **9869825005** Date Collected: 10/7/2010 14:01 Matrix: Air

Sample ID: **FH100710SET015** Date Received: 10/8/2010 10:00

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Carbon Disulfide	0.6 U	ug/m3		0.6	0.04	TO-15			10/15/10 02:31	JSS	A
Carbon Tetrachloride	1 U	ug/m3		1	0.09	TO-15			10/15/10 02:31	JSS	A
Chlorobenzene	0.9 U	ug/m3		0.9	0.07	TO-15			10/15/10 02:31	JSS	A
Chlorodibromomethane	2 U	ug/m3		2	0.07	TO-15			10/15/10 02:31	JSS	A
Chloroethane	0.5 U	ug/m3		0.5	0.05	TO-15			10/15/10 02:31	JSS	A
Chloroform	1 U	ug/m3		1	0.04	TO-15			10/15/10 02:31	JSS	A
Chloromethane	0.4 U	ug/m3		0.4	0.04	TO-15			10/15/10 02:31	JSS	A
3-Chloro-1-propene	0.6 U	ug/m3		0.6	0.04	TO-15			10/15/10 02:31	JSS	A
o-Chlorotoluene	1 U	ug/m3		1	0.09	TO-15			10/15/10 02:31	JSS	A
Cyclohexane	0.7 U	ug/m3		0.7	0.04	TO-15			10/15/10 02:31	JSS	A
1,2-Dibromoethane	2 U	ug/m3		2	0.08	TO-15			10/15/10 02:31	JSS	A
1,2-Dichlorobenzene	1 U	ug/m3		1	0.05	TO-15			10/15/10 02:31	JSS	A
1,3-Dichlorobenzene	1 U	ug/m3		1	0.09	TO-15			10/15/10 02:31	JSS	A
1,4-Dichlorobenzene	1 U	ug/m3		1	0.08	TO-15			10/15/10 02:31	JSS	A
D[illegible]rodifluoromethane	1 U	ug/m3		1	0.05	TO-15			10/15/10 02:31	JSS	A
1,1-Dichloroethane	0.8 U	ug/m3		0.8	0.06	TO-15			10/15/10 02:31	JSS	A
1,2-Dichloroethane	0.8 U	ug/m3		0.8	0.06	TO-15			10/15/10 02:31	JSS	A
1,1-Dichloroethene	0.8 U	ug/m3		0.8	0.07	TO-15			10/15/10 02:31	JSS	A
cis-1,2-Dichloroethene	0.8 U	ug/m3		0.8	0.1	TO-15			10/15/10 02:31	JSS	A
trans-1,2-Dichloroethene	0.8 U	ug/m3		0.8	0.04	TO-15			10/15/10 02:31	JSS	A
1,2-Dichloropropane	0.9 U	ug/m3		0.9	0.07	TO-15			10/15/10 02:31	JSS	A
cis-1,3-Dichloropropene	0.9 U	ug/m3		0.9	0.06	TO-15			10/15/10 02:31	JSS	A
trans-1,3-Dichloropropene	0.9 U	ug/m3		0.9	0.06	TO-15			10/15/10 02:31	JSS	A
1,3-Dichloropropene, Total	2 U	ug/m3		2	0.1	TO-15			10/15/10 02:31	JSS	A
Diisopropyl ether	1	ug/m3		0.8	0.6	TO-15			10/15/10 02:31	JSS	A
1,4-Dioxane	0.7 U	ug/m3		0.7	0.08	TO-15			10/15/10 02:31	JSS	A
Ethanol	6	ug/m3		0.4	0.2	TO-15			10/15/10 02:31	JSS	A
Ethyl Acetate	0.8 U	ug/m3		0.8	0.5	TO-15			10/15/10 02:31	JSS	A
Ethyl tert-butyl ether	0.8 U	ug/m3		0.8	0.06	TO-15			10/15/10 02:31	JSS	A
Ethylbenzene	0.9 U	ug/m3		0.9	0.04	TO-15			10/15/10 02:31	JSS	A
4-Ethyltoluene	1 U	ug/m3		1	0.06	TO-15			10/15/10 02:31	JSS	A
Freon 113	2 U	ug/m3		2	0.1	TO-15			10/15/10 02:31	JSS	A
Freon-114	1 U	ug/m3		1	0.1	TO-15			10/15/10 02:31	JSS	A
Heptane	0.8 U	ug/m3		0.8	0.09	TO-15			10/15/10 02:31	JSS	A
Hexachlorobutadiene	2 U	ug/m3		2	0.2	TO-15			10/15/10 02:31	JSS	A
Hexane	2	ug/m3		0.7	0.05	TO-15			10/15/10 02:31	JSS	A
2-Hexanone	0.8 U	ug/m3		0.8	0.05	TO-15			10/15/10 02:31	JSS	A
Isopropyl Alcohol	1	ug/m3		0.5	0.04	TO-15			10/15/10 02:31	JSS	A
Isopropylbenzene	1 U	ug/m3		1	0.06	TO-15			10/15/10 02:31	JSS	A
p-Isopropyltoluene	1 U	ug/m3		1	0.08	TO-15			10/15/10 02:31	JSS	A
Methyl Methacrylate	0.8 U	ug/m3		0.8	0.06	TO-15			10/15/10 02:31	JSS	A
Methyl t-Butyl Ether	0.7 U	ug/m3		0.7	0.04	TO-15			10/15/10 02:31	JSS	A
4[illegible]yl-2-P[illegible]one(MIBK)	0.8 U	ug/m3		0.8	0.07	TO-15			10/15/10 02:31	JSS	A
Methylene Chloride	5	ug/m3		0.7	0.04	TO-15			10/15/10 02:31	JSS	A
Naphthalene	1 U	ug/m3		1	0.1	TO-15			10/15/10 02:31	JSS	A
iso-Octane	2	ug/m3		0.9	0.05	TO-15			10/15/10 02:31	JSS	A

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ANALYTICAL RESULTS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Lab ID: **9869825005** Date Collected: 10/7/2010 14:01 Matrix: Air

Sample ID: **FH100710SET015** Date Received: 10/8/2010 10:00

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
n-Propylbenzene	1 U	ug/m3		1	0.07	TO-15			10/15/10 02:31	JSS	A
Propylene	0.3 U	ug/m3		0.3	0.03	TO-15			10/15/10 02:31	JSS	A
Styrene	0.8 U	ug/m3		0.8	0.06	TO-15			10/15/10 02:31	JSS	A
1,1,2,2-Tetrachloroethane	1 U	ug/m3		1	0.07	TO-15			10/15/10 02:31	JSS	A
Tetrachloroethene	1 U	ug/m3		1	0.08	TO-15			10/15/10 02:31	JSS	A
Tetrahydrofuran	31	ug/m3		0.6	0.03	TO-15			10/15/10 02:31	JSS	A
Toluene	0.8 U	ug/m3		0.8	0.03	TO-15			10/15/10 02:31	JSS	A
Total Xylenes	3 U	ug/m3		3	0.1	TO-15			10/15/10 02:31	JSS	A
1,2,4-Trichlorobenzene	1 U	ug/m3		1	0.1	TO-15			10/15/10 02:31	JSS	A
1,1,1-Trichloroethane	1 U	ug/m3		1	0.08	TO-15			10/15/10 02:31	JSS	A
1,1,2-Trichloroethane	1 U	ug/m3		1	0.09	TO-15			10/15/10 02:31	JSS	A
Trichloroethene	1 U	ug/m3		1	0.06	TO-15			10/15/10 02:31	JSS	A
Trichlorofluoromethane	1 U	ug/m3		1	0.07	TO-15			10/15/10 02:31	JSS	A
1,2,3-Trichloropropane	1 U	ug/m3		1	0.1	TO-15			10/15/10 02:31	JSS	A
1 Trimethylbenzene	1 U	ug/m3		1	0.06	TO-15			10/15/10 02:31	JSS	A
1,3,5-Trimethylbenzene	1 U	ug/m3		1	0.07	TO-15			10/15/10 02:31	JSS	A
1,2,3-Trimethylbenzene	1 U	ug/m3		1	0.05	TO-15			10/15/10 02:31	JSS	A
Vinyl Acetate	9	ug/m3		0.7	0.06	TO-15			10/15/10 02:31	JSS	A
Vinyl Bromide	0.9 U	ug/m3		0.9	0.07	TO-15			10/15/10 02:31	JSS	A
Vinyl Chloride	0.5 U	ug/m3		0.5	0.04	TO-15			10/15/10 02:31	JSS	A
o-Xylene	0.9 U	ug/m3		0.9	0.05	TO-15			10/15/10 02:31	JSS	A
mp-Xylenes	2 U	ug/m3		2	0.1	TO-15			10/15/10 02:31	JSS	A

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
4-Bromofluorobenzene (S)	101	%		70-130	TO-15			10/15/10 02:31	JSS	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

Lab ID: 9869825006 Date Collected: 10/7/2010 14:08 Matrix: Air
Sample ID: FH100710SET03 Date Received: 10/8/2010 10:00

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
SUBCONTRACTED ANALYSIS											
Subcontracted Analysis	See attached					Subcontract			10/14/10 00:00	CLT	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder 9869825 SFM018|FT HAMILTON-NY PROJ

PARAMETER QUALIFIERS\FLAGS

[1] The QC sample type LCS for method TO-15 was outside the control limits for the analyte Acetone. The % Recovery was reported as 142 and the control limits were 60 to 140.

[2] The QC sample type LCS for method TO-15 was outside the control limits for the analyte Ethanol. The % Recovery was reported as 143 and the control limits were 60 to 140.

[3] The QC sample type LCS for method TO-15 was outside the control limits for the analyte Isopropyl Alcohol. The % Recovery was reported as 147 and the control limits were 60 to 140.

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS
Page 1 of 1

Client: Analytical Laboratory Services
Client Project ID: 9869825

CAS Project ID: P1003808

Total Petroleum Hydrocarbons (TPH) as JP-4

Test Code: EPA TO-3 Modified
Instrument ID: HP 5890 II/GC19/FID
Analyst: Wade Henton
Sampling Media: 1.0 L Tedlar Bag(s)
Test Notes:

Date(s) Collected: 10/7/10
Date Received: 10/14/10
Date Analyzed: 10/14/10

Client Sample ID	CAS Sample ID	Injection Volume ml(s)	Result mg/m³	MRL mg/m³	Result ppmV	MRL ppmV	Data Qualifier
9869825-002	P1003808-001	1.0	ND	20	ND	4.9	H3
9869825-004	P1003808-002	1.0	ND	20	ND	4.9	H3
9869825-006	P1003808-003	1.0	ND	20	ND	4.9	H3
Method Blank	P101014-MB	1.0	ND	20	ND	4.9	

Parts Per Million results are based on a Molecular Weight of 100.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
H3 = Sample was received and analyzed past holding time.

P1003808_TPH - TPH

Verified By:_____ Date:_____

TPHG-JP XLT - Page No.

Case Narrative

90277

Analytical Laboratory Services Inc.
Analytical Narrative
Shaw E&I Inc.
SFM-018

Sample Management

This report contains the results of the analysis of six (6) air samples collected on October 7, 2010. Analytical results and quality control information are summarized in this data package.

Sample Receipt

The samples arrived at ALSI via courier on October 8, 2010. Upon receipt, the samples were inspected and compared to the enclosed chain of custody. The samples were assigned a unique identification number (see Certificate of Analysis). The sample information was entered into the computer system and the samples were released for analysis.

Volatile Organics by EPA Method TO-15

Sample Handling. Three (3) air samples were analyzed on MS13 by EPA Method TO-15 for volatile organic compounds. All analyses were performed within the holding time.

Canister Certification. All sample canisters were certified before delivery to the client according to the table below. In the canister certification sample (1834), acetone was detected at 0.36ppbv, n-butane was detected at 0.23 ppbv, carbon disulfide was detected at 0.23pbv, and ethanol was detected at 0.30 ppbv. These are all common laboratory contaminants and are allowable in the canister certification blank up to 0.5 ppbv. No other target analytes were detected above the reporting limit in the canister certification blanks.

Client Sample ID	ALSI Sample ID	Canister Identification #	Canister Certification File ID #
FH100710SITO15	9869825001	1837	13093006
FH100710AST015	9869825003	1206	13093006
FH100710SETO15	9869825005	1049	13093006

Initial Calibrations. Prior to all analyses, six-point initial calibrations were analyzed on MS13. The calibrations were used to quantitate the canister certification blanks, samples, method blanks and spikes. The initial calibrations met method criteria for all target analytes. Immediately following each initial calibration, an initial calibration verification standard (ICV) was analyzed. Target analyte results for the ICVs were within method control limits.

Continuing Calibrations. The low-level method employs the use of a closing continuing calibration standard (CCVS). Results for all target analytes were within control limits, except as follows:

- In the closing CCV analyzed on 10/15/2010 at 08:50, the result for 1,2-dichlorotetrafluoroethane (Freon 114) was above control limits. This analyte was not detected in the associated project samples, so there is no impact on the data.

Blanks. One method blank, identified as 759881, was analyzed with the samples in deliverable group. No target analytes were detected above the reporting limit in the method blank. Ethanol was detected at 0.34 ppbv. A method blank, identified as 753921, was analyzed in conjunction with the canister certification batch. Acetone was detected at 0.32 ppbv and isopropanol was detected at 0.23 ppbv. These are all

common laboratory contaminants and are allowable in the method blanks up to 0.5 ppbv. There were no target analytes detected above the reporting limit in the method blanks.

Surrogates. One surrogate, bromofluorobenzene, was added to each sample, blank and spike. All surrogates were recovered within control limits.

Internal Standards. A three-component internal standard mix was added to each sample, blank and spike. All retention time results were within method control limits of ±0.33 minutes. All area results were within method control limits of ±40%.

Reporting Limit Laboratory Control Sample. A Reporting Limit Laboratory Control Samples (RL-LCS), identified as 759882, was analyzed with the samples in deliverable group. All target analytes recoveries were within control limits of ±40%, except as follows:

- The recovery results for acetone, ethanol and ispropanol were above control limits. Results for these analytes have been qualified on the Certificate of Analysis.

An RL-LCS, identified as 753922, was analyzed in conjunction with the canister certification batch. All target analytes recoveries were within control limits of ±40%, except as follows:

- The recovery results for acetone, dichlorodifluoromethane, ethanol and ispropanol were above control limits.
- The recovery result for diisopropylether was below control limits.
- There was no recovery of propylene.

Process Control Samples

Process Control Sample

Collected

October 25, 2010

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Certificate of Analysis

Project Name:	FORT HAMILTON-NY PROJECT	Workorder:	9872575
Purchase Order:	454617	Workorder ID:	SFM019|FT HAMILTON-NY PROJ

Mr. Terence McHugh
Shaw E & I Inc.-Mt Arlington-NJ
111 Howard Blvd., Suite 110
Mount Arlington, NJ 07856

November 3, 2010

Dear Mr. McHugh,

Enclosed are the analytical results for samples received by the laboratory on Tuesday, October 26, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Denise Brooks (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Ms. Michelle Lobsiger

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder: 9872575 SFM019|FT HAMILTON-NY PROJ

Discard Date: 11/17/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9872575001	PCCE102510	Air	10/25/10 14:01	10/26/10 10:11	Terence McHugh
9872575002	PCCI102510	Air	10/25/10 14:31	10/26/10 10:11	Terence McHugh

Workorder Comments:

See results from Columbia Analytical Svc. for the subcontracted analysis. DLB 11/3/10

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9872575 SFM019|FT HAMILTON-NY PROJ

Lab ID: **9872575001**
Sample ID: **PCCE102510**

Date Collected: 10/25/2010 14:01
Date Received: 10/26/2010 10:11

Matrix: Air

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
SUBCONTRACTED ANALYSIS											
Subcontracted Analysis	See attached					Subcontract			11/3/10 12:07	DLB	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder: 9872575 SFM019|FT HAMILTON-NY PROJ

Lab ID: **9872575002**
Sample ID: **PCCI102510**

Date Collected: 10/25/2010 14:31
Date Received: 10/26/2010 10:11

Matrix: Air

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
SUBCONTRACTED ANALYSIS											
Subcontracted Analysis	See attached					Subcontract			11/3/10 12:07	CLT	A

Sample Comments:

Anna G Milliken
Laboratory Manager

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

AIR ANALYSIS
CHAIN-OF-CUSTODY/REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC # ____ of ____
ALSI C ____

* 9 8 7 2 5 7 5 *

1. CLIENT INFORMATION

Client Name/Address: SHAW E&I
111 HOWARD BLVD, SUITE 100
MT. ARLINGTON, NJ 07856
Contact: Michelle Lubsiger
Phone#: 973-770-5313
Project Name/#:
Bill To:
TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALSI approval and surcharges.
Date Required: ____ Approved By: ____
Email? [ ] -Y
Fax? [ ] -Y No.:

2. ANALYSES/METHOD REQUESTED

✓ APPROPRIATE TEST CODE/ANALYTE LIST.

No.	TO-15 Analysis	STD LIST	UST LIST	OTHER	TO-13 Analysis	STD LIST	OTHER	COMMENTS
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Receipt information for TO-13 only. (completed by Receiving Lab)

Cooler Temp: N/A Therm. ID:
No. of Coolers: ____

	Y	N	Initial
Custody Seals Present?		✓	NM
(If present) Seals Intact?			
(TO-13) Received on Ice?		✓	
COC/Labels Complete/Accurate?	✓		
Cont. in Good Cond.?	✓		
Correct Containers?	✓		
Correct Sample Volumes?	✓		✓

Courier/Tracking #: 12 724 9142 2 1602 3854

3. FIELD DATA SHEET

SAMPLE INFORMATION FOR BOTH TO-15 AND TO-13 / TO-15 FIELD DATA / TO-13 FIELD DATA

	Sample Description/Location (as it will appear on the lab report)	Sample Date	Start Time	Stop Time	Temp Deg C	1L	6L	Canister No.	Flow Controller No.	Ending Canister Pressure ("Hg)	PUF No.	Pump No.	Pump Flow Rate	Total Volume
1	PLCE102510	10/26/10	1400	1401	–	X		TO Lab Bag	(Analyze for Benzene only)				(TO3)	
2	PLCI102510	10/26/10	1430	1431	–	X		TO Lab Bag	(Analyze for Benzene only)				(TO3)	
3														
4														
5														
6														
7														
8														
9														
10														

4. SAMPLED BY (Please Print): Terry McHugh

LOGGED BY (signature): [signature] DATE 10/26/10 TIME 1032
REVIEWED BY (signature): [signature] DATE 10/28/10 TIME 1404

	Relinquished By / Company Name	Date	Time		Received By / Company Name	Date	Time
1	[signature] (SHAW)	10/26/10	1600	2	[signature] ALSI	10/26/10	1011
3				4			
5				6			
7				8			
9				10			

5. PROJECT INFORMATION

Data Deliverables: [ ] Standard [ ] CLP-like [ ] DOD [ ] Other
EDDs: Format Type:
ALSI Field Services: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment
Other:

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] NC [ ] other

Rev 4/09

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ACCREDITED IN ACCORDANCE WITH nelac

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Columbia Analytical Services™ 2655 Park Center Drive, Suite A, Simi Valley, CA 93065 805.526.7161 www.caslab.com

LABORATORY REPORT

November 2, 2010

Denise Brooks
Analytical Laboratory Services
34 Dogwood Lane
Middletown, PA 17057

RE: 9872575

Dear Denise:

Enclosed are the results of the samples submitted to our laboratory on October 27, 2010. For your reference, these analyses have been assigned our service request number P1003999.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP), Certificate No. L10-3; Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-09-TX; Minnesota Department of Health, Certificate No. 11495AA; Washington State Department of Ecology, ELAP Lab ID: C946. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.

Kelly M Horiuchi Digitally signed by Kelly Horiuchi
Date: 2010.11.02 11:39:07 -07'00'

Kelly Horiuchi
Laboratory Director

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Client: Analytical Laboratory Services
Project: 9872575

CAS Project No: P1003999

CASE NARRATIVE

The samples were received intact under chain of custody on October 27, 2010 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Total Petroleum Hydrocarbons as JP-4 Analysis

The samples were analyzed for total petroleum hydrocarbons (TPH) as JP-4 per modified EPA Method TO-3 using a gas chromatograph equipped with a flame ionization detector (FID).

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

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DETAIL SUMMARY REPORT

Client: Analytical Laboratory Services
Project ID: 9872575
Service Request: P1003999

Date Received: 10/27/10
Time Received: 09:45

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	TO-3 Modified - TPH JP4 Bag
9872575001	P1003999-001	Air	10/25/10	14:01	X
9872575002	P1003999-002	Air	10/25/10	14:31	X

Analytical Laboratory Services, Inc.
Environmental w Industrial Hygiene w Field Services
34 Dogwood Lane w Middletown, PA 17057 w 717 944 5541 w Fax: 717 944 1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: P1003999 of
ALSI Quote #:

Client Name: ALSI
Address: 34 Dogwood Lane Middletown PA 17057
Contact: De Brooks
Phone#: 717-944-5541 ext 3131
Project Name/#: 9872575
Bill To: ALSI

TAT: [ ] Normal-Standard TAT is 10-12 business days. [x] Rush-Subject to ALSI approval and surcharges.
Date Required: 10/29/2010 Approved By:
Email? [x] -Y dbrooks@analyticallab.com
Fax? [ ] -Y No.:

Container Type / Container Size / Preservative

ANALYSES/METHOD REQUESTED

Enter Number of Containers Per Sample or Field Results Below.

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	TO3
1 9872575001	10/25/10	1401			1
2 9872575002	10/25/10	1431			1
3					
4					
5					
6					
7					
8					
9					
10					

Project Comments:

Logged By (initials/date/time)
Reviewed By (initials/date/time)

Receipt Information (completed by Receiving Lab)
Cooler Temp: ____ Cooler #: ____
Therm. ID ____

	Y	N
Custody Seals Present?		
(if present) Seals Intact?		
Received on Ice?		
COC/Labels Agree?		
Cont. in Good Cond.?		
Correct Containers?		
Correct Sample Volumes?		
Correct Preservation?		

Information concerning all noncompliance samples/containers shall be recorded on the COC.

Ship. Carrier: UPS / FedEx / DHL / Other ____
Tracking #: ____

Sample/COC Comments

Please subcontrat to
Columbia Analytical Services, Inc.
Requesting 48 hour TAT

ALSI Field Services: oPickup oLabor oComposite Sampling oRental Equipment oOther: ____

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1			2		
3 [signature] ALSI	10/26	1650	4 [signature]	10/27/10	0945
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ] NJ Reduced

Reportable to PADEP? Yes [ ]
PWSID #

Special Processing: USACE [ ] Navy [ ] [ ]

Sample Disposal: Lab [ ] Special [ ]

State Samples Collected in: [ ] NY [ ] NJ [x] PA [ ] NC [ ]

EDDS: Format Type:

*G=Grab, C=Composite **Matrix - AI=Air, DW=Drinking Water, GW=Groundwater, OI=Oil, OL=Other Liquid, SL=Sludge, SO=Soil, WP=Wipe, WW=Wastewater

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Columbia Analytical Services™ 2655 Park Center Drive, Suite A, Simi Valley, CA 93065 : 805.526.7161 : www.caslab.com

Sample Acceptance Check Form

Client: Analytical Laboratory Services
Project: 9872575
Work order: P1003999
Sample(s) received on: 10/27/10
Date opened: 10/27/10 by: MZAMORA

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were sample containers properly marked with client sample ID?	☒	☐	☐
2	Container(s) supplied by CAS?	☐	☒	☐
3	Did sample containers arrive in good condition?	☒	☐	☐
4	Was a chain-of-custody provided?	☒	☐	☐
5	Was the chain-of-custody properly completed?	☒	☐	☐
6	Did sample container labels and/or tags agree with custody papers?	☒	☐	☐
7	Was sample volume received adequate for analysis?	☒	☐	☐
8	Are samples within specified holding times?	☒	☐	☐
9	Was proper temperature (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
	Cooler Temperature _____ °C Blank Temperature _____ °C			
10	Was a trip blank received?	☐	☒	☐
	Trip blank supplied by CAS: _____			
11	Were custody seals on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
12	Do containers have appropriate preservation, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are pH preserved?	☐	☐	☒
	Were VOA vials checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
13	Tubes: Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
14	Badges: Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1003999-001.01	1.0 L Tedlar Bag					
P1003999-002.01	1.0 L Tedlar Bag					

Explain any discrepancies: (include lab sample ID numbers): _____

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS. H2SO4 (pH<2); Metals: HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12); Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12) RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

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RESULTS OF ANALYSIS

Client: Analytical Laboratory Services
Client Project ID: 9872575

CAS Project ID: P1003999

Total Petroleum Hydrocarbons (TPH) as JP-4

Test Code: EPA TO-3 Modified
Instrument ID: HP 5890 II/GC19/FID
Analyst: Wade Henton
Sampling Media: 1.0 L Tedlar Bag(s)
Test Notes:

Date(s) Collected: 10/25/10
Date Received: 10/27/10
Date Analyzed: 10/27/10

Client Sample ID	CAS Sample ID	Injection Volume ml(s)	Result mg/m³	MRL mg/m³	Result ppmV	MRL ppmV	Data Qualifier
9872575001	P1003999-001	1.0	ND	20	ND	4.9	
9872575002	P1003999-002	1.0	41	20	10	4.9	
Method Blank	P101027-MB	1.0	ND	20	ND	4.9	

Parts Per Million results are based on a Molecular Weight of 100.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Analytical Laboratory Services
Client Sample ID: Lab Control Sample
Client Project ID: 9872575

CAS Project ID: P1003999
CAS Sample ID: P101027-LCS

Test Code: EPA TO-3 Modified
Instrument ID: HP 5890 II/GC19/FID
Analyst: Wade Henton
Sampling Media: 1.0 L Tedlar Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 10/27/10
Volume(s) Analyzed: NA ml(s)

Compound	Spike Amount mg/m³	Result mg/m³	% Recovery	CAS Acceptance Limits	Data Qualifier
TPH as JP-4	1,000	1,250	125	70-130	

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LABORATORY DUPLICATE SUMMARY RESULTS

Client: Analytical Laboratory Services
Client Sample ID: 9872575002
Client Project ID: 9872575

CAS Project ID: P1003999
CAS Sample ID: P1003999-002DUP

Test Code: EPA TO-3 Modified
Instrument ID: HP 5890 II/GC19/FID
Analyst: Wade Henton
Sampling Media: 1.0 L Tedlar Bag
Test Notes:

Date Collected: 10/25/10
Date Received: 10/27/10
Date Analyzed: 10/27/10
Volume(s) Analyzed: 1.0 ml(s)

Compound	Sample Result mg/m³	Sample Result ppmV	Duplicate Sample Result mg/m³	Duplicate Sample Result ppmV	Average mg/m³	% RPD	RPD Limit	Data Qualifier
TPH as JP-4	41.3	10.1	40.7	9.96	41	1	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

Analytical Laboratory Services, Inc.
Environmental w Industrial Hygiene w Field Services
34 Dogwood Lane w Middletown, PA 17057 w 717.944.5541 w Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/ SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: ____ of ____
ALSI Quote #:

Client Name: ALSI
Address: 34 Dogwood Lane Middletown PA 17057
Contact: De Brooks
Phone#: 717-944-5541 ext 3131
Project Name/#: 9872575
Bill To: ALSI

TAT [ ] Normal-Standard TAT is 10-12 business days.
[x] Rush-Subject to ALSI approval and surcharges.
Date Required: 10/29/2010 Approved By:
Email? [x] -Y dbrooks@analyticallab.com
Fax? [ ] -Y No.:

Container Type / Container Size / Preservative

ANALYSES/METHOD REQUESTED

Enter Number of Containers Per Sample or Field Results Below.

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	TO3
1 9872575001	10/25/10	1401			1
2 9872575002	10/25/10	1431			1
3					
4					
5					
6					
7					
8					
9					
10					

Project Comments:

Logged By (initials/date/time)
Reviewed By (initials/date/time)

Receipt Information (completed by Receiving Lab)
Cooler Temp: ____ Cooler #: ____
Therm. ID ____

	Y	N
Custody Seals Present?		
(if present) Seals Intact?		
Received on Ice?		
COC/Labels Agree?		
Cont. in Good Cond.?		
Correct Containers?		
Correct Sample Volumes?		
Correct Preservation?		

Information concerning all nonconformance samples/containers shall be recorded on the COC.

Ship. Carrier: UPS / FedEx / DHL / Other ____
Tracking #: ____

Sample/COC Comments
2655 Park Center Dr
Suite A Sim Valley Ca
93065
Please subcontrat to
Columbia Analytical Services, Inc.
Requesting 48 hour TAT
2655
805 526 7161

ALSI Field Services: oPickup oLabor oComposite Sampling oRental Equipment oOther: ____

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1			2		
3 [signature] ALSI	10/26	1630	4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ] NJ Reduced

Special Processing: USACE [ ] Navy [ ] [ ]

State Samples Collected In: [ ] NY [ ] NJ [x] PA [ ] NC [ ]

Reportable to PADEP? Yes [ ]
PWSID #
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type

*G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

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FedEx

Shipment Receipt
Address Information

Ship to:	Ship from:
Select or enter Columbia Analytical Services, Inc. 2605 PARK CENTER DR STE A	Steve Smith 34 DOGWOOD LANE
SIMI VALLEY, CA 93065-6209 US 8055267161	MIDDLETOWN, PA 17057 US 7179445541

Shipping Information
Tracking number: 794051307095
Ship date: 10/26/2010
Estimated shipping charges: 12.15

Package Information
Service type: Priority Overnight
Package type: Your Packaging
Number of packages: 1
Total weight: 2LBS
Declared value: 0.00USD
Special Services:
Pickup/Drop-off: Use an already scheduled pickup at my location

Billing Information
Bill transportation to: MyAccount-686
Your reference:
P.O. no.:
Invoice no.:
Department no.:

Thank you for shipping online with Fedex ShipManager at fedex.com.

Please Note

FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $500, e.g., jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits. Consult the applicable FedEx Service Guide for details.
The estimated shipping charge may be different than the actual charges for your shipment. Differences may occur based on actual weight, dimensions, and other factors. Consult the applicable FedEx Service Guide or the FedEx Rate Sheets for details on how shipping charges are calculated.

Process Control Sample

Collected

November 16, 2010

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34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

Certificate of Analysis

Project Name:	BENZENE IN TEDLAR BAG	Workorder:	9876428
Purchase Order:		Workorder ID:	BENZENE IN TEDLAR BAG

Mr. Terence McHugh
Shaw E & I Inc.-Mt Arlington-NJ
111 Howard Blvd., Suite 110
Mount Arlington, NJ 07856

November 18, 2010

Dear Mr. McHugh,

Enclosed are the analytical results for samples received by the laboratory on Wednesday, November 17, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Denise Brooks (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

Anna G Milliken
Laboratory Manager

his page is included as part of the Analytical Report and must be retained as a permanent record thereof.

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SAMPLE SUMMARY

Workorder: 9876428 BENZENE IN TEDLAR BAG

Discard Date: 12/02/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9876428001	PCCE111610	Air	11/16/10 13:00	11/17/10 10:25	Terence McHugh

Workorder Comments:

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9876428 BENZENE IN TEDLAR BAG

Lab ID: **9876428001**
Sample ID: **PCCE111610**
Date Collected: 11/16/2010 13:00
Date Received: 11/17/2010 10:25
Matrix: Air

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		mg/m3	0.50	SW846 8260B			11/17/10 21:59	DJB	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	71.3		%	62-133	SW846 8260B			11/17/10 21:59	DJB	A
4-Bromofluorobenzene (S)	106		%	79-114	SW846 8260B			11/17/10 21:59	DJB	A
Dibromofluoromethane (S)	93.1		%	78-116	SW846 8260B			11/17/10 21:59	DJB	A
Toluene-d8 (S)	90.2		%	76-127	SW846 8260B			11/17/10 21:59	DJB	A

Sample Comments:

Anna G Milliken
Laboratory Manager

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1
Courier: UPS
Tracking #: 1Z72 1914 22 1002 6468

9876428

Co. Name: SHAW E.I.
Contact (Report to): Michelle Lobsiger
Address: 111 Howard Blvd
Suite 110
Mt. Arlington NJ 07836
Phone: 973-770-5313

Bill to (if different than Report to): SAME
PO#:
Project Name/#:
ALSI Quote #: 205854
TAT: [ ] Normal-Standard TAT is 10-12 business days. [X] Rush-Subject to ALSI approval and surcharges.
Date Required: 11/22/10
Approved By: 205854
Email? [X] -Y Michelle.Lobsiger@Shawgrp.com
Fax? -Y No.:

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis
1	PCGE111610	Benzene only	11/16/10	1300	G	A	
2							
3							
4							
5							
6							
7							
8							

ANALYSES/METHOD REQUESTED: Benzene (8260) as per quote

Receipt Information (completed by Sample Receipts): Performed by: DS
Cooler Temp: 16°C
Therm. ID: 101332724
No. of Coolers:
Notes:

Correct containers? Y N
Correct sample volume? Y N
Correct preservation? Y N
Headspace/Volatiles? Y N
Circle appropriate Y or N.

Custody seals Present? Y N
(if present) Seals intact? Y N
Received on ice? Y N
COC/Labels complete/accurate? Y N
Container in good condition? Y N

SAMPLED BY (Please Print): T. McHugh
LOGGED BY (signature): [signature] Date 11-17-10 Time 1030
REVIEWED BY (signature): D Brown Date 11-18-10 Time 1017

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature]	11/16/10	1500	2		
3			4 [signature]	11/17/10	1025
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] ...
EDDs Required? [ ] If yes, format type:
SDWA Forms? yes yes yes yes
State Samples Collected In? MD NJ NY PA
Other
Enter PWSID No.
DOD Criteria Required?

ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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Process Control Sample

Collected

November 29, 2010

ANALYTICAL LABORATORY SERVICES, INC.

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PA 22-293 NJ PA010

ACCREDITED IN ACCORDANCE WITH nelac

34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

Certificate of Analysis

Project Name:	BENZENE IN TEDLAR BAG	Workorder:	9878104
Purchase Order:		Workorder ID:	BENZENE IN TEDLAR BAG

Mr. Terence McHugh
Shaw E & I Inc.-Mt Arlington-NJ
111 Howard Blvd., Suite 110
Mount Arlington, NJ 07856

December 8, 2010

Dear Mr. McHugh,

Enclosed are the analytical results for samples received by the laboratory on Tuesday, November 30, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Denise Brooks (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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Analytical Laboratory Services, Inc.

his page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

SAMPLE SUMMARY

Workorder: 9878104 BENZENE IN TEDLAR BAG

Discard Date: 12/22/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9878104001	PCCE112910	Air	11/29/10 10:15	11/30/10 10:15	Terence McHugh

Workorder Comments:

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder: 9878104 BENZENE IN TEDLAR BAG

Lab ID: **9878104001** Date Collected: 11/29/2010 10:15 Matrix: Air
Sample ID: **PCCE112910** Date Received: 11/30/2010 10:15

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		mg/m3	0.50	SW846 8260B			12/7/10 07:33	MES	A

Library Search - Volatiles

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	104		%	62-133	SW846 8260B			12/7/10 07:33	MES	A
4-Bromofluorobenzene (S)	86.1		%	79-114	SW846 8260B			12/7/10 07:33	MES	A
Dibromofluoromethane (S)	94.8		%	78-116	SW846 8260B			12/7/10 07:33	MES	A
Toluene-d8 (S)	98.5		%	76-127	SW846 8260B			12/7/10 07:33	MES	A

Sample Comments:

Anna G Milliken
Laboratory Manager

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1
Courier: UPS
Tracking #:
9878104

Co. Name: Shaw E&I
Contact (Report to): Michelle Lobsiger
Phone: 973 770-6313
Address: 111 Howard Blvd. Suite 110 Mt. Arlington, NJ 07856

Bill to (If different than Report to): SAME AS ABOVE
PO#:

Project Name/#:
ALSI Quote #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:

Email? Y michelle.lobsiger@shawgrp.com
Fax? Y No.

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Benzene	Enter Number of Containers Per Analysis												
1	PLCE113910	PEDLAB BAG C	11/30/10	1015	G	A	1													
2		Carbon Effluent																		
3																				
4																				
5																				
6																				
7																				
8																				

***Container Type: TB
***Container Size: —
Preservative: —

ANALYSES/METHOD REQUESTED

Cooler Temp: 14°C
Therm. ID: 1003327724
No. of Coolers:
Notes:

	Y	N	Y	N	N	N
Circle appropriate Y or N.	Y	N	Y	Y	N	N
Correct containers?		N				
Correct sample volume?		N				
Correct preservation?		N				
Headspace/Volatiles?						
COC/Labels completed properly?						
Container in good condition?						
Custody seals Present?	Y					
(If present) Seals Intact?	Y					
Received on ice?						

SAMPLED BY (Please Print): Terence McHugh
LOGGED BY (signature): DATE 11/30/10 TIME 1233
REVIEWED BY (signature): DATE 12-1-10 TIME 1127

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	11/30/10	1200	2		
3			4	11/30/10	1015
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
SDWA Forms? yes / yes / yes / yes
State Samples Collected In? MD / NJ / NY / PA / Other
Enter PWSID No.
DOD Criteria Required?

ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

Rev 6/07

ANALYTICAL LABORATORY SERVICES, INC.
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430
www.analyticallab.com
NELAP Accredited PA 22-293 NJ PA010
ACCREDITED IN ACCORDANCE WITH

Report ID: 98781104

Process Control Sample

Collected

December 13, 2010

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Certificate of Analysis

Project Name:	BENZENE IN TEDLAR BAG	Workorder:	9880470
Purchase Order:	454617	Workorder ID:	PCCE 121310

Mr. Terence McHugh
Shaw E & I Inc.-Mt Arlington-NJ
111 Howard Blvd., Suite 110
Mount Arlington, NJ 07856

December 28, 2010

Dear Mr. McHugh,

Enclosed are the analytical results for samples received by the laboratory on Tuesday, December 14, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Denise Brooks (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder 9880470 PCCE 121310

Discard Date: 01/11/2011

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9880470001	PCCE 121310	Air	12/13/10 11:30	12/14/10 08:30	Terence McHugh

Workorder Comments:

Notes

-- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder 9880470 PCCE 121310

Lab ID: 9880470001
Sample ID: PCCE 121310

Date Collected: 12/13/2010 11:30
Date Received: 12/14/2010 08:30

Matrix: Air

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Benzene	0.50 U	mg/m3		0.50	0.12	SW846 8260B			12/24/10 01:06	DJB	A
Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	79.7	%		62-133		SW846 8260B			12/24/10 01:06	DJB	A
4-Bromofluorobenzene (S)	86.3	%		79-114		SW846 8260B			12/24/10 01:06	DJB	A
Dibromofluoromethane (S)	78.3	%		78-116		SW846 8260B			12/24/10 01:06	DJB	A
Toluene-d8 (S)	84.1	%		76-127		SW846 8260B			12/24/10 01:06	DJB	A

Sample Comments:

Anna G Milliken
Laboratory Manager

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/SAMPLER. INSTRUCTIONS ON THE BACK.

Page ___ of ___
Courier:
Tracking #:

4980470

Co. Name: Sitton ETF
Contact: Michelle Lofsis-er
Phone: 973 770-5313
Address: 111 Howard Blvd. Suite 110 Mt Arlington NJ 07856

Bill to: Same
PO#:

Project Name#:
ALSI Quote #:
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:
Email? [ ] Y
Fax? [ ] Y No:

| Sample Description/Location (as it will appear on the lab report) | COC Comments | Sample Date | Military Time | *G or C | **Matrix | Benzene (GC/FID) | | |

SECTION 4

6TH Quarter Groundwater Concentrations Table

6th Quarter Groundwater Concentrations Map

Historical Groundwater Concentrations Tables

6th Quarter Groundwater Sampling Analytical Data

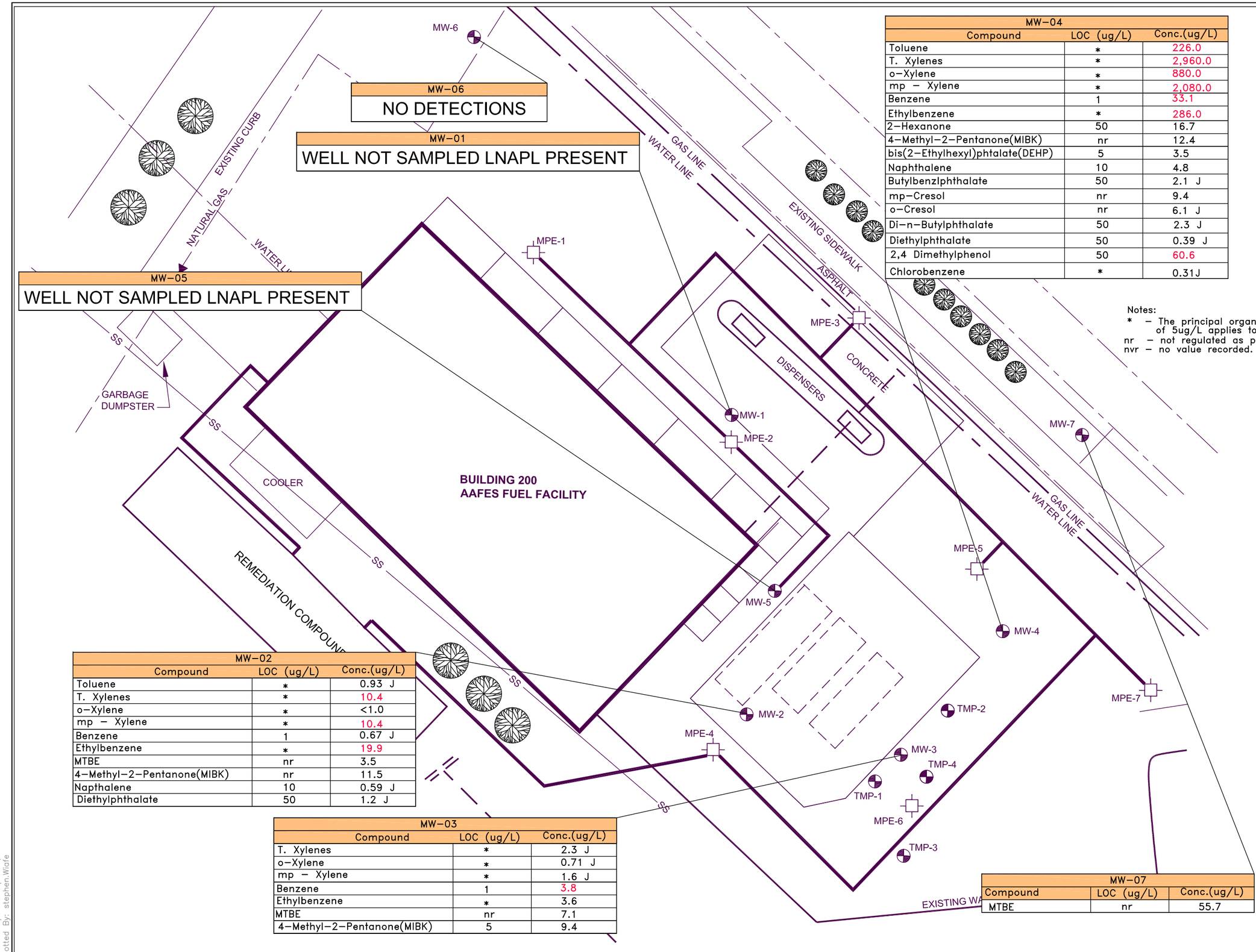
FORT HAMILTON GROUNDWATER CONCENTRATIONS

(Detections)

Monitoring Well	GW Standards or Guidance		MW01	MW02	MW03	MW04	MW05	MW06	MW07	Trip Blank
Sample ID / CAS Number	TOGS 1.1.1 Values	6 NYCRR Values	MW1 (ug/l)	FH-120610-NS-MW2 (ug/l)	FH-120610-NS-MW3 (ug/l)	FH-120610-NS-MW4 (ug/l)	MW5 (ug/l)	FH-120610-NS-MW6 (ug/l)	FH-120610-NS-MW7 (ug/l)	FH-120610-NS-TB (ug/l)
Toluene (108-88-3)	*	*	W	0.93 J		226.0	W			
Acetone (67-64-1)	50 ug/l	nvr	E				E			
Chlolroform (67-66-3)	7 ug/l	7 ug/l	L				L	N		
Methylene Chloride (75-09-2)	*	*	L				L	O		0.56 J
cis-1,2-dichloroethene (156-59-2)	5 ug/l	5 ug/l								
Tetrachloroethene (127-18-4)	*	*	N				N	D		
1,1,2-trichloroethane (79-00-5)	1 ug/l	1 ug/l	O				O	E		
T. Xylenes (95-47-6, 108-38-3, 106-42-3)	*	*	T	10.4	2.3 J	2960.0	T	T		
o-Xylene (95-47-6)	*	*		<1.0	0.71 J	880.0		E		
mp - Xylene (108-38-3) (106-42-3)	*	*	S	10.4	1.6 J	2080.0	S	C		
Carbon Disulfide (75-15-0)	nr	60	A				A	T		
2-Butanone (78-93-3)	50 ug/l	nvr	M				M	I		
Benzene (71-43-2)	1 ug/l	1 ug/l	P	0.67 J	3.8	33.1	P	O		
Ethylbenzene (100-41-4)	*	*	L	19.9	3.6	286.0	L	N		
2- Hexanone (591-78-6)	50 ug/l	nvr	E			16.7	E	S		
Methyl t-Butyl Ether (MTBE) (1634-04-4)	nr	nvr	D	3.5	7.1		D		55.7	
4-Methyl-2-Pentanone (MIBK) (108-10-1)	nr	nvr		11.5	9.4	12.4				
bis(2-Ethylhexyl)phtalate (DEHP) (117-81-7)	5 ug/l	5 ug/l	L			3.5	L			
2-Methylnaphthalene (91-57-6)	nvr	nvr	N				N			
Naphthalene (91-20-3)	10 ug/l	nvr	A	0.59 J		4.8	A			
Butylbenzlphthalate (85-68-7)	50 ug/l	nvr	P			2.1 J	P			
mp-Cresol (108-39-4) (106-44-5)	nr	nvr	L			9.4	L			
o-Cresol (95-48-7)	nr	nvr				6.1 J				
Di-n-Octylphthalate (117-84-0)	50	nvr	P				P			
Di-n-Butylphthalate (84-74-2)	50 ug/l	nvr	R			2.3 J	R			
1,2 Dibromoethane (106-93-4)	6*10-3	6*10-3	E				E			
Styrene (100-42-5)	*	5 ug/l	S				S			
2,4 Dichlorophenol (102-83-2)	*	*	E				E			
Diethylphthalate (84-66-2)	50 ug/l	nvr	N	1.2 J		0.39 J	N			
2,4 Dimethylphenol (105-67-9)	50 ug/l	*	T			60.6	T			
Fluorine (86-73-7)	50 ug/l	nvr								
Chlorobenzene (108-90-7)	*	*				0.31 J				
Nitrobenzene (98-95-3)	0.4 ug/l	0.4 ug/l								
Phenol (108-95-2)	*	*								
Phenanthrene (85-01-8)	50 ug/l	nvr								

*** The principal organic contaminant standard for groundwater of 5 ug/l applies to this substance**

nvr - no value recorded **nr - not regulated as per Table 3 of TOGS guidance manual.**



MW-04		
Compound	LOC (ug/L)	Conc.(ug/L)
Toluene	*	226.0
T. Xylenes	*	2,960.0
o-Xylene	*	880.0
mp - Xylene	*	2,080.0
Benzene	1	33.1
Ethylbenzene	*	286.0
2-Hexanone	50	16.7
4-Methyl-2-Pentanone(MIBK)	nr	12.4
bis(2-Ethylhexyl)phtalate(DEHP)	5	3.5
Naphthalene	10	4.8
Butylbenzlphthalate	50	2.1 J
mp-Cresol	nr	9.4
o-Cresol	nr	6.1 J
Di-n-Butylphthalate	50	2.3 J
Diethylphthalate	50	0.39 J
2,4 Dimethylphenol	50	60.6
Chlorobenzene	*	0.31J

MW-02		
Compound	LOC (ug/L)	Conc.(ug/L)
Toluene	*	0.93 J
T. Xylenes	*	10.4
o-Xylene	*	<1.0
mp - Xylene	*	10.4
Benzene	1	0.67 J
Ethylbenzene	*	19.9
MTBE	nr	3.5
4-Methyl-2-Pentanone(MIBK)	nr	11.5
Napthalene	10	0.59 J
Diethylphthalate	50	1.2 J

MW-03		
Compound	LOC (ug/L)	Conc.(ug/L)
T. Xylenes	*	2.3 J
o-Xylene	*	0.71 J
mp - Xylene	*	1.6 J
Benzene	1	3.8
Ethylbenzene	*	3.6
MTBE	nr	7.1
4-Methyl-2-Pentanone(MIBK)	5	9.4

MW-07		
Compound	LOC (ug/L)	Conc.(ug/L)
MTBE	nr	55.7

Legend

- Existing Monitoring L ocation
- MPE Extraction Well Underground Electric
- —SS— Sanitary Sewer Line
- MPE Header Pipe
- Buried Valve
- Underground Storage Tanks

NOTE:

1.) Loc's are derived from TOGS 1.1.1 and 6 NYCRR - New York Quality Standards and Guidance Values.

2.) (Red) - Denotes exceedance of TOGS 1.1.1 or 6 NYCRR clean up Standards.

Notes:
* - The principal organic contaminant standard for groundwater of 5ug/L applies to this substance.
nr - not regulated as per Table 3 of TOGS guidance manual.
nvr - no value recorded.

FIGURE 4

Groundwater Monitoring Wells Map
6 December 2010
AAFES Station, Fort Hamilton-New York

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Shaw Environmental, Inc.

PROJECT NO. 8095-07A
FILE NO. FIGURE 5

File: N:\cad\CAD drawings\USACE\Ft-Hamilton\GW-Figures\2011-GW\Figure-4.dwg
Plot Date/Time: Apr 14, 2011 - 10:35am
Plotted By: stephen.Wiafe

FORT HAMILTON HISTORICAL GROUNDWATER MONITORING DATA (MW02) (Detections)

Monitoring Well	GW Standards or Guidance		11/12/2008	8/18/2009	11/18/2009	3/10/2010	6/28/2010	9/9/2010	12/6/2010
Sample ID / CAS Number	TOGS 1.1.1 Values	6 NYCRR Values	FH-111208-NS-MW02 (ug/l)	FH-081809-NS-MW02 (ug/l)	FH-111809-NS-MW02 (ug/l)	FH-031010-NS-MW2 (ug/l)	FH-062810-NS-MW02 (ug/l)	FH-090910-NS-MW02 (ug/l)	FH-120610-NS-MW02 (ug/l)
Toluene (108-88-3)	*	*	**120.0**	0.96 J				0.55 J	0.93 J
Acetone (67-64-1)	50 ug/l	nvr							
Chlolroform (67-66-3)	7 ug/l	7 ug/l			1.2 J				
Methylene Chloride (75-09-2)	*	*			1.8 J				
cis-1,2-dichloroethene (156-59-2)	5 ug/l	5 ug/l							
Tetrachloroethene (127-18-4)	*	*							
1,1,2-trichloroethane (79-00-5)	1 ug/l	1 ug/l							
T. Xylenes (95-47-6, 108-38-3, 106-42-3)	*	*	**195.0**	**10.4 J**			1.6 J	3.9	**10.4**
o-Xylene (95-47-6)	*	*	**42.3**				0.61 J	<1.0	<1.0
mp - Xylene (108-38-3) (106-42-3)	*	*	**153.0**	**10.4**			0.98 J	3.7	**10.4**
Carbon Disulfide (75-15-0)	nr	60							
2-Butanone (78-93-3)	50 ug/l	nvr							
Benzene (71-43-2)	1 ug/l	1 ug/l	**18.5**					0.54 J	0.67 J
Ethylbenzene (100-41-4)	*	*	**52.4**	**6.0**	3.2 J			**19.1**	**19.9**
2- Hexanone (591-78-6)	50 ug/l	nvr	3.1 J						
Methyl t-Butyl Ether (MTBE) (1634-04-4)	nr	nvr	22.8	1.8 J		0.27		3.1	3.5
4-Methyl-2-Pentanone (MIBK) (108-10-1)	nr	nvr	10.5						11.5
bis(2-Ethylhexyl)phtalate (DEHP) (117-81-7)	5 ug/l	5 ug/l	2.9	0.42 J				3.4	
2-Methylnaphthalene (91-57-6)	nvr	nvr	9.6						
Naphthalene (91-20-3)	10 ug/l	nvr	**28.9**						0.59 J
Butylbenzlphthalate (85-68-7)	50 ug/l	nvr							
mp-Cresol (108-39-4) (106-44-5)	nr	nvr							
o-Cresol (95-48-7)	nr	nvr							
Di-n-Octylphthalate (117-84-0)	50	nvr							
Di-n-Butylphthalate (84-74-2)	50 ug/l	nvr							
1,2 Dibromoethane (106-93-4)	6*10-3	6*10-3							
Styrene (100-42-5)	*	5 ug/l							
2,4 Dichlorophenol (120-83-2)	*	*							
Diethylphthalate (84-66-2)	50 ug/l	nvr							1.2 J
2,4 Dimethylphenol (105-67-9)	50 ug/l	*							
Fluorine (86-73-7)	50 ug/l	nvr							
Chlorobenzene (108-90-7)	*	*							
Nitrobenzene (98-95-3)	0.4 ug/l	0.4 ug/l			**0.98 J**				
Phenol (108-95-2)	*	*							
Phenanthrene (85-01-8)	50 ug/l	nvr							

*** The principal organic contaminant standard for groundwater of 5 ug/l applies to this substance**

nvr - no value recorded **nr - not regulated as per Table 3 of TOGS guidance manual.**

FORT HAMILTON HISTORICAL GROUNDWATER MONITORING DATA (MW03)								(Detections)	
Monitoring Well	GW Standards or Guidance		11/12/2008	8/18/2009	11/18/2009	3/10/2010	6/28/2010	9/9/2010	12/6/2010
Sample ID / CAS Number	TOGS 1.1.1 Values	6 NYCRR Values	FH-111208-NS-MW03 (ug/l)	FH-081809-NS-MW03 (ug/l)	FH-111809-NS-MW03 (ug/l)	FH-031010-NS-MW3 (ug/l)	FH-062810-NS-MW03 (ug/l)	FH-090910-NS-MW03 (ug/l)	FH-120610-NS-MW03 (ug/l)
Toluene (108-88-3)	*	*	1.5	1.0			0.26 J	0.90 J	
Acetone (67-64-1)	50 ug/l	nvr							
Chlolroform (67-66-3)	7 ug/l	7 ug/l							
Methylene Chloride (75-09-2)	*	*			2.3 J				
cis-1,2-dichloroethene (156-59-2)	5 ug/l	5 ug/l							
Tetrachloroethene (127-18-4)	*	*							
1,1,2-trichloroethane (79-00-5)	1 ug/l	1 ug/l							
T. Xylenes (95-47-6, 108-38-3, 106-42-3)	*	*	**8.2**	3.8	**3680.0**	**7.7**		1.7 J	2.3 J
o-Xylene (95-47-6)	*	*			**986.0**	2.8		0.43 J	0.71 J
mp - Xylene (108-38-3) (106-42-3)	*	*	**8.2**	3.8	**2690.0**	4.9		1.2 J	1.6 J
Carbon Disulfide (75-15-0)	nr	60	0.24 J						
2-Butanone (78-93-3)	50 ug/l	nvr	4.8 J	12.6					
Benzene (71-43-2)	1 ug/l	1 ug/l	**15.2**	**99.5**	**53.9**		**4.1**	**7.2**	**3.8**
Ethylbenzene (100-41-4)	*	*	**12.2**	**5.2**	**460.0**		0.29 J	3.0	3.6
2- Hexanone (591-78-6)	50 ug/l	nvr		1.7 J					
Methyl t-Butyl Ether (MTBE) (1634-04-4)	nr	nvr	30.1	13.7	74.8		7.60	9.3	7.1
4-Methyl-2-Pentanone (MIBK) (108-10-1)	nr	nvr	4.3 J	2.7 J					9.4
bis(2-Ethylhexyl)phtalate (DEHP) (117-81-7)	5 ug/l	5 ug/l	0.43 J		4.1			3.1	
2-Methylnaphthalene (91-57-6)	nvr	nvr			19.4				
Naphthalene (91-20-3)	10 ug/l	nvr	0.73 J		**42.2**				
Butylbenzlphthalate (85-68-7)	50 ug/l	nvr			14.2				
mp-Cresol (108-39-4) (106-44-5)	nr	nvr			61.2				
o-Cresol (95-48-7)	nr	nvr			13.6				
Di-n-Octylphthalate (117-84-0)	50	nvr							
Di-n-Butylphthalate (84-74-2)	50 ug/l	nvr			0.71 J				
1,2 Dibromoethane (106-93-4)	6*10-3	6*10-3							
Styrene (100-42-5)	*	5 ug/l							
2,4 Dichlorophenol (120-83-2)	*	*							
Diethylphthalate (84-66-2)	50 ug/l	nvr							
2,4 Dimethylphenol (105-67-9)	50 ug/l	*			**91.6**				
Flourine (86-73-7)	50 ug/l	nvr							
Chlorobenzene (108-90-7)	*	*							
Nitrobenzene (98-95-3)	0.4 ug/l	0.4 ug/l							
Phenol (108-95-2)	*	*		2.1 J					
Phenanthrene (85-01-8)	50 ug/l	nvr							

*** The principal organic contaminant standard for groundwater of 5 ug/l applies to this substance**

nvr - no value recorded **nr - not regulated as per Table 3 of TOGS guidance manual.**

FORT HAMILTON HISTORICAL GROUNDWATER MONITORING DATA (MW04) (Detections)

Monitoring Well	GW Standards or Guidance		11/12/2008	11/12/2008	8/18/2009	11/18/2009	3/10/2010	6/28/2010	9/9/2010	9/9/2010	12/6/2010
Sample ID / CAS Number	TOGS 1.1.1 Values	6 NYCRR Values	FH-111208-NS-MW04 (ug/l)	FH-111208-FD-MW04 (ug/l)	FH-081809-NS-MW04 (ug/l)	FH-111809-NS-MW04 (ug/l)	FH-031010-NS-MW4 (ug/l)	FH-062810-NS-MW04 (ug/l)	FH-090910-NS-MW04 (ug/l)	FH-090910-NS-MW04 DUP (ug/l)	FH-120610-NS-MW04 (ug/l)
Toluene (108-88-3)	*	*	2470.0	2480.0	326.0			10.1	154.0	153.0	226.0
Acetone (67-64-1)	50 ug/l	nvr			91.2			74.5			
Chlolroform (67-66-3)	7 ug/l	7 ug/l			2.9 J						
Methylene Chloride (75-09-2)	*	*				2.3 J					
cis-1,2-dichloroethene (156-59-2)	5 ug/l	5 ug/l			2.1 J						
Tetrachloroethene (127-18-4)	*	*									
1,1,2-trichloroethane (79-00-5)	1 ug/l	1 ug/l			3.4 J						
T. Xylenes (95-47-6, 108-38-3, 106-42-3)	*	*	16500.0	16500.0	2020.0	3680.0	286.0	105	2470.0	2560.0	2960.0
o-Xylene (95-47-6)	*	*	4170.0	4020.0	638.0	986.0	78.0	93.8	606.0	636.0	880.0
mp - Xylene (108-38-3) (106-42-3)	*	*	12300.0	12500.0	1380.0	3690.0	208.0	11.5	1870.0	1920.0	2080.0
Carbon Disulfide (75-15-0)	nr	60									
2-Butanone (78-93-3)	50 ug/l	nvr	28.1					22			
Benzene (71-43-2)	1 ug/l	1 ug/l	373.0	274.0	33.8	53.9	1.4	3.2	26.7	26.8	33.1
Ethylbenzene (100-41-4)	*	*	2180.0	2230.0	576.0	460.0	44.0	10.5	278.0	292.0	286.0
2- Hexanone (591-78-6)	50 ug/l	nvr	25.3	21.6			1.4 J				16.7
Methyl t-Butyl Ether (MTBE) (1634-04-4)	nr	nvr	417.0	346.0	65.0	74.8			12.7		
4-Methyl-2-Pentanone (MIBK) (108-10-1)	nr	nvr								13.0	12.4
bis(2-Ethylhexyl)phtalate (DEHP) (117-81-7)	5 ug/l	5 ug/l	3.7	3.7	8.5	4.1	4.7		4.1	4.1	3.5
2-Methylnaphthalene (91-57-6)	nvr	nvr	104.0	101.0	70.0	19.4	1.0 J	3.2	16.7	9.2	
Naphthalene (91-20-3)	10 ug/l	nvr	257.0	265.0	85.9	42.2	3.4	6.5	33.7	24.8	4.8
Butylbenzlphthalate (85-68-7)	50 ug/l	nvr	4.9	4.1	24.2	14.2				1.1 J	2.1 J
mp-Cresol (108-39-4) (106-44-5)	nr	nvr	14.7		10.5	61.2					9.4
o-Cresol (95-48-7)	nr	nvr	9.6	10.0	8.2	13.6					6.1 J
Di-n-Octylphthalate (117-84-0)	50 ug/l	nvr									
Di-n-Butylphthalate (84-74-2)	50 ug/l	nvr	0.60 J	0.56 J	0.55 J	0.71 J					2.3 J
1,2 Dibromoethane (106-93-4)	6*10-3	6*10-3									
Styrene (100-42-5)	*	5 ug/l									
2,4 Dichlorophenol (120-83-2)	*	*									
Diethylphthalate (84-66-2)	50 ug/l	nvr	1.1 J	0.95 J							0.39 J
2,4 Dimethylphenol (105-67-9)	50 ug/l	*	93.7	98.8	27.9	91.6			11.1	13.7	60.6
Fluorine (86-73-7)	50 ug/l	nvr	0.62 J	0.76 J	0.54 J						
Chlorobenzene (108-90-7)	*	*									0.31 J
Nitrobenzene (98-95-3)	0.4 ug/l	0.4 ug/l									
Phenol (108-95-2)	*	*									
Phenanthrene (85-01-8)	50 ug/l	nvr	0.66 J	0.59 J	0.46 J						

*** The principal organic contaminant standard for groundwater of 5 ug/l applies to this substance**

nvr - no value recorded **nr - not regulated as per Table 3 of TOGS guidance manual.**

FORT HAMILTON HISTORICAL GROUNDWATER MONITORING DATA (MW05)						(Detections)
Monitoring Well	GW Standards or Guidance		3/10/2010	6/28/2010	9/9/2010	12/6/2010
Sample ID / CAS Number	TOGS 1.1.1 Values	6 NYCRR Values	FH-031010-NS-MW5 (ug/l)	FH-062810-NS-MW05 (ug/l)	FH-090910-NS-MW05 (ug/l)	MW05 (ug/l)
Toluene (108-88-3)	*	*	261.0	7820.0	9370.0	W
Acetone (67-64-1)	50 ug/l	nvr			728.0	E
Chlolroform (67-66-3)	7 ug/l	7 ug/l				L
Methylene Chloride (75-09-2)	*	*				L
cis-1,2-dichloroethene (156-59-2)	5 ug/l	5 ug/l				
Tetrachloroethene (127-18-4)	*	*				N
1,1,2-trichloroethane (79-00-5)	1 ug/l	1 ug/l				O
T. Xylenes (95-47-6, 108-38-3, 106-42-3)	*	*	1210.0	14300.0	15100.0	T
o-Xylene (95-47-6)	*	*	328.0	4050.0	4900.0	
mp - Xylene (108-38-3) (106-42-3)	*	*	885.0	10200.0	102000.0	S
Carbon Disulfide (75-15-0)	nr	60				A
2-Butanone (78-93-3)	50 ug/l	nvr	11.0			M
Benzene (71-43-2)	1 ug/l	1 ug/l	4.7	414	800.0	P
Ethylbenzene (100-41-4)	*	*	117.0	1680.0	842.0	L
2- Hexanone (591-78-6)	50 ug/l	nvr			371.0	E
Methyl t-Butyl Ether (MTBE) (1634-04-4)	nr	nvr		87.8	135.0	D
4-Methyl-2-Pentanone (MIBK) (108-10-1)	nr	nvr			27.3	
bis(2-Ethylhexyl)phtalate (DEHP) (117-81-7)	5 ug/l	5 ug/l		0.96 J	2.8 J	L
2-Methylnaphthalene (91-57-6)	nvr	nvr	1.3 J	63.4	95.3	N
Naphthalene (91-20-3)	10 ug/l	nvr	8.2	218	305.0	A
Butylbenzlphthalate (85-68-7)	50 ug/l	nvr				P
mp-Cresol (108-39-4) (106-44-5)	nr	nvr		44.8	139.0	L
o-Cresol (95-48-7)	nr	nvr	4.8 J	40.7	93.4	
Di-n-Octylphthalate (117-84-0)	50 ug/l	nvr		0.85 J		P
Di-n-Butylphthalate (84-74-2)	50 ug/l	nvr				R
1.2 Dibromoethane (106-93-4)	6*10 -3	6*10 -3			1.7 J	E
Styrene (100-42-5)	*	5 ug/l			4.7 J	S
2,4 Dichlorophenol (120-83-2)	*	*			1.7 J	E
Diethylphthalate (84-66-2)	50 ug/l	nvr				N
2,4 Dimethylphenol (105-67-9)	50 ug/l	*			4130.0	T
Fluorine (86-73-7)	50 ug/l	nvr				
Nitrobenzene (98-95-3)	0.4 ug/l	0.4 ug/l				
Phenol (108-95-2)	*	*			7.8	
Phenanthrene (85-01-8)	50 ug/l	nvr			0.93 J	

*** The principal organic contaminant standard for groundwater of 5 ug/l applies to this substance**
nvr - no value recorded **nr - not regulated as per Table 3 of TOGS guidance manual.**

FORT HAMILTON HISTORICAL GROUNDWATER MONITORING DATA (MW06)

(Detections)

Monitoring Well	GW Standards or Guidance		11/12/2008	8/18/2009	11/18/2009	3/10/2010	6/28/2010	9/9/2010	12/6/2010
Sample ID / CAS Number	TOGS 1.1.1 Values	6 NYCRR Values	FH-111208-NS-MW06 (ug/l)	FH-081809-NS-MW06 (ug/l)	FH-111809-NS-MW06 (ug/l)	FH-031010-NS-MW6 (ug/l)	FH-062810-NS-MW06 (ug/l)	FH-062810-NS-MW06 (ug/l)	FH-120610-NS-MW06 (ug/l)
Toluene (108-88-3)	*	*	0.37 J						
Acetone (67-64-1)	50 ug/l	nvr							
Chlolroform (67-66-3)	7 ug/l	7 ug/l		N	N	N	N	N	N
Methylene Chloride (75-09-2)	*	*		O	O	O	O	O	O
cis-1,2-dichloroethene (156-59-2)	5 ug/l	5 ug/l							
Tetrachloroethene (127-18-4)	*	*		D	D	D	D	D	D
1,1,2-trichloroethane (79-00-5)	1 ug/l	1 ug/l		E	E	E	E	E	E
T. Xylenes (95-47-6, 108-38-3, 106-42-3)	*	*	1.5 J	T	T	T	T	T	T
o-Xylene (95-47-6)	*	*	0.54 J	E	E	E	E	E	E
mp - Xylene (108-38-3) (106-42-3)	*	*	1.0 J	C	C	C	C	C	C
Carbon Disulfide (75-15-0)	nr	60		T	T	T	T	T	T
2-Butanone (78-93-3)	50 ug/l	nvr		I	I	I	I	I	I
Benzene (71-43-2)	1 ug/l	1 ug/l		O	O	O	O	O	O
Ethylbenzene (100-41-4)	*	*		N	N	N	N	N	N
2- Hexanone (591-78-6)	50 ug/l	nvr		S	S	S	S	S	S
Methyl t-Butyl Ether (MTBE) (1634-04-4)	nr	nvr							
4-Methyl-2-Pentanone (MIBK) (108-10-1)	nr	nvr							
bis(2-Ethylhexyl)phtalate (DEHP) (117-81-7)	5 ug/l	5 ug/l							
2-Methylnaphthalene (91-57-6)	nvr	nvr							
Naphthalene (91-20-3)	10 ug/l	nvr							
Butylbenzlphthalate (85-68-7)	50 ug/l	nvr							
mp-Cresol (108-39-4) (106-44-5)	nr	nvr							
o-Cresol (95-48-7)	nr	nvr							
Di-n-Octylphthalate (117-84-0)	50	nvr							
Di-n-Butylphthalate (84-74-2)	50 ug/l	nvr							
1,2 Dibromoethane (106-93-4)	6*10-3	6*10-3							
Styrene (100-42-5)	*	5 ug/l							
2,4 Dichlorophenol (120-83-2)	*	*							
Diethylphthalate (84-66-2)	50 ug/l	nvr							
2,4 Dimethylphenol (105-67-9)	50 ug/l	*							
Fluorine (86-73-7)	50 ug/l	nvr							
Nitrobenzene (98-95-3)	0.4 ug/l	0.4 ug/l							
Phenol (108-95-2)	*	*							
Phenanthrene (85-01-8)	50 ug/l	nvr							

* The principal organic contaminant standard for groundwater of 5 ug/l applies to this substance

nvr - no value recorded nr - not regulated as per Table 3 of TOGS guidance manual.

FORT HAMILTON HISTORICAL GROUNDWATER MONITORING DATA (MW07)

(Detections)

Monitoring Well	GW Standards or Guidance		11/12/2008	8/18/2009	11/18/2009	3/10/2010	6/28/2010	9/9/2010	12/6/2010
Sample ID / CAS Number	TOGS 1.1.1 Values	6 NYCRR Values	FH-111208-NS-MW07 (ug/l)	FH-081809-NS-MW07 (ug/l)	FH-111809-NS-MW07 (ug/l)	FH-031010-NS-MW7 (ug/l)	FH-062810-NS-MW07 (ug/l)	FH-090910-NS-MW07 (ug/l)	FH-120610-NS-MW07 (ug/l)
Toluene (108-88-3)	*	*	**9.4**						
Acetone (67-64-1)	50 ug/l	nvr							
Chlolroform (67-66-3)	7 ug/l	7 ug/l							
Methylene Chloride (75-09-2)	*	*							
cis-1,2-dichloroethene (156-59-2)	5 ug/l	5 ug/l							
Tetrachloroethene (127-18-4)	*	*							
1,1,2-trichloroethane (79-00-5)	1 ug/l	1 ug/l							
T. Xylenes (95-47-6, 108-38-3, 106-42-3)	*	*	**92.3**						
o-Xylene (95-47-6)	*	*	**26.1**						
mp - Xylene (108-38-3) (106-42-3)	*	*	**66.2**						
Carbon Disulfide (75-15-0)	nr	60	0.18 J						
2-Butanone (78-93-3)	50 ug/l	nvr							
Benzene (71-43-2)	1 ug/l	1 ug/l	0.92 J	0.49 J					
Ethylbenzene (100-41-4)	*	*	**11.6**						
2- Hexanone (591-78-6)	50 ug/l	nvr							
Methyl t-Butyl Ether (MTBE) (1634-04-4)	nr	nvr	87.8	67.5	74.4	14.8	18.8	45.4	55.7
4-Methyl-2-Pentanone (MIBK) (108-10-1)	nr	nvr							
bis(2-Ethylhexyl)phtalate (DEHP) (117-81-7)	5 ug/l	5 ug/l						3.2	
2-Methylnaphthalene (91-57-6)	nvr	nvr	0.99J						
Naphthalene (91-20-3)	10 ug/l	nvr	1.9						
Butylbenzlphthalate (85-68-7)	50 ug/l	nvr	0.41J						
mp-Cresol (108-39-4) (106-44-5)	nr	nvr							
o-Cresol (95-48-7)	nr	nvr							
Di-n-Octylphthalate (117-84-0)	50	nvr							
Di-n-Butylphthalate (84-74-2)	50 ug/l	nvr							
1,2 Dibromoethane (106-93-4)	6*10-3	6*10-3							
Styrene (100-42-5)	*	5 ug/l							
2,4 Dichlorophenol (120-83-2)	*	*							
Diethylphthalate (84-66-2)	50 ug/l	nvr							
2,4 Dimethylphenol (105-67-9)	50 ug/l	*							
Fluorine (86-73-7)	50 ug/l	nvr							
Nitrobenzene (98-95-3)	0.4 ug/l	0.4 ug/l							
Phenol (108-95-2)	*	*							
Phenanthrene (85-01-8)	50 ug/l	nvr							

*** The principal organic contaminant standard for groundwater of 5 ug/l applies to this substance**

nvr - no value recorded **nr - not regulated as per Table 3 of TOGS guidance manual.**

Quarterly Groundwater Samples

Collected on December 6, 2010

Analytical Data

Rec 12/2010

ANALYTICAL
LABORATORY SERVICES, INC.
Environmental ✦ Industrial Hygiene ✦ Field Services
www.analyticallab.com

PROJECT TITLE: Shaw E & I
FORT HAMILTON-NY PROJECT

Data Deliverable Group
SFM-023

CLP-Like
DATA PACKAGE

SAMPLES COLLECTED
December 6, 2010

34 Dogwood Lane ✦ Middletown, PA 17057
TEL: 717-944-5541 ✦ FAX: 717-944-1430 ✦ 1-800-794-7709

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Chain of Custody Records

Report ID: 9879428

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY, REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 1
Courier: UPS
Tracking #: 1Z T29 N21 1000 005
98794 28

Co. Name: Stantec
Contact (Report to): Michelle Lobsigar
Phone: (973) 770-5313
Address: 111 Howard Blvd. Suite 110 Mt. Arlington, NJ 07856

Bill to (if different than Report to): PO#:

Project Name/#: ALSI Quote #:

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:

Email? [ ] Y
Fax? [ ] Y No.:

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOC 8260	SVOCs 8270										
							Container Type	G	G									
							Container Size	40ml	1L									
							Preservative	HCl	none									
1	FH-120610-NS-MW06		12/6/10	0740	G	GW	2	2										
2	FH-120610-NS-MW07		12/6/10	0910	G	GW	2	2										
3	FH-120610-NS-MW02		12/6/10	1010	G	GW	2	2										
4	FH-120610-NS-MW03		12/6/10	1315	G	GW	2	2										
5	FH-120610-NS-MW04		12/6/10	1515	G	GW	2	2										
6	FH-120610-TB		12/6/10	-	G	GW	2											
7																		
8																		

Enter Number of Containers Per Analysis

Cooler Temp: 2°C
Therm. ID: 1013522224
No. of Coolers:
Notes:

	Y	N	N	N	Y
Correct containers?	Y	N	N	N	Y
Correct sample volume?	Y	N	N	N	Y
Correct preservation?	Y	N	N	N	Y
Headspace/Volatiles?	Y	N	N	N	Y
Circle appropriate Y or N.					
Custody seals Present?	Y	Y	Y	Y	Y
(If present) Seals Intact?	Y	Y	Y	Y	Y
Received on Ice?	Y	Y	Y	Y	Y
COC/Labels complete/accurate?	Y	Y	Y	Y	Y
Container in good condition?	Y	Y	Y	Y	Y

SAMPLED BY (Please Print): Terence Mattingly Jr.
LOGGED BY (signature): 12/8/10 1734
REVIEWED BY (signature): 12/8/10 1530

Relinquished by / Company Name	Date	Time	Received By / Company Name	Date	Time
1	12/7/10	1130	2 ALSI	12/8/10	0840
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] NJ-Reduced [ ] NJ-Full [ ] other
EDDs Required? [ ] If yes, format type:
SDWA Forms? yes / yes / yes / yes
State Samples Collected In? MD / NJ / NY / PA / Other
Enter PWSID No.
DOD Criteria Required?

ALSI FIELD SERVICES: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass; PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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ALSI Laboratory Analysis Reports

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Certificate of Analysis

Project Name:	FORT HAMILTON-NY PROJECT	Workorder:	9879428
Purchase Order:	454617	Workorder ID:	SFM023|FT HAMILTON-NY PROJECT

Mr. Terence McHugh
Shaw E & I Inc.-Mt Arlington-NJ
111 Howard Blvd., Suite 110
Mount Arlington, NJ 07856

December 17, 2010

Dear Mr. McHugh,

Enclosed are the analytical results for samples received by the laboratory on Wednesday, December 08, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Denise Brooks (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

C(;. Michelle Lobsiger

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken
Laboratory Manager

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SAMPLE SUMMARY

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT — Discard Date: 12/31/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9879428001	FH-120610-NS-MW06	Ground Water	12/6/10 07:40	12/8/10 08:40	Terence McHugh
9879428002	FH-120610-NS-MW07	Ground Water	12/6/10 09:10	12/8/10 08:40	Terence McHugh
9879428003	FH-120610-NS-MW02	Ground Water	12/6/10 10:10	12/8/10 08:40	Terence McHugh
9879428004	FH-120610-NS-MW03	Ground Water	12/6/10 13:15	12/8/10 08:40	Terence McHugh
9879428005	FH-120610-NS-MW04	Ground Water	12/6/10 15:15	12/8/10 08:40	Terence McHugh
9879428006	FH-120610-TB	Ground Water	12/6/10 00:00	12/8/10 08:40	Terence McHugh

Workorder Comments:

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: **9879428001** Date Collected: 12/6/2010 07:40 Matrix: Ground Water

Sample ID: **FH-120610-NS-MW06** Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	10.0 U	ug/L		10.0	3.1	SW846 8260B			12/15/10 22:45	DJB	B
Benzene	1.0 U	ug/L		1.0	0.23	SW846 8260B			12/15/10 22:45	DJB	B
Bromochloromethane	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/15/10 22:45	DJB	B
Bromodichloromethane	1.0 U	ug/L		1.0	0.27	SW846 8260B			12/15/10 22:45	DJB	B
Bromoform	1.0 U	ug/L		1.0	0.40	SW846 8260B			12/15/10 22:45	DJB	B
Bromomethane	1.0 U	ug/L		1.0	0.39	SW846 8260B			12/15/10 22:45	DJB	B
2-Butanone	10.0 U	ug/L		10.0	1.8	SW846 8260B			12/15/10 22:45	DJB	B
Carbon Disulfide	1.0 U	ug/L		1.0	0.23	SW846 8260B			12/15/10 22:45	DJB	B
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/15/10 22:45	DJB	B
Chlorobenzene	1.0 U	ug/L		1.0	0.19	SW846 8260B			12/15/10 22:45	DJB	B
Chlorodibromomethane	1.0 U	ug/L		1.0	0.45	SW846 8260B			12/15/10 22:45	DJB	B
Chloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/15/10 22:45	DJB	B
Ch[illegible]rm	1.0 U	ug/L		1.0	0.21	SW846 8260B			12/15/10 22:45	DJB	B
C[illegible]nethane	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/15/10 22:45	DJB	B
1,[illegible]oromo-3-chloropropane	7.0 U	ug/L		7.0	1.5	SW846 8260B			12/15/10 22:45	DJB	B
1,2-Dibromoethane	1.0 U	ug/L		1.0	0.28	SW846 8260B			12/15/10 22:45	DJB	B
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.28	SW846 8260B			12/15/10 22:45	DJB	B
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/15/10 22:45	DJB	B
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.29	SW846 8260B			12/15/10 22:45	DJB	B
cis-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/15/10 22:45	DJB	B
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.26	SW846 8260B			12/15/10 22:45	DJB	B
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.24	SW846 8260B			12/15/10 22:45	DJB	B
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/15/10 22:45	DJB	B
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.29	SW846 8260B			12/15/10 22:45	DJB	B
Ethylbenzene	1.0 U	ug/L		1.0	0.34	SW846 8260B			12/15/10 22:45	DJB	B
2-Hexanone	5.0 U	ug/L		5.0	1.3	SW846 8260B			12/15/10 22:45	DJB	B
Methyl t-Butyl Ether	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/15/10 22:45	DJB	B
4-Methyl-2-Pentanone(MIBK)	5.0 U	ug/L		5.0	1.5	SW846 8260B			12/15/10 22:45	DJB	B
Methylene Chloride	1.0 U	ug/L		1.0	0.45	SW846 8260B			12/15/10 22:45	DJB	B
Styrene	1.0 U	ug/L		1.0	0.24	SW846 8260B			12/15/10 22:45	DJB	B
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.34	SW846 8260B			12/15/10 22:45	DJB	B
Tetrachloroethene	1.0 U	ug/L		1.0	0.35	SW846 8260B			12/15/10 22:45	DJB	B
Toluene	1.0 U	ug/L		1.0	0.23	SW846 8260B			12/15/10 22:45	DJB	B
Total Xylenes	3.0 U	ug/L		3.0	0.66	SW846 8260B			12/15/10 22:45	DJB	B
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.22	SW846 8260B			12/15/10 22:45	DJB	B
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/15/10 22:45	DJB	B
Trichloroethene	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/15/10 22:45	DJB	B
Vinyl Chloride	1.0 U	ug/L		1.0	0.30	SW846 8260B			12/15/10 22:45	DJB	B
o-Xylene	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/15/10 22:45	DJB	B
mp[illegible]ne	2.0 U	ug/L		2.0	0.52	SW846 8260B			12/15/10 22:45	DJB	B

Library Search - Volatiles

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*

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ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: **9879428001** Date Collected: 12/6/2010 07:40 Matrix: Ground Water

Sample ID: **FH-120610-NS-MW06** Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	101	%		62-133		SW846 8260B			12/15/10 22:45	DJB	B
4-Bromofluorobenzene (S)	89.9	%		79-114		SW846 8260B			12/15/10 22:45	DJB	B
Dibromofluoromethane (S)	98.1	%		78-116		SW846 8260B			12/15/10 22:45	DJB	B
Toluene-d8 (S)	112	%		76-127		SW846 8260B			12/15/10 22:45	DJB	B
SEMIVOLATILES											
Acenaphthene	1.4 U	ug/L		1.4	0.49	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Acenaphthylene	1.4 U	ug/L		1.4	0.32	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Anthracene	1.4 U	ug/L		1.4	0.42	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Benzo(a)anthracene	1.4 U	ug/L		1.4	0.30	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Benzo(a)pyrene	1.4 U	ug/L		1.4	0.31	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Benzo(b)fluoranthene	1.4 U	ug/L		1.4	0.32	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Benzo(g,h,i)perylene	1.4 U	ug/L		1.4	0.41	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Ben)fluoranthene	1.4 U	ug/L		1.4	0.36	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
4-' ophenyl-phenylether	2.9 U	ug/L		2.9	0.37	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Bu, enzylphthalate	2.9 U	ug/L		2.9	0.45	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Carbazole	2.9 U	ug/L		2.9	0.29	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
4-Chloro-3-methylphenol	7.6 U	ug/L		7.6	0.90	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
4-Chloroaniline	2.9 U	ug/L		2.9	0.86	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
bis(2-Chloroethoxy)methane	2.9 U	ug/L		2.9	0.76	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
bis(2-Chloroethyl)ether	2.9 U	ug/L		2.9	0.48	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
bis(2-Chloroisopropyl)ether	2.9 U	ug/L		2.9	0.59	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
2-Chloronaphthalene	2.9 U	ug/L		2.9	0.37	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
2-Chlorophenol	7.6 U	ug/L		7.6	0.80	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
4-Chlorophenyl-phenylether	2.9 U	ug/L		2.9	0.51	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Chrysene	1.4 U	ug/L		1.4	0.31	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
mp-Cresol	7.6 U	ug/L		7.6	0.49	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
o-Cresol	7.6 U	ug/L		7.6	0.47	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Di-n-Butylphthalate	2.9 U	ug/L		2.9	0.42	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Di-n-Octylphthalate	7.6 U	ug/L		7.6	0.53	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Dibenzo(a,h)anthracene	1.9 U	ug/L		1.9	0.90	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Dibenzofuran	2.9 U	ug/L		2.9	0.70	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
1,2-Dichlorobenzene	2.9 U	ug/L		2.9	0.35	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
1,3-Dichlorobenzene	2.9 U	ug/L		2.9	0.45	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
1,4-Dichlorobenzene	2.9 U	ug/L		2.9	0.60	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
3,3-Dichlorobenzidine	15.2 U	ug/L		15.2	2.6	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
2,4-Dichlorophenol	7.6 U	ug/L		7.6	0.58	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Diethylphthalate	7.6 U	ug/L		7.6	0.31	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
2,4-Dimethylphenol	7.6 U	ug/L		7.6	2.0	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Dimethylphthalate	7.6 U	ug/L		7.6	0.51	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
2,4-Dinitrophenol	15.2 U	ug/L		15.2	3.4	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
2,4-D trotoluene	2.9 U	ug/L		2.9	0.37	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
2,6 rotoluene	2.9 U	ug/L		2.9	0.33	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
bi thylhexyl)phthalate	2.9 U	ug/L		2.9	0.55	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Fluoranthene	1.4 U	ug/L		1.4	0.33	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Fluorene	1.4 U	ug/L		1.4	0.38	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Hexachlorobenzene	2.9 U	ug/L		2.9	0.51	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1

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ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: **9879428001** Date Collected: 12/6/2010 07:40 Matrix: Ground Water

Sample ID: **FH-120610-NS-MW06** Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobutadiene	2.9 U	ug/L		2.9	0.48	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Hexachlorocyclopentadiene	7.6 U	ug/L		7.6	1.1	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Hexachloroethane	2.9 U	ug/L		2.9	0.83	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Indeno(1,2,3-cd)pyrene	1.4 U	ug/L		1.4	0.25	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Isophorone	2.9 U	ug/L		2.9	0.58	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
2-Methyl-4,6-dinitrophenol	7.6 U	ug/L		7.6	2.3	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
2-Methylnaphthalene	1.9 U	ug/L		1.9	0.90	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Naphthalene	1.4 U	ug/L		1.4	0.44	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
2-Nitroaniline	2.9 U	ug/L		2.9	0.33	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
3-Nitroaniline	2.9 U	ug/L		2.9	1.0	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
4-Nitroaniline	2.9 U	ug/L		2.9	0.43	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Nitrobenzene	2.9 U	ug/L		2.9	0.66	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
2-Nitrophenol	7.6 U	ug/L		7.6	1.4	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
4-Ni[illegible]phenol	7.6 U	ug/L		7.6	2.9	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
N-N[illegible]o-di-n-propylamine	2.9 U	ug/L		2.9	0.53	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
N-[illegible]sodiphenylamine	2.9 U	ug/L		2.9	0.79	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Pentachlorophenol	15.2 U	ug/L		15.2	2.5	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Phenanthrene	1.4 U	ug/L		1.4	0.31	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Phenol	7.6 U	ug/L		7.6	0.69	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Pyrene	1.4 U	ug/L		1.4	0.49	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
1,2,4-Trichlorobenzene	2.9 U	ug/L		2.9	0.61	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
2,4,5-Trichlorophenol	7.6 U	ug/L		7.6	1.7	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
2,4,6-Trichlorophenol	7.6 U	ug/L		7.6	0.52	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	93.7	%		40-125	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
2-Fluorobiphenyl (S)	71.4	%		50-110	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
2-Fluorophenol (S)	35.7	%		20-75	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Nitrobenzene-d5 (S)	63.5	%		40-110	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Phenol-d5 (S)	22.1	%		13-49	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1
Terphenyl-d14 (S)	79.9	%		50-122	SW846 8270D	12/13/10	MPP	12/13/10 19:51	CGS	C1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: **9879428002** Date Collected: 12/6/2010 09:10 Matrix: Ground Water

Sample ID: **FH-120610-NS-MW07** Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	10.0 U	ug/L		10.0	3.1	SW846 8260B			12/13/10 22:29	DJB	A
Benzene	1.0 U	ug/L		1.0	0.23	SW846 8260B			12/13/10 22:29	DJB	A
Bromochloromethane	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/13/10 22:29	DJB	A
Bromodichloromethane	1.0 U	ug/L		1.0	0.27	SW846 8260B			12/13/10 22:29	DJB	A
Bromoform	1.0 U	ug/L		1.0	0.40	SW846 8260B			12/13/10 22:29	DJB	A
Bromomethane	1.0 U	ug/L		1.0	0.39	SW846 8260B			12/13/10 22:29	DJB	A
2-Butanone	10.0 U	ug/L		10.0	1.8	SW846 8260B			12/13/10 22:29	DJB	A
Carbon Disulfide	1.0 U	ug/L		1.0	0.23	SW846 8260B			12/13/10 22:29	DJB	A
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/13/10 22:29	DJB	A
Chlorobenzene	1.0 U	ug/L		1.0	0.19	SW846 8260B			12/13/10 22:29	DJB	A
Chlorodibromomethane	1.0 U	ug/L		1.0	0.45	SW846 8260B			12/13/10 22:29	DJB	A
Chloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 22:29	DJB	A
Chl[illegible]rm	1.0 U	ug/L		1.0	0.21	SW846 8260B			12/13/10 22:29	DJB	A
Ch[illegible]ethane	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/13/10 22:29	DJB	A
1,[illegible]romo-3-chloropropane	7.0 U	ug/L		7.0	1.5	SW846 8260B			12/13/10 22:29	DJB	A
1,2-Dibromoethane	1.0 U	ug/L		1.0	0.28	SW846 8260B			12/13/10 22:29	DJB	A
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.28	SW846 8260B			12/13/10 22:29	DJB	A
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/13/10 22:29	DJB	A
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.29	SW846 8260B			12/13/10 22:29	DJB	A
cis-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/13/10 22:29	DJB	A
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.26	SW846 8260B			12/13/10 22:29	DJB	A
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.24	SW846 8260B			12/13/10 22:29	DJB	A
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/13/10 22:29	DJB	A
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.29	SW846 8260B			12/13/10 22:29	DJB	A
Ethylbenzene	1.0 U	ug/L		1.0	0.34	SW846 8260B			12/13/10 22:29	DJB	A
2-Hexanone	5.0 U	ug/L		5.0	1.3	SW846 8260B			12/13/10 22:29	DJB	A
Methyl t-Butyl Ether	55.7	ug/L		1.0	0.33	SW846 8260B			12/13/10 22:29	DJB	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	ug/L		5.0	1.5	SW846 8260B			12/13/10 22:29	DJB	A
Methylene Chloride	1.0 U	ug/L		1.0	0.45	SW846 8260B			12/13/10 22:29	DJB	A
Styrene	1.0 U	ug/L		1.0	0.24	SW846 8260B			12/13/10 22:29	DJB	A
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.34	SW846 8260B			12/13/10 22:29	DJB	A
Tetrachloroethene	1.0 U	ug/L		1.0	0.35	SW846 8260B			12/13/10 22:29	DJB	A
Toluene	1.0 U	ug/L		1.0	0.23	SW846 8260B			12/13/10 22:29	DJB	A
Total Xylenes	3.0 U	ug/L		3.0	0.66	SW846 8260B			12/13/10 22:29	DJB	A
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.22	SW846 8260B			12/13/10 22:29	DJB	A
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 22:29	DJB	A
Trichloroethene	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 22:29	DJB	A
Vinyl Chloride	1.0 U	ug/L		1.0	0.30	SW846 8260B			12/13/10 22:29	DJB	A
o-Xylene	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 22:29	DJB	A
mp[illegible]ne	2.0 U	ug/L		2.0	0.52	SW846 8260B			12/13/10 22:29	DJB	A

Si[illegible]ate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	87.2	%		62-133	SW846 8260B			12/13/10 22:29	DJB	A
Toluene-d8 (S)	88.2	%		76-127	SW846 8260B			12/13/10 22:29	DJB	A
Dibromofluoromethane (S)	85.5	%		78-116	SW846 8260B			12/13/10 22:29	DJB	A

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ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: 9879428002 Date Collected: 12/6/2010 09:10 Matrix: Ground Water

Sample ID: FH-120610-NS-MW07 Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
4-Bromofluorobenzene (S)	81.2	%		79-114		SW846 8260B			12/13/10 22:29	DJB	A
SEMIVOLATILES											
Acenaphthene	1.4 U	ug/L		1.4	0.48	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Acenaphthylene	1.4 U	ug/L		1.4	0.32	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Anthracene	1.4 U	ug/L		1.4	0.42	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Benzo(a)anthracene	1.4 U	ug/L		1.4	0.30	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Benzo(a)pyrene	1.4 U	ug/L		1.4	0.31	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Benzo(b)fluoranthene	1.4 U	ug/L		1.4	0.32	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Benzo(g,h,i)perylene	1.4 U	ug/L		1.4	0.41	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Benzo(k)fluoranthene	1.4 U	ug/L		1.4	0.36	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
4-Bromophenyl-phenylether	2.8 U	ug/L		2.8	0.37	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Butylbenzylphthalate	2.8 U	ug/L		2.8	0.45	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Car[illegible]le	2.8 U	ug/L		2.8	0.28	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
4-[illegible]o-3-methylphenol	7.6 U	ug/L		7.6	0.89	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
4-C[illegible]oroaniline	2.8 U	ug/L		2.8	0.85	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
bis(2-Chloroethoxy)methane	2.8 U	ug/L		2.8	0.76	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
bis(2-Chloroethyl)ether	2.8 U	ug/L		2.8	0.47	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
bis(2-Chloroisopropyl)ether	2.8 U	ug/L		2.8	0.59	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
2-Chloronaphthalene	2.8 U	ug/L		2.8	0.37	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
2-Chlorophenol	7.6 U	ug/L		7.6	0.80	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
4-Chlorophenyl-phenylether	2.8 U	ug/L		2.8	0.51	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Chrysene	1.4 U	ug/L		1.4	0.31	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
mp-Cresol	7.6 U	ug/L		7.6	0.48	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
o-Cresol	7.6 U	ug/L		7.6	0.46	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Di-n-Butylphthalate	2.8 U	ug/L		2.8	0.42	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Di-n-Octylphthalate	7.6 U	ug/L		7.6	0.53	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Dibenzo(a,h)anthracene	1.9 U	ug/L		1.9	0.89	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Dibenzofuran	2.8 U	ug/L		2.8	0.69	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
1,2-Dichlorobenzene	2.8 U	ug/L		2.8	0.35	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
1,3-Dichlorobenzene	2.8 U	ug/L		2.8	0.45	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
1,4-Dichlorobenzene	2.8 U	ug/L		2.8	0.60	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
3,3-Dichlorobenzidine	15.2 U	ug/L		15.2	2.6	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
2,4-Dichlorophenol	7.6 U	ug/L		7.6	0.58	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Diethylphthalate	7.6 U	ug/L		7.6	0.31	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
2,4-Dimethylphenol	7.6 U	ug/L		7.6	2.0	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Dimethylphthalate	7.6 U	ug/L		7.6	0.51	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
2,4-Dinitrophenol	15.2 U	ug/L		15.2	3.4	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
2,4-Dinitrotoluene	2.8 U	ug/L		2.8	0.37	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
2,6-Dinitrotoluene	2.8 U	ug/L		2.8	0.33	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
bis(2-Ethylhexyl)phthalate	2.8 U	ug/L		2.8	0.55	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Flu[illegible]hene	1.4 U	ug/L		1.4	0.33	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Fl[illegible]e	1.4 U	ug/L		1.4	0.38	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
He[illegible]lorobenzene	2.8 U	ug/L		2.8	0.51	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Hexachlorobutadiene	2.8 U	ug/L		2.8	0.47	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Hexachlorocyclopentadiene	7.6 U	ug/L		7.6	1.1	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Hexachloroethane	2.8 U	ug/L		2.8	0.82	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1

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ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: 9879428002 Date Collected: 12/6/2010 09:10 Matrix: Ground Water
Sample ID: FH-120610-NS-MW07 Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Indeno(1,2,3-cd)pyrene	1.4 U	ug/L		1.4	0.25	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Isophorone	2.8 U	ug/L		2.8	0.58	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
2-Methyl-4,6-dinitrophenol	7.6 U	ug/L		7.6	2.3	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
2-Methylnaphthalene	1.9 U	ug/L		1.9	0.90	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Naphthalene	1.4 U	ug/L		1.4	0.44	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
2-Nitroaniline	2.8 U	ug/L		2.8	0.33	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
3-Nitroaniline	2.8 U	ug/L		2.8	1.0	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
4-Nitroaniline	2.8 U	ug/L		2.8	0.43	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Nitrobenzene	2.8 U	ug/L		2.8	0.65	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
2-Nitrophenol	7.6 U	ug/L		7.6	1.4	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
4-Nitrophenol	7.6 U	ug/L		7.6	2.8	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
N-Nitroso-di-n-propylamine	2.8 U	ug/L		2.8	0.53	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
N-Nitrosodiphenylamine	2.8 U	ug/L		2.8	0.79	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Pent[illegible]hlorophenol	15.2 U	ug/L		15.2	2.5	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Ph[illegible]hrene	1.4 U	ug/L		1.4	0.31	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
P[illegible]	7.6 U	ug/L		7.6	0.68	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Pyrene	1.4 U	ug/L		1.4	0.48	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
1,2,4-Trichlorobenzene	2.8 U	ug/L		2.8	0.61	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
2,4,5-Trichlorophenol	7.6 U	ug/L		7.6	1.7	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
2,4,6-Trichlorophenol	7.6 U	ug/L		7.6	0.52	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	109	%		40-125	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
2-Fluorobiphenyl (S)	84.7	%		50-110	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
2-Fluorophenol (S)	46.9	%		20-75	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Nitrobenzene-d5 (S)	79.1	%		40-110	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Phenol-d5 (S)	27.8	%		13-49	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1
Terphenyl-d14 (S)	82.9	%		50-122	SW846 8270D	12/13/10	MPP	12/13/10 20:41	CGS	C1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: **9879428003** Date Collected: 12/6/2010 10:10 Matrix: Ground Water

Sample ID: **FH-120610-NS-MW02** Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	10.0 U	ug/L		10.0	3.1	SW846 8260B			12/13/10 23:02	DJB	A
Benzene	0.67J	ug/L		1.0	0.23	SW846 8260B			12/13/10 23:02	DJB	A
Bromochloromethane	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/13/10 23:02	DJB	A
Bromodichloromethane	1.0 U	ug/L		1.0	0.27	SW846 8260B			12/13/10 23:02	DJB	A
Bromoform	1.0 U	ug/L		1.0	0.40	SW846 8260B			12/13/10 23:02	DJB	A
Bromomethane	1.0 U	ug/L		1.0	0.39	SW846 8260B			12/13/10 23:02	DJB	A
2-Butanone	10.0 U	ug/L		10.0	1.8	SW846 8260B			12/13/10 23:02	DJB	A
Carbon Disulfide	1.0 U	ug/L		1.0	0.23	SW846 8260B			12/13/10 23:02	DJB	A
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/13/10 23:02	DJB	A
Chlorobenzene	1.0 U	ug/L		1.0	0.19	SW846 8260B			12/13/10 23:02	DJB	A
Chlorodibromomethane	1.0 U	ug/L		1.0	0.45	SW846 8260B			12/13/10 23:02	DJB	A
Chloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 23:02	DJB	A
Ch[illegible]orm	1.0 U	ug/L		1.0	0.21	SW846 8260B			12/13/10 23:02	DJB	A
C[illegible]methane	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/13/10 23:02	DJB	A
1,2-Dibromo-3-chloropropane	7.0 U	ug/L		7.0	1.5	SW846 8260B			12/13/10 23:02	DJB	A
1,2-Dibromoethane	1.0 U	ug/L		1.0	0.28	SW846 8260B			12/13/10 23:02	DJB	A
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.28	SW846 8260B			12/13/10 23:02	DJB	A
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/13/10 23:02	DJB	A
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.29	SW846 8260B			12/13/10 23:02	DJB	A
cis-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/13/10 23:02	DJB	A
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.26	SW846 8260B			12/13/10 23:02	DJB	A
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.24	SW846 8260B			12/13/10 23:02	DJB	A
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/13/10 23:02	DJB	A
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.29	SW846 8260B			12/13/10 23:02	DJB	A
Ethylbenzene	19.9	ug/L		1.0	0.34	SW846 8260B			12/13/10 23:02	DJB	A
2-Hexanone	1.4J	ug/L		5.0	1.3	SW846 8260B			12/13/10 23:02	DJB	A
Methyl t-Butyl Ether	3.5	ug/L		1.0	0.33	SW846 8260B			12/13/10 23:02	DJB	A
4-Methyl-2-Pentanone(MIBK)	11.5	ug/L		5.0	1.5	SW846 8260B			12/13/10 23:02	DJB	A
Methylene Chloride	1.0 U	ug/L		1.0	0.45	SW846 8260B			12/13/10 23:02	DJB	A
Styrene	1.0 U	ug/L		1.0	0.24	SW846 8260B			12/13/10 23:02	DJB	A
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.34	SW846 8260B			12/13/10 23:02	DJB	A
Tetrachloroethene	1.0 U	ug/L		1.0	0.35	SW846 8260B			12/13/10 23:02	DJB	A
Toluene	0.93J	ug/L		1.0	0.23	SW846 8260B			12/13/10 23:02	DJB	A
Total Xylenes	10.4	ug/L		3.0	0.66	SW846 8260B			12/13/10 23:02	DJB	A
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.22	SW846 8260B			12/13/10 23:02	DJB	A
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 23:02	DJB	A
Trichloroethene	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 23:02	DJB	A
Vinyl Chloride	1.0 U	ug/L		1.0	0.30	SW846 8260B			12/13/10 23:02	DJB	A
o-Xylene	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 23:02	DJB	A
m[illegible]ene	10.4	ug/L		2.0	0.52	SW846 8260B			12/13/10 23:02	DJB	A

Library Search - Volatiles

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*

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ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: **9879428003** Date Collected: 12/6/2010 10:10 Matrix: Ground Water

Sample ID: **FH-120610-NS-MW02** Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	87.3	%		62-133		SW846 8260B			12/13/10 23:02	DJB	A
4-Bromofluorobenzene (S)	83.7	%		79-114		SW846 8260B			12/13/10 23:02	DJB	A
Toluene-d8 (S)	91.8	%		76-127		SW846 8260B			12/13/10 23:02	DJB	A
Dibromofluoromethane (S)	83.8	%		78-116		SW846 8260B			12/13/10 23:02	DJB	A
SEMIVOLATILES											
Acenaphthene	1.4 U	ug/L		1.4	0.49	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Acenaphthylene	1.4 U	ug/L		1.4	0.33	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Anthracene	1.4 U	ug/L		1.4	0.43	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Benzo(a)anthracene	1.4 U	ug/L		1.4	0.31	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Benzo(a)pyrene	1.4 U	ug/L		1.4	0.32	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Benzo(b)fluoranthene	1.4 U	ug/L		1.4	0.33	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Benzo(g,h,i)perylene	1.4 U	ug/L		1.4	0.42	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Be[illegible]c)fluoranthene	1.4 U	ug/L		1.4	0.37	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
4[illegible]ophenyl-phenylether	2.9 U	ug/L		2.9	0.38	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Bu[illegible]benzylphthalate	2.9 U	ug/L		2.9	0.45	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Carbazole	2.9 U	ug/L		2.9	0.29	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
4-Chloro-3-methylphenol	7.7 U	ug/L		7.7	0.91	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
4-Chloroaniline	2.9 U	ug/L		2.9	0.87	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
bis(2-Chloroethoxy)methane	2.9 U	ug/L		2.9	0.77	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
bis(2-Chloroethyl)ether	2.9 U	ug/L		2.9	0.48	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
bis(2-Chloroisopropyl)ether	2.9 U	ug/L		2.9	0.60	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
2-Chloronaphthalene	2.9 U	ug/L		2.9	0.38	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
2-Chlorophenol	7.7 U	ug/L		7.7	0.81	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
4-Chlorophenyl-phenylether	2.9 U	ug/L		2.9	0.52	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Chrysene	1.4 U	ug/L		1.4	0.32	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
mp-Cresol	7.7 U	ug/L		7.7	0.49	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
o-Cresol	7.7 U	ug/L		7.7	0.47	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Di-n-Butylphthalate	2.9 U	ug/L		2.9	0.43	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Di-n-Octylphthalate	7.7 U	ug/L		7.7	0.54	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Dibenzo(a,h)anthracene	1.9 U	ug/L		1.9	0.91	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Dibenzofuran	2.9 U	ug/L		2.9	0.71	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
1,2-Dichlorobenzene	2.9 U	ug/L		2.9	0.36	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
1,3-Dichlorobenzene	2.9 U	ug/L		2.9	0.45	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
1,4-Dichlorobenzene	2.9 U	ug/L		2.9	0.61	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
3,3-Dichlorobenzidine	15.5 U	ug/L		15.5	2.6	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
2,4-Dichlorophenol	7.7 U	ug/L		7.7	0.59	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Diethylphthalate	1.2J	ug/L		7.7	0.32	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
2,4-Dimethylphenol	7.7 U	ug/L		7.7	2.0	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Dimethylphthalate	7.7 U	ug/L		7.7	0.52	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
2,4-Dinitrophenol	15.5 U	ug/L		15.5	3.5	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
2,4[illegible]itrotoluene	2.9 U	ug/L		2.9	0.38	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
2[illegible]itrotoluene	2.9 U	ug/L		2.9	0.34	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
bi[illegible]Ethylhexyl)phthalate	2.9 U	ug/L		2.9	0.56	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Fluoranthene	1.4 U	ug/L		1.4	0.34	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Fluorene	1.4 U	ug/L		1.4	0.39	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Hexachlorobenzene	2.9 U	ug/L		2.9	0.52	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1

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ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: **9879428003** Date Collected: 12/6/2010 10:10 Matrix: Ground Water

Sample ID: **FH-120610-NS-MW02** Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobutadiene	2.9 U	ug/L		2.9	0.48	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Hexachlorocyclopentadiene	7.7 U	ug/L		7.7	1.2	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Hexachloroethane	2.9 U	ug/L		2.9	0.84	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Indeno(1,2,3-cd)pyrene	1.4 U	ug/L		1.4	0.25	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Isophorone	2.9 U	ug/L		2.9	0.59	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
2-Methyl-4,6-dinitrophenol	7.7 U	ug/L		7.7	2.3	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
2-Methylnaphthalene	1.9 U	ug/L		1.9	0.92	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Naphthalene	0.59J	ug/L		1.4	0.44	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
2-Nitroaniline	2.9 U	ug/L		2.9	0.34	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
3-Nitroaniline	2.9 U	ug/L		2.9	1.1	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
4-Nitroaniline	2.9 U	ug/L		2.9	0.43	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Nitrobenzene	2.9 U	ug/L		2.9	0.67	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
2-Nitrophenol	7.7 U	ug/L		7.7	1.4	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
4-N[illegible]henol	7.7 U	ug/L		7.7	2.9	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
N-[illegible]o-di-n-propylamine	2.9 U	ug/L		2.9	0.54	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
N-[illegible]sodiphenylamine	2.9 U	ug/L		2.9	0.80	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Pentachlorophenol	15.5 U	ug/L		15.5	2.5	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Phenanthrene	1.4 U	ug/L		1.4	0.32	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Phenol	7.7 U	ug/L		7.7	0.70	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Pyrene	1.4 U	ug/L		1.4	0.49	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
1,2,4-Trichlorobenzene	2.9 U	ug/L		2.9	0.62	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
2,4,5-Trichlorophenol	7.7 U	ug/L		7.7	1.7	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
2,4,6-Trichlorophenol	7.7 U	ug/L		7.7	0.53	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	111	%		40-125	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
2-Fluorobiphenyl (S)	79.5	%		50-110	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
2-Fluorophenol (S)	46.5	%		20-75	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Nitrobenzene-d5 (S)	78.2	%		40-110	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Phenol-d5 (S)	27.9	%		13-49	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1
Terphenyl-d14 (S)	79.2	%		50-122	SW846 8270D	12/13/10	MPP	12/13/10 22:21	CGS	C1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: **9879428004** Date Collected: 12/6/2010 13:15 Matrix: Ground Water

Sample ID: **FH-120610-NS-MW03** Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	10.0 U	ug/L		10.0	3.1	SW846 8260B			12/13/10 23:35	DJB	A
Benzene	3.8	ug/L		1.0	0.23	SW846 8260B			12/13/10 23:35	DJB	A
Bromochloromethane	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/13/10 23:35	DJB	A
Bromodichloromethane	1.0 U	ug/L		1.0	0.27	SW846 8260B			12/13/10 23:35	DJB	A
Bromoform	1.0 U	ug/L		1.0	0.40	SW846 8260B			12/13/10 23:35	DJB	A
Bromomethane	1.0 U	ug/L		1.0	0.39	SW846 8260B			12/13/10 23:35	DJB	A
2-Butanone	10.0 U	ug/L		10.0	1.8	SW846 8260B			12/13/10 23:35	DJB	A
Carbon Disulfide	1.0 U	ug/L		1.0	0.23	SW846 8260B			12/13/10 23:35	DJB	A
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/13/10 23:35	DJB	A
Chlorobenzene	1.0 U	ug/L		1.0	0.19	SW846 8260B			12/13/10 23:35	DJB	A
Chlorodibromomethane	1.0 U	ug/L		1.0	0.45	SW846 8260B			12/13/10 23:35	DJB	A
Chloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 23:35	DJB	A
Chloroform	1.0 U	ug/L		1.0	0.21	SW846 8260B			12/13/10 23:35	DJB	A
Cl[illegible]ethane	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/13/10 23:35	DJB	A
1,2[illegible]romo-3-chloropropane	7.0 U	ug/L		7.0	1.5	SW846 8260B			12/13/10 23:35	DJB	A
1,2-Dibromoethane	1.0 U	ug/L		1.0	0.28	SW846 8260B			12/13/10 23:35	DJB	A
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.28	SW846 8260B			12/13/10 23:35	DJB	A
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/13/10 23:35	DJB	A
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.29	SW846 8260B			12/13/10 23:35	DJB	A
cis-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/13/10 23:35	DJB	A
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.26	SW846 8260B			12/13/10 23:35	DJB	A
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.24	SW846 8260B			12/13/10 23:35	DJB	A
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/13/10 23:35	DJB	A
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.29	SW846 8260B			12/13/10 23:35	DJB	A
Ethylbenzene	3.6	ug/L		1.0	0.34	SW846 8260B			12/13/10 23:35	DJB	A
2-Hexanone	5.0 U	ug/L		5.0	1.3	SW846 8260B			12/13/10 23:35	DJB	A
Methyl t-Butyl Ether	7.1	ug/L		1.0	0.33	SW846 8260B			12/13/10 23:35	DJB	A
4-Methyl-2-Pentanone(MIBK)	9.4	ug/L		5.0	1.5	SW846 8260B			12/13/10 23:35	DJB	A
Methylene Chloride	1.0 U	ug/L		1.0	0.45	SW846 8260B			12/13/10 23:35	DJB	A
Styrene	1.0 U	ug/L		1.0	0.24	SW846 8260B			12/13/10 23:35	DJB	A
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.34	SW846 8260B			12/13/10 23:35	DJB	A
Tetrachloroethene	1.0 U	ug/L		1.0	0.35	SW846 8260B			12/13/10 23:35	DJB	A
Toluene	1.0 U	ug/L		1.0	0.23	SW846 8260B			12/13/10 23:35	DJB	A
Total Xylenes	2.3J	ug/L		3.0	0.66	SW846 8260B			12/13/10 23:35	DJB	A
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.22	SW846 8260B			12/13/10 23:35	DJB	A
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 23:35	DJB	A
Trichloroethene	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 23:35	DJB	A
Vinyl Chloride	1.0 U	ug/L		1.0	0.30	SW846 8260B			12/13/10 23:35	DJB	A
o-Xylene	0.71J	ug/L		1.0	0.33	SW846 8260B			12/13/10 23:35	DJB	A
mp-Xylene	1.6J	ug/L		2.0	0.52	SW846 8260B			12/13/10 23:35	DJB	A

Library Search - Volatiles

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*

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ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: **9879428004** Date Collected: 12/6/2010 13:15 Matrix: Ground Water

Sample ID: **FH-120610-NS-MW03** Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	79.3	%		62-133		SW846 8260B			12/13/10 23:35	DJB	A
Toluene-d8 (S)	89	%		76-127		SW846 8260B			12/13/10 23:35	DJB	A
Dibromofluoromethane (S)	81.3	%		78-116		SW846 8260B			12/13/10 23:35	DJB	A
4-Bromofluorobenzene (S)	80.7	%		79-114		SW846 8260B			12/13/10 23:35	DJB	A
SEMIVOLATILES											
Acenaphthene	1.5 U	ug/L		1.5	0.51	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Acenaphthylene	1.5 U	ug/L		1.5	0.34	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Anthracene	1.5 U	ug/L		1.5	0.44	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Benzo(a)anthracene	1.5 U	ug/L		1.5	0.32	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Benzo(a)pyrene	1.5 U	ug/L		1.5	0.33	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Benzo(b)fluoranthene	1.5 U	ug/L		1.5	0.34	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Benzo(g,h,i)perylene	1.5 U	ug/L		1.5	0.43	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Benzo(k)fluoranthene	1.5 U	ug/L		1.5	0.38	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
4-[illegible]phenyl-phenylether	3.0 U	ug/L		3.0	0.39	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Butylbenzylphthalate	3.0 U	ug/L		3.0	0.47	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Carbazole	3.0 U	ug/L		3.0	0.30	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
4-Chloro-3-methylphenol	8.0 U	ug/L		8.0	0.94	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
4-Chloroaniline	3.0 U	ug/L		3.0	0.90	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
bis(2-Chloroethoxy)methane	3.0 U	ug/L		3.0	0.80	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
bis(2-Chloroethyl)ether	3.0 U	ug/L		3.0	0.50	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
bis(2-Chloroisopropyl)ether	3.0 U	ug/L		3.0	0.62	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
2-Chloronaphthalene	3.0 U	ug/L		3.0	0.39	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
2-Chlorophenol	8.0 U	ug/L		8.0	0.84	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
4-Chlorophenyl-phenylether	3.0 U	ug/L		3.0	0.54	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Chrysene	1.5 U	ug/L		1.5	0.33	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
mp-Cresol	8.0 U	ug/L		8.0	0.51	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
o-Cresol	8.0 U	ug/L		8.0	0.49	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Di-n-Butylphthalate	3.0 U	ug/L		3.0	0.44	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Di-n-Octylphthalate	8.0 U	ug/L		8.0	0.56	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Dibenzo(a,h)anthracene	2.0 U	ug/L		2.0	0.94	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Dibenzofuran	3.0 U	ug/L		3.0	0.73	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
1,2-Dichlorobenzene	3.0 U	ug/L		3.0	0.37	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
1,3-Dichlorobenzene	3.0 U	ug/L		3.0	0.47	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
1,4-Dichlorobenzene	3.0 U	ug/L		3.0	0.63	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
3,3-Dichlorobenzidine	15.9 U	ug/L		15.9	2.7	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
2,4-Dichlorophenol	8.0 U	ug/L		8.0	0.61	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Diethylphthalate	8.0 U	ug/L		8.0	0.33	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
2,4-Dimethylphenol	8.0 U	ug/L		8.0	2.1	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Dimethylphthalate	8.0 U	ug/L		8.0	0.54	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
2,4-Dinitrophenol	15.9 U	ug/L		15.9	3.6	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
2,4-Dinitrotoluene	3.0 U	ug/L		3.0	0.39	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
2,[illegible]rotoluene	3.0 U	ug/L		3.0	0.35	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
bis([illegible]ylhexyl)phthalate	3.0 U	ug/L		3.0	0.58	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Fluoranthene	1.5 U	ug/L		1.5	0.35	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Fluorene	1.5 U	ug/L		1.5	0.40	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Hexachlorobenzene	3.0 U	ug/L		3.0	0.54	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1

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ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: **9879428004** Date Collected: 12/6/2010 13:15 Matrix: Ground Water

Sample ID: **FH-120610-NS-MW03** Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobutadiene	3.0 U	ug/L		3.0	0.50	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Hexachlorocyclopentadiene	8.0 U	ug/L		8.0	1.2	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Hexachloroethane	3.0 U	ug/L		3.0	0.87	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Indeno(1,2,3-cd)pyrene	1.5 U	ug/L		1.5	0.26	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Isophorone	3.0 U	ug/L		3.0	0.61	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
2-Methyl-4,6-dinitrophenol	8.0 U	ug/L		8.0	2.4	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
2-Methylnaphthalene	2.0 U	ug/L		2.0	0.95	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Naphthalene	1.5 U	ug/L		1.5	0.46	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
2-Nitroaniline	3.0 U	ug/L		3.0	0.35	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
3-Nitroaniline	3.0 U	ug/L		3.0	1.1	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
4-Nitroaniline	3.0 U	ug/L		3.0	0.45	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Nitrobenzene	3.0 U	ug/L		3.0	0.69	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
2-Nitrophenol	8.0 U	ug/L		8.0	1.5	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
4-Nitrophenol	8.0 U	ug/L		8.0	3.0	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
N-[illegible]o-di-n-propylamine	3.0 U	ug/L		3.0	0.56	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
N-[illegible]sodiphenylamine	3.0 U	ug/L		3.0	0.83	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Pentachlorophenol	15.9 U	ug/L		15.9	2.6	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Phenanthrene	1.5 U	ug/L		1.5	0.33	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Phenol	8.0 U	ug/L		8.0	0.72	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Pyrene	1.5 U	ug/L		1.5	0.51	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
1,2,4-Trichlorobenzene	3.0 U	ug/L		3.0	0.64	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
2,4,5-Trichlorophenol	8.0 U	ug/L		8.0	1.8	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
2,4,6-Trichlorophenol	8.0 U	ug/L		8.0	0.55	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	113	%		40-125	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
2-Fluorobiphenyl (S)	84.9	%		50-110	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
2-Fluorophenol (S)	49.4	%		20-75	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Nitrobenzene-d5 (S)	78.5	%		40-110	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Phenol-d5 (S)	30	%		13-49	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1
Terphenyl-d14 (S)	80.8	%		50-122	SW846 8270D	12/13/10	MPP	12/13/10 21:05	CGS	C1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: **9879428005** Date Collected: 12/6/2010 15:15 Matrix: Ground Water

Sample ID: **FH-120610-NS-MW04** Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	10.0 U	ug/L		10.0	3.1	SW846 8260B			12/14/10 15:02	MES	A
Benzene	33.1	ug/L		1.0	0.23	SW846 8260B			12/14/10 15:02	MES	A
Bromochloromethane	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/14/10 15:02	MES	A
Bromodichloromethane	1.0 U	ug/L		1.0	0.27	SW846 8260B			12/14/10 15:02	MES	A
Bromoform	1.0 U	ug/L		1.0	0.40	SW846 8260B			12/14/10 15:02	MES	A
Bromomethane	1.0 U	ug/L		1.0	0.39	SW846 8260B			12/14/10 15:02	MES	A
2-Butanone	10.0 U	ug/L		10.0	1.8	SW846 8260B			12/14/10 15:02	MES	A
Carbon Disulfide	1.0 U	ug/L		1.0	0.23	SW846 8260B			12/14/10 15:02	MES	A
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/14/10 15:02	MES	A
Chlorobenzene	0.31J	ug/L		1.0	0.19	SW846 8260B			12/14/10 15:02	MES	A
Chlorodibromomethane	1.0 U	ug/L		1.0	0.45	SW846 8260B			12/14/10 15:02	MES	A
Chloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/14/10 15:02	MES	A
Chloroform	1.0 U	ug/L		1.0	0.21	SW846 8260B			12/14/10 15:02	MES	A
C[illegible]ethane	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/14/10 15:02	MES	A
1,2-[illegible]romo-3-chloropropane	7.0 U	ug/L		7.0	1.5	SW846 8260B			12/14/10 15:02	MES	A
1,2-Dibromoethane	1.0 U	ug/L		1.0	0.28	SW846 8260B			12/14/10 15:02	MES	A
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.28	SW846 8260B			12/14/10 15:02	MES	A
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/14/10 15:02	MES	A
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.29	SW846 8260B			12/14/10 15:02	MES	A
cis-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/14/10 15:02	MES	A
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.26	SW846 8260B			12/14/10 15:02	MES	A
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.24	SW846 8260B			12/14/10 15:02	MES	A
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/14/10 15:02	MES	A
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.29	SW846 8260B			12/14/10 15:02	MES	A
Ethylbenzene	286	ug/L		10.0	3.4	SW846 8260B			12/16/10 02:07	DJB	B
2-Hexanone	16.7	ug/L		5.0	1.3	SW846 8260B			12/14/10 15:02	MES	A
Methyl t-Butyl Ether	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/14/10 15:02	MES	A
4-Methyl-2-Pentanone(MIBK)	12.4	ug/L		5.0	1.5	SW846 8260B			12/14/10 15:02	MES	A
Methylene Chloride	1.0 U	ug/L		1.0	0.45	SW846 8260B			12/14/10 15:02	MES	A
Styrene	1.0 U	ug/L		1.0	0.24	SW846 8260B			12/14/10 15:02	MES	A
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.34	SW846 8260B			12/14/10 15:02	MES	A
Tetrachloroethene	1.0 U	ug/L		1.0	0.35	SW846 8260B			12/14/10 15:02	MES	A
Toluene	226	ug/L		10.0	2.3	SW846 8260B			12/16/10 02:07	DJB	B
Total Xylenes	2960	ug/L		30.0	6.6	SW846 8260B			12/16/10 02:07	DJB	B
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.22	SW846 8260B			12/14/10 15:02	MES	A
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/14/10 15:02	MES	A
Trichloroethene	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/14/10 15:02	MES	A
Vinyl Chloride	1.0 U	ug/L		1.0	0.30	SW846 8260B			12/14/10 15:02	MES	A
o-Xylene	880	ug/L		10.0	3.3	SW846 8260B			12/16/10 02:07	DJB	B
mp-Xylene	2080	ug/L		20.0	5.2	SW846 8260B			12/16/10 02:07	DJB	B

Su[illegible]te Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96.8	%		62-133	SW846 8260B			12/14/10 15:02	MES	A
4-Bromofluorobenzene (S)	84.3	%		79-114	SW846 8260B			12/14/10 15:02	MES	A
Dibromofluoromethane (S)	87.6	%		78-116	SW846 8260B			12/14/10 15:02	MES	A

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ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: **9879428005** Date Collected: 12/6/2010 15:15 Matrix: Ground Water

Sample ID: **FH-120610-NS-MW04** Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene-d8 (S)	93.6	%		76-127		SW846 8260B			12/14/10 15:02	MES	A
1,2-Dichloroethane-d4 (S)	91.7	%		62-133		SW846 8260B			12/16/10 02:07	DJB	B
4-Bromofluorobenzene (S)	83.4	%		79-114		SW846 8260B			12/16/10 02:07	DJB	B
Dibromofluoromethane (S)	90.3	%		78-116		SW846 8260B			12/16/10 02:07	DJB	B
Toluene-d8 (S)	88.9	%		76-127		SW846 8260B			12/16/10 02:07	DJB	B
SEMIVOLATILES											
Acenaphthene	1.4 U	ug/L		1.4	0.49	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Acenaphthylene	1.4 U	ug/L		1.4	0.33	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Anthracene	1.4 U	ug/L		1.4	0.43	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Benzo(a)anthracene	1.4 U	ug/L		1.4	0.31	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Benzo(a)pyrene	1.4 U	ug/L		1.4	0.32	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Benzo(b)fluoranthene	1.4 U	ug/L		1.4	0.33	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Benzo(g,h,i)perylene	1.4 U	ug/L		1.4	0.42	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
B[illegible]c)fluoranthene	1.4 U	ug/L		1.4	0.37	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
4-B[illegible]ophenyl-phenylether	2.9 U	ug/L		2.9	0.38	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Butylbenzylphthalate	2.1J	ug/L		2.9	0.45	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Carbazole	2.9 U	ug/L		2.9	0.29	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
4-Chloro-3-methylphenol	7.7 U	ug/L		7.7	0.91	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
4-Chloroaniline	2.9 U	ug/L		2.9	0.87	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
bis(2-Chloroethoxy)methane	2.9 U	ug/L		2.9	0.77	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
bis(2-Chloroethyl)ether	2.9 U	ug/L		2.9	0.48	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
bis(2-Chloroisopropyl)ether	2.9 U	ug/L		2.9	0.60	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
2-Chloronaphthalene	2.9 U	ug/L		2.9	0.38	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
2-Chlorophenol	7.7 U	ug/L		7.7	0.81	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
4-Chlorophenyl-phenylether	2.9 U	ug/L		2.9	0.52	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Chrysene	1.4 U	ug/L		1.4	0.32	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
mp-Cresol	9.4	ug/L		7.7	0.49	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
o-Cresol	6.1J	ug/L		7.7	0.47	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Di-n-Butylphthalate	2.3J	ug/L		2.9	0.43	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Di-n-Octylphthalate	7.7 U	ug/L		7.7	0.54	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Dibenzo(a,h)anthracene	1.9 U	ug/L		1.9	0.91	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Dibenzofuran	2.9 U	ug/L		2.9	0.71	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
1,2-Dichlorobenzene	2.9 U	ug/L		2.9	0.36	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
1,3-Dichlorobenzene	2.9 U	ug/L		2.9	0.45	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
1,4-Dichlorobenzene	2.9 U	ug/L		2.9	0.61	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
3,3-Dichlorobenzidine	15.5 U	ug/L		15.5	2.6	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
2,4-Dichlorophenol	7.7 U	ug/L		7.7	0.59	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Diethylphthalate	0.39J	ug/L		7.7	0.32	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
2,4-Dimethylphenol	60.6	ug/L		7.7	2.0	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Dimethylphthalate	7.7 U	ug/L		7.7	0.52	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
2,4-Dinitrophenol	15.5 U	ug/L		15.5	3.5	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
2,[illegible]trotoluene	2.9 U	ug/L		2.9	0.38	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
2,[illegible]rotoluene	2.9 U	ug/L		2.9	0.34	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
bis(2-Ethylhexyl)phthalate	3.5	ug/L		2.9	0.56	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Fluoranthene	1.4 U	ug/L		1.4	0.34	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Fluorene	1.4 U	ug/L		1.4	0.39	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1

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34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: **9879428005** Date Collected: 12/6/2010 15:15 Matrix: Ground Water

Sample ID: **FH-120610-NS-MW04** Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobenzene	2.9 U	ug/L		2.9	0.52	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Hexachlorobutadiene	2.9 U	ug/L		2.9	0.48	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Hexachlorocyclopentadiene	7.7 U	ug/L		7.7	1.2	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Hexachloroethane	2.9 U	ug/L		2.9	0.84	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Indeno(1,2,3-cd)pyrene	1.4 U	ug/L		1.4	0.25	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Isophorone	2.9 U	ug/L		2.9	0.59	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
2-Methyl-4,6-dinitrophenol	7.7 U	ug/L		7.7	2.3	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
2-Methylnaphthalene	1.9 U	ug/L		1.9	0.92	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Naphthalene	4.8	ug/L		1.4	0.44	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
2-Nitroaniline	2.9 U	ug/L		2.9	0.34	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
3-Nitroaniline	2.9 U	ug/L		2.9	1.1	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
4-Nitroaniline	2.9 U	ug/L		2.9	0.43	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Nitrobenzene	2.9 U	ug/L		2.9	0.67	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
2-Nitrophenol	7.7 U	ug/L		7.7	1.4	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
4-[illegible]henol	7.7 U	ug/L		7.7	2.9	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
N-[illegible]so-di-n-propylamine	2.9 U	ug/L		2.9	0.54	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
N-Nitrosodiphenylamine	2.9 U	ug/L		2.9	0.80	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Pentachlorophenol	15.5 U	ug/L		15.5	2.5	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Phenanthrene	1.4 U	ug/L		1.4	0.32	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Phenol	7.7 U	ug/L		7.7	0.70	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Pyrene	1.4 U	ug/L		1.4	0.49	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
1,2,4-Trichlorobenzene	2.9 U	ug/L		2.9	0.62	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
2,4,5-Trichlorophenol	7.7 U	ug/L		7.7	1.7	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
2,4,6-Trichlorophenol	7.7 U	ug/L		7.7	0.53	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	107	%		40-125	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
2-Fluorobiphenyl (S)	70.8	%		50-110	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
2-Fluorophenol (S)	37	%		20-75	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Nitrobenzene-d5 (S)	64.5	%		40-110	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Phenol-d5 (S)	22.2	%		13-49	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1
Terphenyl-d14 (S)	74.5	%		50-122	SW846 8270D	12/13/10	MPP	12/14/10 01:17	CGS	C1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: **9879428006** Date Collected: 12/6/2010 00:00 Matrix: Ground Water

Sample ID: **FH-120610-TB** Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	10.0 U	ug/L		10.0	3.1	SW846 8260B			12/13/10 20:48	DJB	A
Benzene	1.0 U	ug/L		1.0	0.23	SW846 8260B			12/13/10 20:48	DJB	A
Bromochloromethane	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/13/10 20:48	DJB	A
Bromodichloromethane	1.0 U	ug/L		1.0	0.27	SW846 8260B			12/13/10 20:48	DJB	A
Bromoform	1.0 U	ug/L		1.0	0.40	SW846 8260B			12/13/10 20:48	DJB	A
Bromomethane	1.0 U	ug/L		1.0	0.39	SW846 8260B			12/13/10 20:48	DJB	A
2-Butanone	10.0 U	ug/L		10.0	1.8	SW846 8260B			12/13/10 20:48	DJB	A
Carbon Disulfide	1.0 U	ug/L		1.0	0.23	SW846 8260B			12/13/10 20:48	DJB	A
Carbon Tetrachloride	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/13/10 20:48	DJB	A
Chlorobenzene	1.0 U	ug/L		1.0	0.19	SW846 8260B			12/13/10 20:48	DJB	A
Chlorodibromomethane	1.0 U	ug/L		1.0	0.45	SW846 8260B			12/13/10 20:48	DJB	A
Chloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 20:48	DJB	A
Chloroform	1.0 U	ug/L		1.0	0.21	SW846 8260B			12/13/10 20:48	DJB	A
C[illegible]ethane	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/13/10 20:48	DJB	A
1,2-[illegible]romo-3-chloropropane	7.0 U	ug/L		7.0	1.5	SW846 8260B			12/13/10 20:48	DJB	A
1,2-Dibromoethane	1.0 U	ug/L		1.0	0.28	SW846 8260B			12/13/10 20:48	DJB	A
1,1-Dichloroethane	1.0 U	ug/L		1.0	0.28	SW846 8260B			12/13/10 20:48	DJB	A
1,2-Dichloroethane	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/13/10 20:48	DJB	A
1,1-Dichloroethene	1.0 U	ug/L		1.0	0.29	SW846 8260B			12/13/10 20:48	DJB	A
cis-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.32	SW846 8260B			12/13/10 20:48	DJB	A
trans-1,2-Dichloroethene	1.0 U	ug/L		1.0	0.26	SW846 8260B			12/13/10 20:48	DJB	A
1,2-Dichloropropane	1.0 U	ug/L		1.0	0.24	SW846 8260B			12/13/10 20:48	DJB	A
cis-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.31	SW846 8260B			12/13/10 20:48	DJB	A
trans-1,3-Dichloropropene	1.0 U	ug/L		1.0	0.29	SW846 8260B			12/13/10 20:48	DJB	A
Ethylbenzene	1.0 U	ug/L		1.0	0.34	SW846 8260B			12/13/10 20:48	DJB	A
2-Hexanone	5.0 U	ug/L		5.0	1.3	SW846 8260B			12/13/10 20:48	DJB	A
Methyl t-Butyl Ether	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 20:48	DJB	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	ug/L		5.0	1.5	SW846 8260B			12/13/10 20:48	DJB	A
Methylene Chloride	0.56J	ug/L		1.0	0.45	SW846 8260B			12/13/10 20:48	DJB	A
Styrene	1.0 U	ug/L		1.0	0.24	SW846 8260B			12/13/10 20:48	DJB	A
1,1,2,2-Tetrachloroethane	1.0 U	ug/L		1.0	0.34	SW846 8260B			12/13/10 20:48	DJB	A
Tetrachloroethene	1.0 U	ug/L		1.0	0.35	SW846 8260B			12/13/10 20:48	DJB	A
Toluene	1.0 U	ug/L		1.0	0.23	SW846 8260B			12/13/10 20:48	DJB	A
Total Xylenes	3.0 U	ug/L		3.0	0.66	SW846 8260B			12/13/10 20:48	DJB	A
1,1,1-Trichloroethane	1.0 U	ug/L		1.0	0.22	SW846 8260B			12/13/10 20:48	DJB	A
1,1,2-Trichloroethane	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 20:48	DJB	A
Trichloroethene	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 20:48	DJB	A
Vinyl Chloride	1.0 U	ug/L		1.0	0.30	SW846 8260B			12/13/10 20:48	DJB	A
o-Xylene	1.0 U	ug/L		1.0	0.33	SW846 8260B			12/13/10 20:48	DJB	A
m[illegible]-Xylene	2.0 U	ug/L		2.0	0.52	SW846 8260B			12/13/10 20:48	DJB	A

Library Search - Volatiles

Surrogate Recoveries	*Results*	*Units*	*Footnote*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*

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ANALYTICAL RESULTS

Workorder 9879428 SFM023|FT HAMILTON-NY PROJECT

Lab ID: **9879428006** Date Collected: 12/6/2010 00:00 Matrix: Ground Water

Sample ID: **FH-120610-TB** Date Received: 12/8/2010 08:40

Parameters	Results	Units	Footnote	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	100	%		62-133		SW846 8260B			12/13/10 20:48	DJB	A
4-Bromofluorobenzene (S)	96.9	%		79-114		SW846 8260B			12/13/10 20:48	DJB	A
Dibromofluoromethane (S)	95.1	%		78-116		SW846 8260B			12/13/10 20:48	DJB	A
Toluene-d8 (S)	113	%		76-127		SW846 8260B			12/13/10 20:48	DJB	A

Sample Comments:

Anna G Milliken
Laboratory Manager

Case Narrative

5206

Analytical Laboratory Services Inc.
Analytical Narrative
Shaw E & I
SFM-023

Sample Management

This report contains the results of the analysis of six (6) ground water samples collected on December 6, 2010. Analytical results and quality control information are summarized in this data package.

Sample Receipt

The samples arrived at ALSI via courier on December 8, 2010. Upon receipt, the samples were inspected and compared to the enclosed chain of custody. The samples were assigned a unique identification number (see the Certificate of Analysis). The sample information was entered into the computer system and the samples were released for analysis.

Volatile Organics by SW-846 Method 8260

Sample Handling. Six (6) ground water samples were analyzed on MS03 and MS05 by SW-846 Method 8260 volatile organic compounds. All analyses were performed within holding time.

Initial Calibrations. A six-point calibration was analyzed on MS05 on December 10, 2010 and on MS03 on December 10, 2010. The calibrations were used to quantitate the samples, blank and spikes. The initial calibrations met method criteria for all target analytes.

Continuing Calibration Checks. Calibration check standards were properly analyzed and met method criteria for all target analytes.

Blanks. Four method blanks, identified 782099, 783406, 782097, 782445 and 783410, were analyzed with the samples in this deliverable group.

- In 783410, chloroform was detected at 0.42J µg/L.

No other target analytes were detected in the method blanks.

Surrogates. A four-component surrogate mix was added to each sample, blank and spike.

- In QC sample 782446LCS, 4-bromofluorobenzene was recovered below control limits.

All surrogate recoveries were within control limits in the samples, blanks and spikes.

Internal Standards. A three-component internal standard mix was added to each sample, blank and spike. All internal standards met method criteria in the samples, blank and spikes.

Spiked Blanks. Four spiked blanks, identified as 782100, 783407, 782098, 782446 and 782411, were analyzed with the samples in this deliverable group. All target analytes were recovered within control limits in the spiked blanks.

Semi-volatile Organic Compounds

Sample Handling. Five (5) ground water samples were extracted by SW-846 Method 3510 and the extracts were analyzed by SW-846 Method 8270 for semi-volatile organic compounds. The sample, extraction blank and spike were analyzed on MS14. All extractions and analyses were performed within the holding time

Initial Calibrations. An eight-point calibration for SW-846 Method 8270 was analyzed on MS14 on November 2, 2010. The calibration was used for the analyses of the samples, blank and spike. The initial calibration met method criteria for all target analytes.

Calibration Check. Calibration check standards were properly analyzed and met method criteria for all target analytes.

Blank. A method blank, identified as 781902, was extracted and analyzed with the sample. No target analytes were detected in the method blank.

Surrogates. A six-component surrogate mix was added to each sample, blank and blank spike. All surrogate recoveries were within control limits in the samples, blank and spike.

Internal Standards. A six-component internal standard mix was added to each sample, blank and spike extract. All internal standards met method criteria in the samples, blank and spikes.

Blank Spikes. A blank spike, identified as 781903, was extracted and analyzed with the samples in this deliverable group. All target analytes were recovered within control limits in the blank spike.

PHOTOGRAPH # 1

This photo shows the piping modifications made to the liquid carbon units

SILBERG
INLET
SIEMENS

PHOTOGRAPH # 2

This photo shows the Redux drum and pump setup in the treatment unit.

REDUX-525
REDUX TECHNOLOGY
REDUX-525

PHOTOGRAPH # 3

This photo shows the Redux discharge tubing entering the oil / water separator discharge reservoir, prior to air stripping and carbon adsorption.

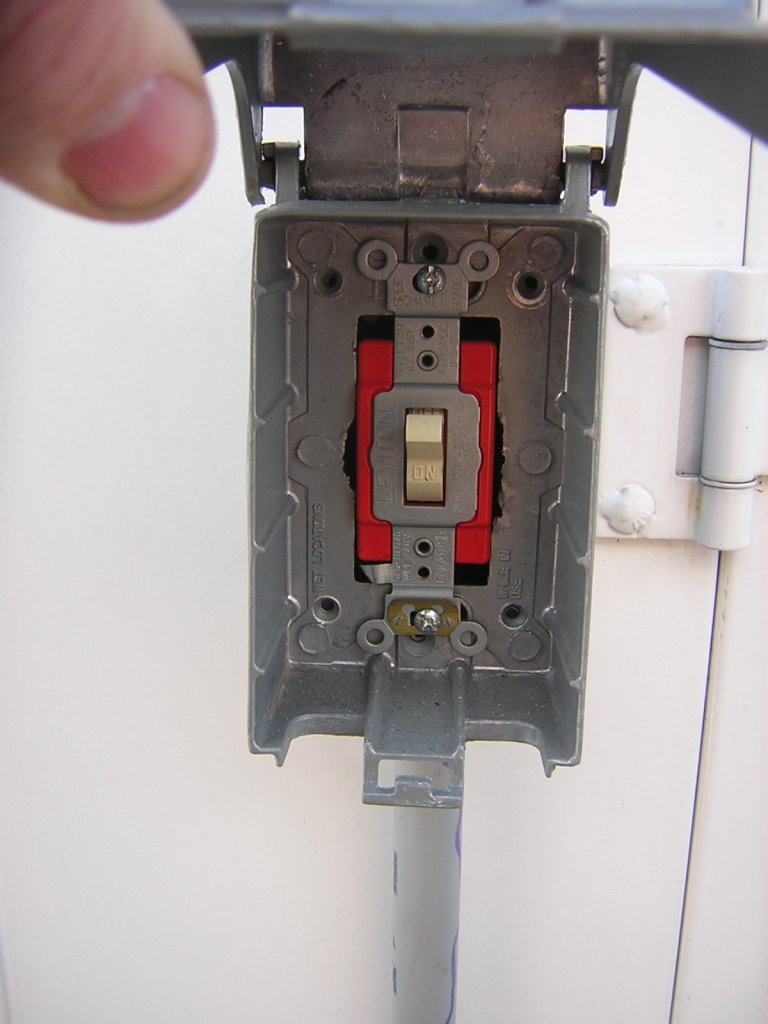
PHOTOGRAPH # 4

This photo shows the Redux Pump on / off switch housing and conduit exiting the treatment unit.

CAUTIO
HEARING
PROTECTIO
REQUIRED

PHOTOGRAPH # 5

This photo shows a close up of the Redux Pump on / off switch contained within the electrical box


LEVITON
ON
WET LOCATIONS
WHEN IN USE

PHOTOGRAPH # 6

This photo shows the Redux System conduit entering the electrical room.

simple green