Shaw Environmental, Inc.
1633 Broadway, 30th Floor
New York, New York 10019
212-290-6000
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Shaw® Shaw Environmental, Inc.

November 2, 2011

Ms. Sondra Martinkat
Environmental Engineer 2
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
47-40 21st Street
Long Island City, New York 11101

Re: Semi-Annual Groundwater Monitoring
September 2011 (10th Event, 6TH Semi-Annual Event)
Mott Haven Site
730 Concourse Village West
Bronx, New York 11375
SCA LLW# 033485/SCA Job# 28646
BCP No. C203030

Dear Ms. Martinkat:

On behalf of the New York City School Construction Authority (NYCSCA), Shaw Environmental, Inc. (Shaw) has prepared this semi-annual report regarding the post remediation groundwater sampling at the Mott Haven Site. Groundwater monitoring results are being reported in accordance with the November 2008 Mott Haven Final Site Management Plan (SMP), approved by the New York State Department of Environmental Conservation (NYSDEC) on November 25, 2008. The groundwater monitoring data will be provided to the Department in Electronic Data Deliverable (EDD) format under separate cover.

On September 17, 2011, water levels were measured in the on-site monitoring wells and in five existing off-site, upgradient monitoring wells (MW-8, MW-9, MW-18, MW-20, and MW-21) as shown on Figure 1. The depth to water measurements and corresponding groundwater elevations are presented in Table 1. Groundwater contours based on the groundwater elevation data are shown on Figure 2. The contours on Figure 2 indicate that the direction of horizontal groundwater flow is toward the southeast, as was determined during the Remedial Investigation (RI) and previous groundwater monitoring events.

On September 17, 2011, groundwater samples were collected from the seven existing on-site groundwater monitoring wells. Sampling was performed in accordance with the Sampling Event Protocol presented in Section 3.3.4 of the SMP. Field Sampling Logs for the groundwater sampling are presented in Appendix A.

The groundwater samples were submitted to Chemtech Environmental Laboratory of Mountainside, New Jersey, a New York State Environmental Laboratory Acceptance Program (ELAP) certified laboratory for analysis of Target Compound List (TCL) volatile organic compounds (VOCs) plus methyl tert-butyl ether (MTBE) per U.S. Environmental Protection Agency (USEPA) Method 8260. Table 2 summarizes

the groundwater analytical data. The laboratory analytical data report for the groundwater sample analysis is provided in Appendix B. Appendix C contains the laboratory certification forms.

No VOCs were detected in the trip blank indicating that the samples were not exposed to any environment that might impact the sample integrity. The field duplicate sample was collected from MW-23, and both the sample and the duplicate contained cis 1,2-dichloroethene (an estimated concentration of 3.1 micrograms per liter [µg/L] in MW-23 and an estimated concentration of 3.3 µg/L in the duplicate) and vinyl chloride (7.8 µg/L in MW-23 and 7.7 µg/L in the duplicate). The corresponding concentrations of cis 1,2-dichloroethene and vinyl chloride in MW-23 and the duplicate are very similar. The field duplicate results indicate good precision in the laboratory analyses. Generally, all other laboratory QC criteria (e.g., surrogate and spike recoveries) were acceptable.

The vinyl chloride concentration (7.8 µg/L) in the groundwater sample collected from MW-23 exceeded the corresponding New York State Class GA standard of 2.0 µg/L. The cis 1,2-dichloroethene and vinyl chloride detected in the sample collected from MW-23 are not related to the contaminant sources (manufactured gas plant waste and petroleum release) identified during the RI, and are likely residuals from an unidentified upgradient source(s).

No VOCs were detected in the groundwater samples from two of the three downgradient monitoring wells (MW-5R and MW-11R). Two VOCs were detected in the groundwater sample collected from MW-3R: cis 1,2-dichloroethene was detected at an estimated concentration of 1.6 µg/L and tetrachloroethene (PCE) was detected at an estimated concentration of 3.2 µg/L. Neither of the two detected VOCs exceeded the corresponding New York State Class GA standards.

Two VOCs were detected in the groundwater sample collected from MW-25. Cis 1,2-dichloroethene was detected at an estimated concentration of 0.98 µg/L, which did not exceed the Class GA standard of 5.0 µg/L. Benzene was detected at an estimated concentration of 0.76 µg/L, which did not exceed the Class GA standard of 1.0 µg/L. Cis 1,2-dichloroethene is not related to the contaminant sources (manufactured gas plant waste and petroleum release) identified during the RI, and is likely residual from an unidentified upgradient source(s). The low concentration of benzene detected in the groundwater sample collected from MW-25 is likely the result of minor residual on-site groundwater contamination remaining just outside of the Brownfield Cleanup Program (BCP) Area.

Two VOCs were detected in the groundwater sample collected from MW-26R. Cis 1,2-dichloroethene was detected at an estimated concentration of 1.0 µg/L and did not exceed the Class GA standard of 5.0 µg/L. Acetone was detected at an estimated concentration of 7.7 µg/L which did not exceed the Class GA standard of 50 µg/L. The cis 1,2-dichloroethene is not related to the contaminant sources (manufactured gas plant waste and petroleum release) identified during the RI, and is likely from an unidentified upgradient source(s). Acetone was only detected once (in MW-25R and MW-26R in September 2009) in the previous nine sampling events. Acetone is a common laboratory contaminant.

Two VOCs were detected in the groundwater sample collected from MW-24; PCE was detected at a concentration of 16 µg/L and trichloroethene (TCE) was detected at an estimated concentration of 3.8 µg/L. In previous sampling events, PCE concentrations in groundwater from MW-24 have ranged from between 26 and 51 µg/L. The Class GA standard for PCE is 5.0 µg/L. TCE was detected twice previously (March 10, 2010 and March 2011 sampling events) in the sample collected from MW-24. None of the detected TCE concentrations have exceeded the Class GA standard of 5.0 µg/L. Monitoring well MW-24 is located on the upgradient side of the Site, and the PCE and TCE detected in the groundwater sample from MW-24 are likely from upgradient sources.

The remedial objective for groundwater in the NYSDEC approved Remedial Action Work Plan (RAWP) is to maintain existing groundwater quality at the downgradient property line. Detections of VOCs were limited to one of the three monitoring wells near the downgradient property line (MW-3R) and concentrations were below groundwater quality standards. Accordingly, the remedial objective for groundwater continues to be met per the RAWP.

Please do hesitate to call us at (212) 290-6000 if you have any questions or require additional information regarding this project.

Sincerely,

SHAW ENVIRONMENTAL, INC.

Curtis A. Kraemer, P.G.
Senior Geologist

Jaime Peña
Project Manager

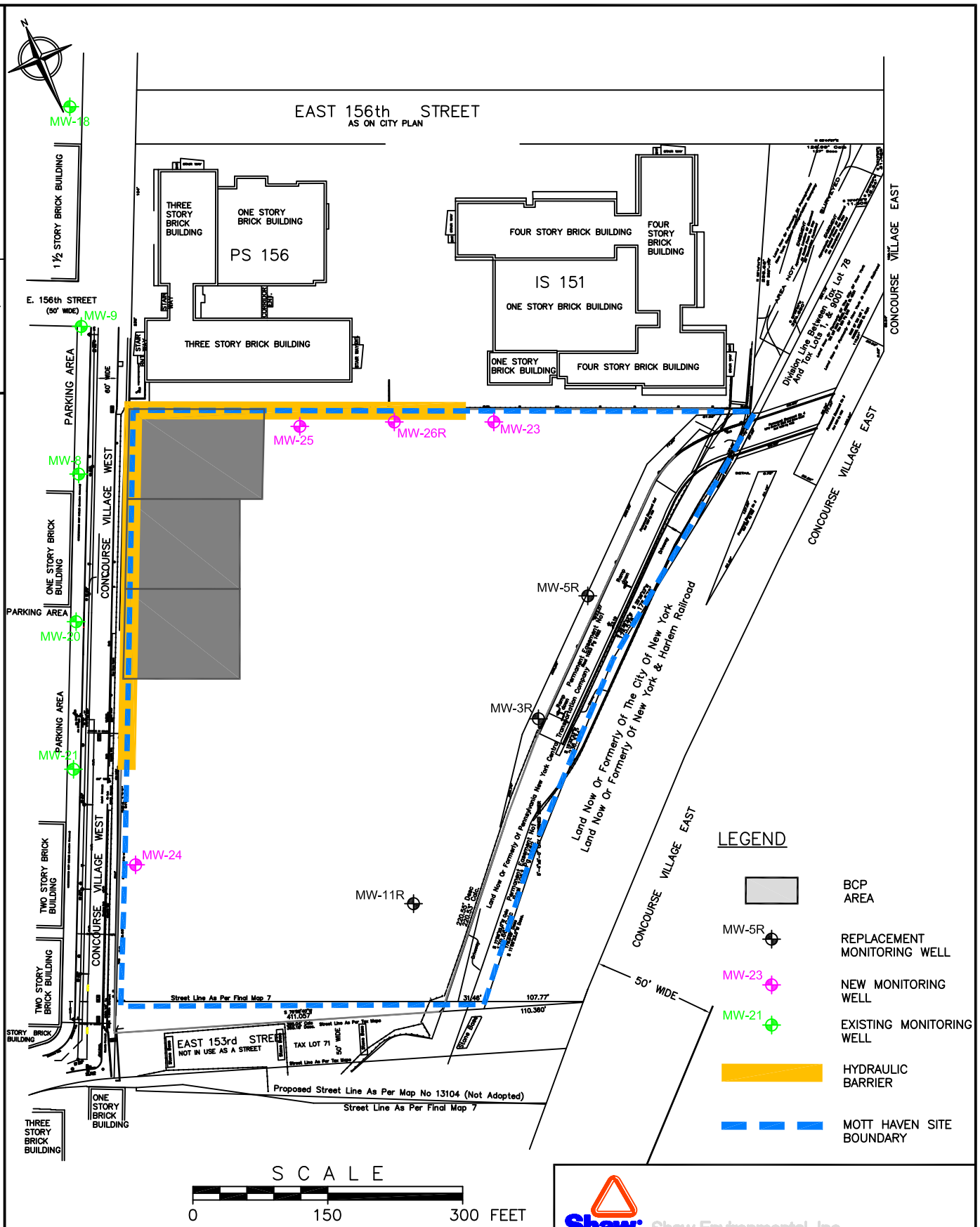
cc: C. Bethoney, NYSDOH
L. Guterman, NYCSCA

Attachments: Appendix A-Field Sampling Logs
Appendix B-Laboratory Analytical Data
Appendix C-Laboratory Certification Forms

FIGURES

OFFICE: Manhattan, NY

DRAWING NUMBER: 136769-FIG1-10TH



NOTES:

1. HORIZONTAL DATUM: COORDINATE SYSTEM BASED UPON PUBLISHED COORDINATES OF EXISTING WELLS AND MH AT CP 802

2. VERTICAL DATUM: BRONX BOROUGH PRESIDENT'S DATUM WHICH IS 2.725 FT ABOVE U.S. COAST AND GEODETIC SURVEY DATUM, SANDY HOOK, NJ (NGVD 29)

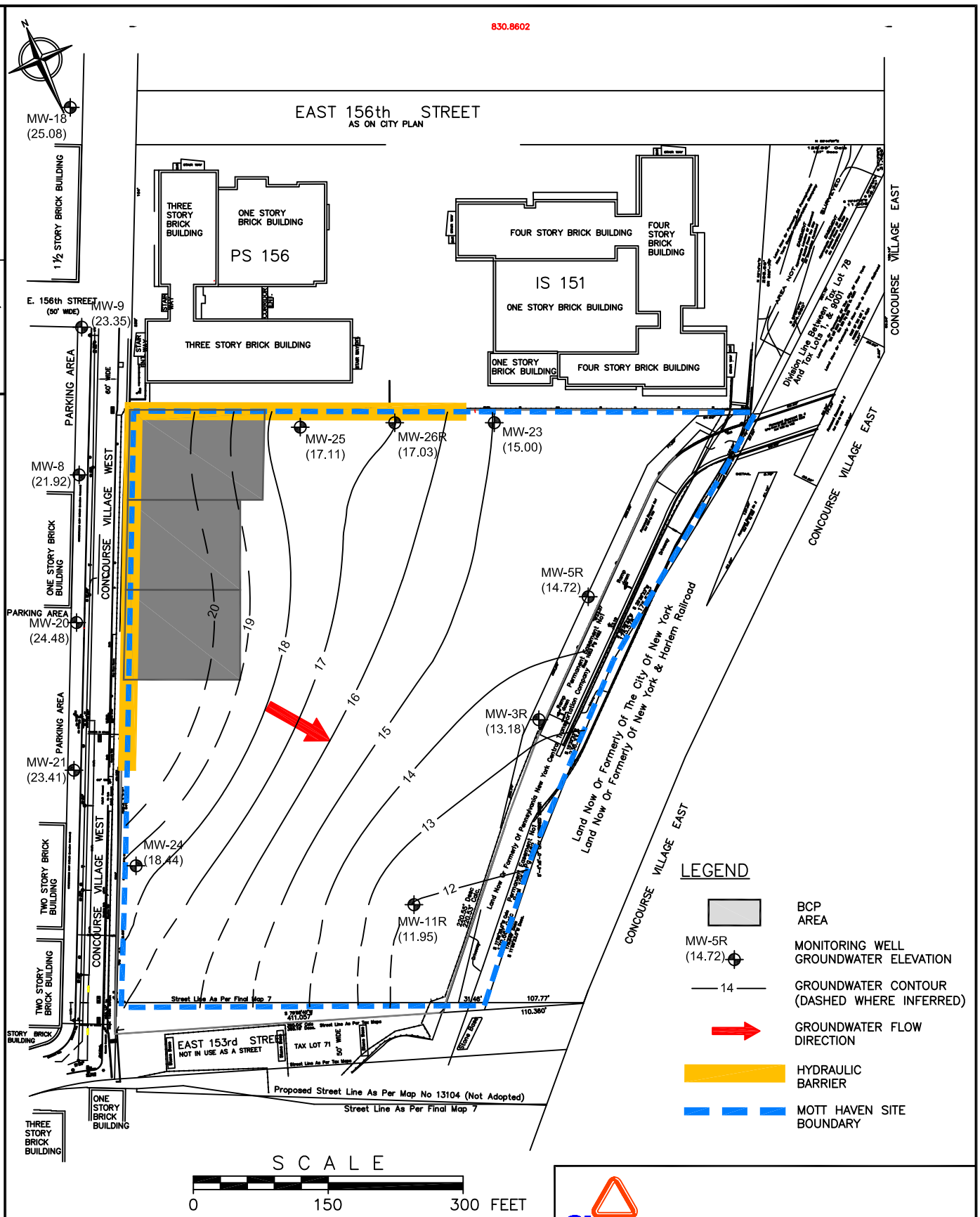
Shaw Environmental, Inc.

DESIGNED BY: C.K.	NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY
DRAWN BY: A.C.	10TH GROUNDWATER MONITORING EVENT WELL LOCATION PLAN (6TH SEMI-ANNUAL SAMPLING EVENT) FORMER METRO NORTH PROPERTY 730 CONCOURSE VILLAGE WEST, BRONX, NY
CHECKED BY: C.K.	

APPROVED BY:	DATE:	SCALE:	DRAWING NO.	FIGURE
J.P.	10/10/11	AS SHOWN	136769-FIG1-10TH	1

File: Z:\PROJ\NYC-SCA\Mott Haven\Groundwater Sampling Events & Well Survey-Post Remediation\10th Report - September 2011\Figures\136769-FIG1 10TH.dwg
Plot Date/Time: Oct 10, 2011 - 1:08pm
Plotted By: jaime.pena

OFFICE: Manhattan, NY
DRAWING NUMBER: 136769-FIG2-10TH



NOTES:

1. HORIZONTAL DATUM: COORDINATE SYSTEM BASED UPON PUBLISHED COORDINATES OF EXISTING WELLS AND MH AT CP 802.

2. VERTICAL DATUM: BRONX BOROUGH PRESIDENT'S DATUM WHICH IS 2.725 FT ABOVE U.S. COAST AND GEODETIC SURVEY DATUM, SANDY HOOK, NJ (NGVD 29).

Shaw Environmental, Inc.

DESIGNED BY: C.K.	NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY
DRAWN BY: J.P.	10TH GROUNDWATER MONITORING EVENT GROUNDWATER CONTOUR MAP SEPTEMBER 17, 2011 FORMER METRO NORTH PROPERTY 730 CONCOURSE VILLAGE WEST, BRONX, NY
CHECKED BY: C.K.	

APPROVED BY:	DATE:	SCALE:	DRAWING NO.	FIGURE
J.P.	10/10/11	AS SHOWN	136769-FIG2-10TH	2

File: Z:\PROJ\NYC-SCA\Mott Haven\Groundwater Sampling Events' & Well Survey-Post Remediation\10th Report - September 2011\Figures\136769-FIG2-10TH V2.dwg
Plot Date/Time: Oct 24, 2011 - 3:11pm
Plotted By: jaime.pena

TABLES

Table 1
New York City School Construction Authority
Metro-North/Mott Haven Site
Bronx, New York
Groundwater Monitoring Well Elevation Data
10th Sampling Event - Post Remediation

Monitoring Well Number	Date	MW Elevation: (BBPD)	DTW: (ft bgs)	DTP: (ft bgs)	DTB: (ft bgs)	Groundwater Elevation: (BBPD)
MW-3R	9/17/2011	17.11	3.93	---	15.2	13.18
MW-5R	9/17/2011	19.63	4.91	---	12.4	14.72
MW-8	9/17/2011	49.43	27.51	---	40.1	21.92
MW-9	9/17/2011	56.11	32.76	---	42.0	23.35
MW-11R	9/17/2011	19.17	7.22	---	18.3	11.95
MW-18	9/17/2011	48.11	23.03	---	32.3	25.08
MW-20	9/17/2011	40.82	16.34	---	27.1	24.48
MW-21	9/17/2011	40.37	16.96	---	25.0	23.41
MW-23	9/17/2011	23.03	8.03	---	14.8	15.00
MW-24	9/17/2011	24.32	5.88	---	13.4	18.44
MW-25	9/17/2011	22.99	5.88	---	9.1	17.11
MW-26R	9/17/2011	22.60	5.57	---	15.2	17.03

Notes:
MW Elevation: Top of PVC elevation in Bronx Borough President's datum (BBPD)
DTW: Depth to Water
DTP: Depth to Product
DTB: Depth to Bottom
BBPD: Bronx Borough President's Datum

Table 2
New York City School Construction Authority
Metro North/Mott Haven Site
Bronx, New York
Summary of Target Compound List VOCs Detected in Groundwater
10th Sampling Event - Post Remediation

SAMPLE ID	SAMPLING DATE	cis-1,2-dichloroethene	Naphthalene	Benzene	m,p-xylene	1,2,4-trimethylbenzene	1,2,4-trichlorobenzene	Cyclohexane	Methylcyclohexane	Tetrachloroethene	Trichloroethene	Methyl tert-butyl Ether	Vinyl Chloride	Acetone	Toluene	Chloroform
NYS Class GA Standard[1]		5.0	10.0 [GV]	1.0	5.0	5.0	5.0	^	^	5.0	5.0	10.0	2.0	50	5.0	7.0
MW-3A	12/6/2007	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/24/2008	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	6/5/2008	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	9/10/2008	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/4/2009	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	9/30/2009	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/10/2010	**5.9**	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.2	1.6	**3.4**	5.0 U	1.0 U	1.0 U
MW-3R[+]	9/25/2010	2.3	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	0.53 J	1.0 U	1.0 U	0.94 J	5.0 U	1.0 U	1.0 U
	3/12/2011	1.0 J	NA	1.0 U	2.0 U	NA	1.1	1.0 U	1.0 U	2.3	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
	9/17/2011	1.6 J	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	3.2 J	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
MW-5A	12/6/2007	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/24/2008	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	6/5/2008	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	9/10/2008	5.0 U	NA	**3.3 J***	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/4/2009	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	9/30/2009	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/10/2010	1.0 U	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
MW-5R[+]	9/25/2010	1.0 U	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
	3/12/2011	1.0 U	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
	9/17/2011	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
MW-11A	12/6/2007	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/24/2008	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	6/5/2008	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	9/10/2008	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/4/2009	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	9/30/2009	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/10/2010	1.0 U	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
MW-11R[+]	9/25/2010	1.0 U	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
	3/12/2011	1.0 U	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
	9/17/2011	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
MW-23	12/6/2007	4.3 J	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/24/2008	**5.6**	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	6/5/2008	**6.5**	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	9/10/2008	**7.1**	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/4/2009	**12**	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	9/30/2009	**13**	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**9.4**	25 U	5.0 U	5.0 U
	3/10/2010	2.6	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	**6.2**	1.0	1.0 U	1.0	5.0 U	1.0 U	1.0 U
	9/25/2010	**8.0**	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**16**	5.0 U	1.0 U	1.0 U
	3/12/2011	2.8	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.4**	5.0 U	1.0 U	1.0 U
	9/17/2011	3.1 J	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**7.8**	25 U	5.0 U	5.0 U

Notes:

General Comments

All results are in micrograms per liter (µg/L).

Only those parameters detected in at least one sample are reported on this table.

Bold face and shaded values indicate an exceedence of the Class GA Groundwater Standard or Guidance Value.

* - Benzene was not detected in the field duplicate sample which was collected from MW-5A (see Appendix B in the 4th Quarter Groundwater Monitoring Report, dated December 17, 2008).

** - MW-24 was not installed until March 2008 due to construction activities in the immediate area of the monitoring well location.

*** - MW-26 was installed and sampled during the first quarterly event and destroyed prior to the second quarterly event. MW-26R was installed prior to the third quarterly sampling event.

**** - MW-25 was covered over sometime after the 5th sampling event. MW-25R was installed on October 3, 2009. MW-25 was later uncovered and is currently in use.

[+] - Original well was decommissioned due to site construction activities. Replacement well was installed in September 2010.

Standards

[1] = NYSDEC TOGS Series 1.1.1, Ambient Groundwater Quality Standards & Guidance Values & Groundwater Effluent Limitations, Revised June 1998, and updates.

^ = No standard or guidance value available.

[GV] = No standard available; value listed is a guidance value.

Laboratory Qualifiers - Organic

NS - Not sampled

NA - Not analyzed

U - Indicates the compound was analyzed for but was not detected.

J - The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).

Table 2
New York City School Construction Authority
Metro North/Mott Haven Site
Bronx, New York
Summary of Target Compound List VOCs Detected in Groundwater
10th Sampling Event - Post Remediation

SAMPLE ID	SAMPLING DATE	cis-1,2-dichloroethene	Naphthalene	Benzene	m,p-xylene	1,2,4-trimethylbenzene	1,2,4-trichlorobenzene	Cyclohexane	Methylcyclohexane	Tetrachloroethene	Trichloroethene	Methyl tert-butyl Ether	Vinyl Chloride	Acetone	Toluene	Chloroform
NYS Class GA Standard[1]		5.0	10.0 [GV]	1.0	5.0	5.0	5.0	^	^	5.0	5.0	10.0	2.0	50	5.0	7.0
MW-24**	12/6/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	5.0 U	NS	NS	NS	NS	NS
	3/24/2008	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	**44**	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	6/5/2008	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	**51**	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	9/10/2008	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	**36**	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/4/2009	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	**33**	5.0 U	4.4 J	5.0 U	25 U	5.0 U	5.0 U
	9/30/2009	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	**50**	5.0 U	2.2 J	5.0 U	25 U	5.0 U	5.0 U
	3/10/2010	1.0 U	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	**43**	1.4	0.68 J	1.0 U	5.0 U	1.0 U	1.0 U
	9/25/2010	1.0 U	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
	3/12/2011	1.0 U	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	**26**	4.7	1.0 U	1.0 U	5.0 U	1.0 U	1.7
	9/17/2011	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	**16**	3.8 J	5.0 U	5.0 U	25 U	5.0 U	5.0 U
MW-25	12/6/2007	5.0 U	**14.0**	**2.3 J**	2.2 J	1.1 J	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/24/2008	5.0 U	NA	**6.6**	4.3 J	NA	5.0 U	8.8	2.8 J	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	6/5/2008	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	9/10/2008	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/4/2009	5.0 U	NA	**2.9 J**	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
MW-25R****	10/3/2009	5.0 U	NA	**5.2**	10.0 U	NA	5.0 U	35	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	14 J	2.4 J	2.4 J
MW-25	3/10/2010	2.3	NA	**2.8**	2.0 U	NA	1.0 U	2.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
	9/25/2010	1.0 U	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
	3/12/2011	1.0	NA	0.66 J	2.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
	9/17/2011	0.98 J	NA	0.76 J	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
MW-26***	12/6/2007	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/24/2008	NS	NS	NS	NS	NS	5.0 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26R	6/5/2008	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	9/10/2008	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	3/4/2009	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U
	9/30/2009	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	9.0 J	5.0 U	5.0 U
	3/10/2010	**5.9**	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.1	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
	9/25/2010	1.0 U	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
	3/12/2011	1.0 U	NA	1.0 U	2.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
	9/17/2011	1.0 J	NA	5.0 U	10.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	7.7 J	5.0 U	5.0 U

Notes:

General Comments

All results are in micrograms per liter (μg/L).

Only those parameters detected in at least one sample are reported on this table.

Bold face and shaded values indicate an exceedence of the Class GA Groundwater Standard or Guidance Value.

* - Benzene was not detected in the field duplicate sample which was collected from MW-5A (see Appendix B in the 4th Quarter Groundwater Monitoring Report, dated December 17, 2008).

** - MW-24 was not installed until March 2008 due to construction activities in the immediate area of the monitoring well location.

*** - MW-26 was installed and sampled during the first quarterly event and destroyed prior to the second quarterly event. MW-26R was installed prior to the third quarterly sampling event.

**** - MW-25 was covered over sometime after the 5th sampling event. MW-25R was installed on October 3, 2009. MW-25 was later uncovered and is currently in use.

[+] - Original well was decommissioned due to site construction activities. Replacement well was installed in September 2010.

Standards

[1] = NYSDEC TOGS Series 1.1.1, Ambient Groundwater Quality Standards & Guidance Values & Groundwater Effluent Limitations, Revised June 1998, and updates.

^ = No standard or guidance value available.

[GV] = No standard available; value listed is a guidance value.

Laboratory Qualifiers - Organic

NS - Not sampled

NA - Not analyzed

U - Indicates the compound was analyzed for but was not detected.

J - The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).

APPENDIX A

FIELD SAMPLING LOGS

Shaw Environmental, Inc.

Shaw Environmental, Inc
1633 Broadway, 30th Floor, New York, NY 10019
Ground Water Sampling Log

Site Name:	**NYC SCA - Mott Haven**		
Project #	**136769**		
Site Address:	**730 Concourse Village West, Bronx, NY**		
Activities Performed:	**Groundwater Sampling**		
Date of Sampling Event:	09.17.2011	**Report Date:**	10.04.2011
Sampled by:	Sanjay Sharma	**Reviewed By:**	Curt Kraemer

Well ID:	**MW - 3R**	**Well Diameter:**	1 1/2"
DTB (ft):	**14.98**	**Measuring Point:**	Top of PVC Riser Pipe
DTW Before Purge (ft):	**3.93**	**Sampling Device:**	Low flow through YSI
DTW After Purge (ft):	**6.61**	**Sampling Time:**	**12:45**
Casing Type:		**Gallons Purged**	**3.05**
PID Reading (ppm):	**8.9**	**Analysis:**	TCL VOCs + MTBE (by EPA 8260)

Time	pH (± 0.1)	Temperature (^{0}C) (± 10%)	Conductivity (mS/cm) (± 3%)	Dissolved O_2 (mg/L) (± 10%)	Turbidity (NTU) (± 10%)	ORP (mV) (± 10)	Comments
12:15	6.86	20.87	0.234	7.18	123.8	-121.08	
12:20	6.88	21.08	0.523	6.94	119.2	-118.2	
12:25	7.02	21.79	0.684	5.89	99.31	-98.7	
12:30	7.16	22.37	0.917	5.77	78.61	-86.26	
12:35	7.19	22.42	1	5.03	64.29	-77.98	
12:40	7.2	22.74	1.002	4.95	53.18	-68.92	
12:45	7.23	22.94	1.006	4.74	48.72	-63.8	

Notes:
Murky water

N/A: Not Applicable
N/M: Not Measured

Shaw Environmental, Inc.

Shaw Environmental, Inc
1633 Broadway, 30th Floor, New York, NY 10019
Ground Water Sampling Log

Site Name:	**NYC SCA - Mott Haven**		
Project #	**136769**		
Site Address:	**730 Concourse Village West, Bronx, NY**		
Activities Performed:	**Groundwater Sampling**		
Date of Sampling Event:	09.17.2011	**Report Date:**	10.04.2011
Sampled by:	Sanjay Sharma	**Reviewed By:**	Curt Kraemer

Well ID:	**MW - 5R**	**Well Diameter:**	1 1/2"
DTB (ft):	**15.05**	**Measuring Point:**	Top of PVC Riser Pipe
DTW Before Purge (ft):	**4.91**	**Sampling Device:**	Low flow through YSI
DTW After Purge (ft):	**7.97**	**Sampling Time:**	**12:00**
Casing Type:		**Gallons Purged**	**2.80**
PID Reading (ppm):	**2.3**	**Analysis:**	TCL VOCs + MTBE (by EPA 8260)

Time	pH (± 0.1)	Temperature (^{0}C) (± 10%)	Conductivity (mS/cm) (± 3%)	Dissolved O_2 (mg/L) (± 10%)	Turbidity (NTU) (± 10%)	ORP (mV) (± 10)	Comments
11:30	7.18	20.19	1.297	11.91	78.28	23.7	
11:35	7.28	20.37	1.186	9.07	63.91	1.96	
11:40	7.38	20.46	1.083	9.18	52.1	-21.64	
11:45	7.35	20.76	0.969	9	44.98	-29.56	
11:50	7.42	21.07	0.764	8.56	36.21	-38.31	
11:55	7.87	21.69	0.603	8.27	28.7	-46.33	
12:00	7.86	21.92	0.418	8.09	21.2	-49.3	

Notes:
Matrix Spike and Matrix Spike Duplicate samples were also collected.
Clear water

N/A: Not Applicable
N/M: Not Measured

Shaw Environmental, Inc.

Shaw Environmental, Inc
1633 Broadway, 30th Floor, New York, NY 10019
Ground Water Sampling Log

Site Name:	**NYC SCA - Mott Haven**		
Project #	**136769**		
Site Address:	**730 Concourse Village West, Bronx, NY**		
Activities Performed:	**Groundwater Sampling**		
Date of Sampling Event:	09.17.2011	**Report Date:**	10.04.2011
Sampled by:	Sanjay Sharma	**Reviewed By:**	Curt Kraemer

Well ID:	**MW - 11R**	**Well Diameter:**	1 1/2"
DTB (ft):	**18.03**	**Measuring Point:**	Top of PVC Riser Pipe
DTW Before Purge (ft):	**7.22**	**Sampling Device:**	Low flow through YSI
DTW After Purge (ft):	**9.56**	**Sampling Time:**	**13:30**
Casing Type:		**Gallons Purged**	**2.98**
PID Reading (ppm):	**1.5**	**Analysis:**	TCL VOCs + MTBE (by EPA 8260)

Time	pH (± 0.1)	Temperature (^{0}C) (± 10%)	Conductivity (mS/cm) (± 3%)	Dissolved O_2 (mg/L) (± 10%)	Turbidity (NTU) (± 10%)	ORP (mV) (± 10)	Comments
13:00	6.74	19.91	1.876	4.97	19.1	32	
13:05	6.74	19.88	1.769	5.23	17.6	27	
13:10	6.99	20.04	1.568	5.81	17	25	
13:15	7.17	20.51	1.192	6.17	15.7	26	
13:20	7.26	20.33	0.945	7.75	14.8	29	
13:25	7.59	21.24	0.886	8.79	13.6	31	
13:30	7.63	20.32	0.862	9.2	14.3	18	

Notes:	
Clear water	

N/A: Not Applicable
N/M: Not Measured

Shaw Environmental, Inc.

Shaw Environmental, Inc
1633 Broadway, 30th Floor, New York, NY 10019
Ground Water Sampling Log

Site Name:	**NYC SCA - Mott Haven**		
Project #	**136769**		
Site Address:	**730 Concourse Village West, Bronx, NY**		
Activities Performed:	**Groundwater Sampling**		
Date of Sampling Event:	09.17.2011	**Report Date:**	10.04.2011
Sampled by:	Sanjay Sharma	**Reviewed By:**	Curt Kraemer

Well ID:	**MW - 23**	**Well Diameter:**	2"
DTB (ft):	**16.86**	**Measuring Point:**	Top of PVC Riser Pipe
DTW Before Purge (ft):	**8.03**	**Sampling Device:**	Low flow through YSI
DTW After Purge (ft):	**10.62**	**Sampling Time:**	**11:15**
Casing Type:		**Gallons Purged**	**4.32**
PID Reading (ppm):	**5.6**	**Analysis:**	TCL VOCs + MTBE (by EPA 8260)

Time	pH (± 0.1)	Temperature (^{0}C) (± 10%)	Conductivity (mS/cm) (± 3%)	Dissolved O_2 (mg/L) (± 10%)	Turbidity (NTU) (± 10%)	ORP (mV) (± 10)	Comments
10:45	7.32	21.99	1.492	12.76	51.2	-67.2	
10:50	7.27	21.65	1.173	10.45	38.4	-59.35	
10:55	7.2	20.61	1.002	9.27	33.9	-51.78	
11:00	7.17	20.32	0.978	7.29	29.1	-45	
11:05	7.14	20.37	0.876	6.88	20.18	-38.91	
11:10	7.12	20.31	0.726	6.27	19.8	-27.21	
11:15	7.23	20.32	0.701	5.98	19.1	-36.7	

Notes:	Murky water
Field Duplicate collected	

N/A: Not Applicable
N/M: Not Measured

Shaw Environmental, Inc.

Shaw Environmental, Inc
1633 Broadway, 30th Floor, New York, NY 10019
Ground Water Sampling Log

Site Name:	**NYC SCA - Mott Haven**		
Project #	**136769**		
Site Address:	**730 Concourse Village West, Bronx, NY**		
Activities Performed:	**Groundwater Sampling**		
Date of Sampling Event:	09.17.2011	**Report Date:**	10.04.2011
Sampled by:	Sanjay Sharma	**Reviewed By:**	Curt Kraemer

Well ID:	**MW - 24**	**Well Diameter:**	1 "
DTB (ft):	**15.32**	**Measuring Point:**	Top of PVC Riser Pipe
DTW Before Purge (ft):	**5.88**	**Sampling Device:**	Low flow through YSI
DTW After Purge (ft):	**7.92**	**Sampling Time:**	**14:15**
Casing Type:		**Gallons Purged**	**1.16**
PID Reading (ppm):	**0.6**	**Analysis:**	TCL VOCs + MTBE (by EPA 8260)

Time	pH (± 0.1)	Temperature (^{0}C) (± 10%)	Conductivity (mS/cm) (± 3%)	Dissolved O_2 (mg/L) (± 10%)	Turbidity (NTU) (± 10%)	ORP (mV) (± 10)	Comments
13:45	5.99	21.99	2.731	5.27	18.67	76.8	
13:50	6.12	21.74	2.086	5.36	13.47	54.32	
13:55	6.06	20.76	1.985	5.98	11.6	44.96	
14:00	6.21	19.76	1.238	6.23	7.9	34.21	
14:05	6.31	19.12	1.091	6.78	3.5	29.36	
14:10	6.84	18.78	0.978	7.02	2.4	11.22	
14:15	7.75	18.59	0.954	7.07	2.20	8.20	

Notes:
Clear water

N/A: Not Applicable
N/M: Not Measured

Shaw Environmental, Inc.

Shaw Environmental, Inc
1633 Broadway, 30th Floor, New York, NY 10019
Ground Water Sampling Log

Site Name:	**NYC SCA - Mott Haven**		
Project #	**136769**		
Site Address:	**730 Concourse Village West, Bronx, NY**		
Activities Performed:	**Groundwater Sampling**		
Date of Sampling Event:	09.17.2011	**Report Date:**	10.04.2011
Sampled by:	Sanjay Sharma	**Reviewed By:**	Curt Kraemer

Well ID:	**MW - 25**	**Well Diameter:**	2"
DTB (ft):	**9.82**	**Measuring Point:**	Top of PVC Riser Pipe
DTW Before Purge (ft):	**5.88**	**Sampling Device:**	Low flow through YSI
DTW After Purge (ft):	**5.96**	**Sampling Time:**	**9:45**
Casing Type:		**Gallons Purged**	**1.93**
PID Reading (ppm):	**0**	**Analysis:**	TCL VOCs + MTBE (by EPA 8260)

Time	pH (± 0.1)	Temperature (^{0}C) (± 10%)	Conductivity (mS/cm) (± 3%)	Dissolved O_2 (mg/L) (± 10%)	Turbidity (NTU) (± 10%)	ORP (mV) (± 10)	Comments
9:15	7.22	16.87	1.51	5.27	66.9	-128	
9:20	7.03	17.12	1.472	5.36	56.2	-100	
9:25	6.98	17.56	1.473	5.98	43.6	-98	
9:30	6.93	17.89	1.342	6.23	38.9	-82.3	
9:35	6.75	17.9	1.323	6.41	22.67	-88	
9:40	6.71	17.91	1.331	6.43	20.46	-86	
9:45	6.65	17.93	1.336	6.47	16.8	-86.2	

Notes:	Murky water
Collected MS and MSD samples too	

N/A: Not Applicable
N/M: Not Measured

Shaw Environmental, Inc.

Shaw Environmental, Inc
1633 Broadway, 30th Floor, New York, NY 10019
Ground Water Sampling Log

Site Name:	**NYC SCA - Mott Haven**		
Project #	**136769**		
Site Address:	**730 Concourse Village West, Bronx, NY**		
Activities Performed:	**Groundwater Sampling**		
Date of Sampling Event:	09.17.2011	**Report Date:**	10.04.2011
Sampled by:	Sanjay Sharma	**Reviewed By:**	Curt Kraemer

Well ID:	**MW - 26R**	**Well Diameter:**	1 1/2"
DTB (ft):	**17.55**	**Measuring Point:**	Top of PVC Riser Pipe
DTW Before Purge (ft):	**5.57**	**Sampling Device:**	Low flow through YSI
DTW After Purge (ft):	**7.34**	**Sampling Time:**	**10:30**
Casing Type:		**Gallons Purged**	**3.31**
PID Reading (ppm):	**0**	**Analysis:**	TCL VOCs + MTBE (by EPA 8260)

Time	pH (± 0.1)	Temperature (^{0}C) (± 10%)	Conductivity (mS/cm) (± 3%)	Dissolved O_2 (mg/L) (± 10%)	Turbidity (NTU) (± 10%)	ORP (mV) (± 10)	Comments
10:00	7.75	17.12	5.759	8.80	110.60	-110.30	
10:05	7.59	17.56	4.869	8.21	98.64	-103.20	
10:10	7.48	17.89	3.247	7.98	85.23	-99.25	
10:15	7.34	18	2.159	7.34	79.85	-86.54	
10:20	7.29	17.92	1.897	6.64	53.20	-79.37	
10:25	6.96	17.88	1.265	6.53	33.72	-70.83	
10:30	6.88	17.88	1.006	6.26	28.65	-67.70	

Notes:	Clear water

N/A: Not Applicable
N/M: Not Measured

APPENDIX B

LABORATORY ANALYTICAL DATA

CHEMTECH

DATA FOR

VOLATILE ORGANICS

PROJECT NAME : MOTTHAVEN

SHAW E & I, INC.

1633 Broadway

New York, NY - 10019

Phone No: 2122906000

ORDER ID : C3757

ATTENTION : Jaime Pena

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Date : 09/27/2011

Dear Jaime Pena,

11 water samples for the **Motthaven** project were received on **09/20/2011.** The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

The invoice for this workorder is also attached to the e-mail.

Regards,

Elizabeth Griffiths

240-215-4321

egriffiths@chemtech.net

CHEMTECH
CHAIN OF CUSTODY RECORD

B1109045

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

01/02

CHEMTECH PROJECT NO.
QUOTE NO.
COC Number 088418

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: Shaw E&I Inc
ADDRESS: 1633 Broadway 30 Fl.
CITY: New York STATE: NY ZIP: 10019
ATTENTION: Jaime / Cust
PHONE: 212 2906031 FAX: 212 2906001

CLIENT PROJECT INFORMATION

PROJECT NAME: NYCSCA Mott Haven
PROJECT NO. 136769 LOCATION: Bronx
PROJECT MANAGER: Jaime
e-mail:
PHONE: Same FAX:

CLIENT BILLING INFORMATION

BILL TO: Shaw PO#:
ADDRESS: Same
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: NYCSCA DAYS *
HARD COPY: STD DAYS *
EDD: DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other
☐ EDD FORMAT

ANALYSIS

VOCs - TCL (EPA-8260)

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (A)	2	3	4	5	6	7	8	9	COMMENTS
1.	MW-25	GW		X	9/17/11	1145	2	X									
2.	MW-26R					1030											NO
3.	MW-23					1115											TICKS
4.	MW-5R					1200											Please
5.	MW-3R					1245											
6.	MW-11R					1330											
7.	MW-24					1415											
8.	MS - MW-25					945											
9.	MSD - MW-25					945											
10.	DUP. —					—											

Specify Preservatives: A - HCl B - HNO_3 C - H_2SO_4 D - NaOH E - ICE F - Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	9/19/11 1300	1. [signature]
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3. UPS	DATE/TIME: 9:50 9/20/11	RECEIVED FOR LAB BY: 3. [signature]

Conditions of bottles or coolers at receipt: ☒ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 4°C
Ice in Cooler?: yes

Page 01 of 02

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☒ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Cont'd. 088419

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

Cont'd 088418
02/02

CHEMTECH PROJECT NO.
QUOTE NO.
COC Number 088419

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: Same
ADDRESS:
CITY: STATE: ZIP:
ATTENTION:
PHONE: FAX:

088418

CLIENT PROJECT INFORMATION

PROJECT NAME: Same
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

088418

CLIENT BILLING INFORMATION

BILL TO: Same PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

088418

DATA TURNAROUND INFORMATION

FAX: NYC SCA DAYS *
HARD COPY: DAYS *
EDD: STD DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other
☐ EDD FORMAT

ANALYSIS

VOCs - TCL EPA 8260

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (A)	2	3	4	5	6	7	8	9	COMMENTS
1.	T.B.	AQ		X		—	02	X									
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

NO PICKLES

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	9/19/11 1:30 PM	1.
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3. UPS	DATE/TIME: 9/20/11 9:50	RECEIVED FOR LAB BY: 3.

Conditions of bottles or coolers at receipt: ☒ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 4°C
Ice in Cooler?: YES

Page 02 of 02

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	MW-25	SDG No.:	C3757
Lab Sample ID:	C3757-01	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD034602.D	1		09/20/11	VD092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.55	U	0.55	5	ug/L
74-87-3	Chloromethane	0.54	U	0.54	5	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	5	ug/L
74-83-9	Bromomethane	0.62	U	0.62	5	ug/L
75-00-3	Chloroethane	0.66	U	0.66	5	ug/L
75-69-4	Trichlorofluoromethane	0.35	U	0.35	5	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	U	0.45	5	ug/L
75-35-4	1,1-Dichloroethene	0.47	U	0.47	5	ug/L
67-64-1	Acetone	2.8	U	2.8	25	ug/L
75-15-0	Carbon Disulfide	0.54	U	0.54	5	ug/L
1634-04-4	Methyl tert-butyl Ether	0.35	U	0.35	5	ug/L
79-20-9	Methyl Acetate	0.83	U	0.83	5	ug/L
75-09-2	Methylene Chloride	0.41	U	0.41	5	ug/L
156-60-5	trans-1,2-Dichloroethene	0.41	U	0.41	5	ug/L
75-34-3	1,1-Dichloroethane	0.36	U	0.36	5	ug/L
110-82-7	Cyclohexane	0.55	U	0.55	5	ug/L
78-93-3	2-Butanone	1.3	U	1.3	25	ug/L
56-23-5	Carbon Tetrachloride	0.62	U	0.62	5	ug/L
156-59-2	cis-1,2-Dichloroethene	0.98	J	0.35	5	ug/L
67-66-3	Chloroform	0.34	U	0.34	5	ug/L
71-55-6	1,1,1-Trichloroethane	0.4	U	0.4	5	ug/L
108-87-2	Methylcyclohexane	0.68	U	0.68	5	ug/L
71-43-2	Benzene	0.76	J	0.32	5	ug/L
107-06-2	1,2-Dichloroethane	0.48	U	0.48	5	ug/L
79-01-6	Trichloroethene	0.28	U	0.28	5	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5	ug/L
75-27-4	Bromodichloromethane	0.36	U	0.36	5	ug/L
108-10-1	4-Methyl-2-Pentanone	2.1	U	2.1	25	ug/L
108-88-3	Toluene	0.37	U	0.37	5	ug/L
10061-02-6	t-1,3-Dichloropropene	0.29	U	0.29	5	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.31	U	0.31	5	ug/L

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	MW-25	SDG No.:	C3757
Lab Sample ID:	C3757-01	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD034602.D	1		09/20/11	VD092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.38	U	0.38	5	ug/L
591-78-6	2-Hexanone	1.9	U	1.9	25	ug/L
124-48-1	Dibromochloromethane	0.52	U	0.52	5	ug/L
106-93-4	1,2-Dibromoethane	0.41	U	0.41	5	ug/L
127-18-4	Tetrachloroethene	0.27	U	0.27	5	ug/L
108-90-7	Chlorobenzene	0.49	U	0.49	5	ug/L
100-41-4	Ethyl Benzene	0.53	U	0.53	5	ug/L
179601-23-1	m/p-Xylenes	0.95	U	0.95	10	ug/L
95-47-6	o-Xylene	0.43	U	0.43	5	ug/L
100-42-5	Styrene	0.36	U	0.36	5	ug/L
75-25-2	Bromoform	0.47	U	0.47	5	ug/L
98-82-8	Isopropylbenzene	0.45	U	0.45	5	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.31	U	0.31	5	ug/L
541-73-1	1,3-Dichlorobenzene	0.43	U	0.43	5	ug/L
106-46-7	1,4-Dichlorobenzene	0.32	U	0.32	5	ug/L
95-50-1	1,2-Dichlorobenzene	0.45	U	0.45	5	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.62	U	0.62	5	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	40.5		61 - 141	81%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		69 - 133	105%	SPK: 50
2037-26-5	Toluene-d8	46.6		65 - 126	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		58 - 135	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	2374370	3.36			
540-36-3	1,4-Difluorobenzene	2967150	3.82			
3114-55-4	Chlorobenzene-d5	4643540	6.22			
3855-82-1	1,4-Dichlorobenzene-d4	2770400	8.15			

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	MW-26R	SDG No.:	C3757
Lab Sample ID:	C3757-04	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043097.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.55	U	0.55	5	ug/L
74-87-3	Chloromethane	0.54	U	0.54	5	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	5	ug/L
74-83-9	Bromomethane	0.62	U	0.62	5	ug/L
75-00-3	Chloroethane	0.66	U	0.66	5	ug/L
75-69-4	Trichlorofluoromethane	0.35	U	0.35	5	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	U	0.45	5	ug/L
75-35-4	1,1-Dichloroethene	0.47	U	0.47	5	ug/L
67-64-1	Acetone	7.7	J	2.8	25	ug/L
75-15-0	Carbon Disulfide	0.54	U	0.54	5	ug/L
1634-04-4	Methyl tert-butyl Ether	0.35	U	0.35	5	ug/L
79-20-9	Methyl Acetate	0.83	U	0.83	5	ug/L
75-09-2	Methylene Chloride	0.41	U	0.41	5	ug/L
156-60-5	trans-1,2-Dichloroethene	0.41	U	0.41	5	ug/L
75-34-3	1,1-Dichloroethane	0.36	U	0.36	5	ug/L
110-82-7	Cyclohexane	0.55	U	0.55	5	ug/L
78-93-3	2-Butanone	1.3	U	1.3	25	ug/L
56-23-5	Carbon Tetrachloride	0.62	U	0.62	5	ug/L
156-59-2	cis-1,2-Dichloroethene	1	J	0.35	5	ug/L
67-66-3	Chloroform	0.34	U	0.34	5	ug/L
71-55-6	1,1,1-Trichloroethane	0.4	U	0.4	5	ug/L
108-87-2	Methylcyclohexane	0.68	U	0.68	5	ug/L
71-43-2	Benzene	0.32	U	0.32	5	ug/L
107-06-2	1,2-Dichloroethane	0.48	U	0.48	5	ug/L
79-01-6	Trichloroethene	0.28	U	0.28	5	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5	ug/L
75-27-4	Bromodichloromethane	0.36	U	0.36	5	ug/L
108-10-1	4-Methyl-2-Pentanone	2.1	U	2.1	25	ug/L
108-88-3	Toluene	0.37	U	0.37	5	ug/L
10061-02-6	t-1,3-Dichloropropene	0.29	U	0.29	5	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.31	U	0.31	5	ug/L

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	MW-26R	SDG No.:	C3757
Lab Sample ID:	C3757-04	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043097.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.38	U	0.38	5	ug/L
591-78-6	2-Hexanone	1.9	U	1.9	25	ug/L
124-48-1	Dibromochloromethane	0.52	U	0.52	5	ug/L
106-93-4	1,2-Dibromoethane	0.41	U	0.41	5	ug/L
127-18-4	Tetrachloroethene	0.27	U	0.27	5	ug/L
108-90-7	Chlorobenzene	0.49	U	0.49	5	ug/L
100-41-4	Ethyl Benzene	0.53	U	0.53	5	ug/L
179601-23-1	m/p-Xylenes	0.95	U	0.95	10	ug/L
95-47-6	o-Xylene	0.43	U	0.43	5	ug/L
100-42-5	Styrene	0.36	U	0.36	5	ug/L
75-25-2	Bromoform	0.47	U	0.47	5	ug/L
98-82-8	Isopropylbenzene	0.45	U	0.45	5	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.31	U	0.31	5	ug/L
541-73-1	1,3-Dichlorobenzene	0.43	U	0.43	5	ug/L
106-46-7	1,4-Dichlorobenzene	0.32	U	0.32	5	ug/L
95-50-1	1,2-Dichlorobenzene	0.45	U	0.45	5	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.62	U	0.62	5	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.3		61 - 141	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		69 - 133	99%	SPK: 50
2037-26-5	Toluene-d8	56		65 - 126	112%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		58 - 135	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	645806	3.81			
540-36-3	1,4-Difluorobenzene	1097420	4.31			
3114-55-4	Chlorobenzene-d5	949867	7.57			
3855-82-1	1,4-Dichlorobenzene-d4	400235	10.14			

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	MW-23	SDG No.:	C3757
Lab Sample ID:	C3757-05	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043098.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.55	U	0.55	5	ug/L
74-87-3	Chloromethane	0.54	U	0.54	5	ug/L
75-01-4	Vinyl Chloride	7.8		0.34	5	ug/L
74-83-9	Bromomethane	0.62	U	0.62	5	ug/L
75-00-3	Chloroethane	0.66	U	0.66	5	ug/L
75-69-4	Trichlorofluoromethane	0.35	U	0.35	5	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	U	0.45	5	ug/L
75-35-4	1,1-Dichloroethene	0.47	U	0.47	5	ug/L
67-64-1	Acetone	2.8	U	2.8	25	ug/L
75-15-0	Carbon Disulfide	0.54	U	0.54	5	ug/L
1634-04-4	Methyl tert-butyl Ether	0.35	U	0.35	5	ug/L
79-20-9	Methyl Acetate	0.83	U	0.83	5	ug/L
75-09-2	Methylene Chloride	0.41	U	0.41	5	ug/L
156-60-5	trans-1,2-Dichloroethene	0.41	U	0.41	5	ug/L
75-34-3	1,1-Dichloroethane	0.36	U	0.36	5	ug/L
110-82-7	Cyclohexane	0.55	U	0.55	5	ug/L
78-93-3	2-Butanone	1.3	U	1.3	25	ug/L
56-23-5	Carbon Tetrachloride	0.62	U	0.62	5	ug/L
156-59-2	cis-1,2-Dichloroethene	3.1	J	0.35	5	ug/L
67-66-3	Chloroform	0.34	U	0.34	5	ug/L
71-55-6	1,1,1-Trichloroethane	0.4	U	0.4	5	ug/L
108-87-2	Methylcyclohexane	0.68	U	0.68	5	ug/L
71-43-2	Benzene	0.32	U	0.32	5	ug/L
107-06-2	1,2-Dichloroethane	0.48	U	0.48	5	ug/L
79-01-6	Trichloroethene	0.28	U	0.28	5	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5	ug/L
75-27-4	Bromodichloromethane	0.36	U	0.36	5	ug/L
108-10-1	4-Methyl-2-Pentanone	2.1	U	2.1	25	ug/L
108-88-3	Toluene	0.37	U	0.37	5	ug/L
10061-02-6	t-1,3-Dichloropropene	0.29	U	0.29	5	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.31	U	0.31	5	ug/L

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	MW-23	SDG No.:	C3757
Lab Sample ID:	C3757-05	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043098.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.38	U	0.38	5	ug/L
591-78-6	2-Hexanone	1.9	U	1.9	25	ug/L
124-48-1	Dibromochloromethane	0.52	U	0.52	5	ug/L
106-93-4	1,2-Dibromoethane	0.41	U	0.41	5	ug/L
127-18-4	Tetrachloroethene	0.27	U	0.27	5	ug/L
108-90-7	Chlorobenzene	0.49	U	0.49	5	ug/L
100-41-4	Ethyl Benzene	0.53	U	0.53	5	ug/L
179601-23-1	m/p-Xylenes	0.95	U	0.95	10	ug/L
95-47-6	o-Xylene	0.43	U	0.43	5	ug/L
100-42-5	Styrene	0.36	U	0.36	5	ug/L
75-25-2	Bromoform	0.47	U	0.47	5	ug/L
98-82-8	Isopropylbenzene	0.45	U	0.45	5	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.31	U	0.31	5	ug/L
541-73-1	1,3-Dichlorobenzene	0.43	U	0.43	5	ug/L
106-46-7	1,4-Dichlorobenzene	0.32	U	0.32	5	ug/L
95-50-1	1,2-Dichlorobenzene	0.45	U	0.45	5	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.62	U	0.62	5	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.9		61 - 141	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		69 - 133	101%	SPK: 50
2037-26-5	Toluene-d8	59.8		65 - 126	120%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.7		58 - 135	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	643492	3.81			
540-36-3	1,4-Difluorobenzene	1089180	4.31			
3114-55-4	Chlorobenzene-d5	945748	7.58			
3855-82-1	1,4-Dichlorobenzene-d4	383713	10.14			

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	MW-5R	SDG No.:	C3757
Lab Sample ID:	C3757-06	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043099.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.55	U	0.55	5	ug/L
74-87-3	Chloromethane	0.54	U	0.54	5	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	5	ug/L
74-83-9	Bromomethane	0.62	U	0.62	5	ug/L
75-00-3	Chloroethane	0.66	U	0.66	5	ug/L
75-69-4	Trichlorofluoromethane	0.35	U	0.35	5	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	U	0.45	5	ug/L
75-35-4	1,1-Dichloroethene	0.47	U	0.47	5	ug/L
67-64-1	Acetone	2.8	U	2.8	25	ug/L
75-15-0	Carbon Disulfide	0.54	U	0.54	5	ug/L
1634-04-4	Methyl tert-butyl Ether	0.35	U	0.35	5	ug/L
79-20-9	Methyl Acetate	0.83	U	0.83	5	ug/L
75-09-2	Methylene Chloride	0.41	U	0.41	5	ug/L
156-60-5	trans-1,2-Dichloroethene	0.41	U	0.41	5	ug/L
75-34-3	1,1-Dichloroethane	0.36	U	0.36	5	ug/L
110-82-7	Cyclohexane	0.55	U	0.55	5	ug/L
78-93-3	2-Butanone	1.3	U	1.3	25	ug/L
56-23-5	Carbon Tetrachloride	0.62	U	0.62	5	ug/L
156-59-2	cis-1,2-Dichloroethene	0.35	U	0.35	5	ug/L
67-66-3	Chloroform	0.34	U	0.34	5	ug/L
71-55-6	1,1,1-Trichloroethane	0.4	U	0.4	5	ug/L
108-87-2	Methylcyclohexane	0.68	U	0.68	5	ug/L
71-43-2	Benzene	0.32	U	0.32	5	ug/L
107-06-2	1,2-Dichloroethane	0.48	U	0.48	5	ug/L
79-01-6	Trichloroethene	0.28	U	0.28	5	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5	ug/L
75-27-4	Bromodichloromethane	0.36	U	0.36	5	ug/L
108-10-1	4-Methyl-2-Pentanone	2.1	U	2.1	25	ug/L
108-88-3	Toluene	0.37	U	0.37	5	ug/L
10061-02-6	t-1,3-Dichloropropene	0.29	U	0.29	5	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.31	U	0.31	5	ug/L

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	MW-5R	SDG No.:	C3757
Lab Sample ID:	C3757-06	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043099.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.38	U	0.38	5	ug/L
591-78-6	2-Hexanone	1.9	U	1.9	25	ug/L
124-48-1	Dibromochloromethane	0.52	U	0.52	5	ug/L
106-93-4	1,2-Dibromoethane	0.41	U	0.41	5	ug/L
127-18-4	Tetrachloroethene	0.27	U	0.27	5	ug/L
108-90-7	Chlorobenzene	0.49	U	0.49	5	ug/L
100-41-4	Ethyl Benzene	0.53	U	0.53	5	ug/L
179601-23-1	m/p-Xylenes	0.95	U	0.95	10	ug/L
95-47-6	o-Xylene	0.43	U	0.43	5	ug/L
100-42-5	Styrene	0.36	U	0.36	5	ug/L
75-25-2	Bromoform	0.47	U	0.47	5	ug/L
98-82-8	Isopropylbenzene	0.45	U	0.45	5	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.31	U	0.31	5	ug/L
541-73-1	1,3-Dichlorobenzene	0.43	U	0.43	5	ug/L
106-46-7	1,4-Dichlorobenzene	0.32	U	0.32	5	ug/L
95-50-1	1,2-Dichlorobenzene	0.45	U	0.45	5	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.62	U	0.62	5	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		61 - 141	101%	SPK: 50
1868-53-7	Dibromofluoromethane	51		69 - 133	102%	SPK: 50
2037-26-5	Toluene-d8	57.4		65 - 126	115%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		58 - 135	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	625527	3.82			
540-36-3	1,4-Difluorobenzene	1081920	4.31			
3114-55-4	Chlorobenzene-d5	916578	7.58			
3855-82-1	1,4-Dichlorobenzene-d4	381099	10.14			

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	MW-3R	SDG No.:	C3757
Lab Sample ID:	C3757-07	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043100.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.55	U	0.55	5	ug/L
74-87-3	Chloromethane	0.54	U	0.54	5	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	5	ug/L
74-83-9	Bromomethane	0.62	U	0.62	5	ug/L
75-00-3	Chloroethane	0.66	U	0.66	5	ug/L
75-69-4	Trichlorofluoromethane	0.35	U	0.35	5	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	U	0.45	5	ug/L
75-35-4	1,1-Dichloroethene	0.47	U	0.47	5	ug/L
67-64-1	Acetone	2.8	U	2.8	25	ug/L
75-15-0	Carbon Disulfide	0.54	U	0.54	5	ug/L
1634-04-4	Methyl tert-butyl Ether	0.35	U	0.35	5	ug/L
79-20-9	Methyl Acetate	0.83	U	0.83	5	ug/L
75-09-2	Methylene Chloride	0.41	U	0.41	5	ug/L
156-60-5	trans-1,2-Dichloroethene	0.41	U	0.41	5	ug/L
75-34-3	1,1-Dichloroethane	0.36	U	0.36	5	ug/L
110-82-7	Cyclohexane	0.55	U	0.55	5	ug/L
78-93-3	2-Butanone	1.3	U	1.3	25	ug/L
56-23-5	Carbon Tetrachloride	0.62	U	0.62	5	ug/L
156-59-2	cis-1,2-Dichloroethene	1.6	J	0.35	5	ug/L
67-66-3	Chloroform	0.34	U	0.34	5	ug/L
71-55-6	1,1,1-Trichloroethane	0.4	U	0.4	5	ug/L
108-87-2	Methylcyclohexane	0.68	U	0.68	5	ug/L
71-43-2	Benzene	0.32	U	0.32	5	ug/L
107-06-2	1,2-Dichloroethane	0.48	U	0.48	5	ug/L
79-01-6	Trichloroethene	0.28	U	0.28	5	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5	ug/L
75-27-4	Bromodichloromethane	0.36	U	0.36	5	ug/L
108-10-1	4-Methyl-2-Pentanone	2.1	U	2.1	25	ug/L
108-88-3	Toluene	0.37	U	0.37	5	ug/L
10061-02-6	t-1,3-Dichloropropene	0.29	U	0.29	5	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.31	U	0.31	5	ug/L

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	MW-3R	SDG No.:	C3757
Lab Sample ID:	C3757-07	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043100.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.38	U	0.38	5	ug/L
591-78-6	2-Hexanone	1.9	U	1.9	25	ug/L
124-48-1	Dibromochloromethane	0.52	U	0.52	5	ug/L
106-93-4	1,2-Dibromoethane	0.41	U	0.41	5	ug/L
127-18-4	Tetrachloroethene	3.2	J	0.27	5	ug/L
108-90-7	Chlorobenzene	0.49	U	0.49	5	ug/L
100-41-4	Ethyl Benzene	0.53	U	0.53	5	ug/L
179601-23-1	m/p-Xylenes	0.95	U	0.95	10	ug/L
95-47-6	o-Xylene	0.43	U	0.43	5	ug/L
100-42-5	Styrene	0.36	U	0.36	5	ug/L
75-25-2	Bromoform	0.47	U	0.47	5	ug/L
98-82-8	Isopropylbenzene	0.45	U	0.45	5	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.31	U	0.31	5	ug/L
541-73-1	1,3-Dichlorobenzene	0.43	U	0.43	5	ug/L
106-46-7	1,4-Dichlorobenzene	0.32	U	0.32	5	ug/L
95-50-1	1,2-Dichlorobenzene	0.45	U	0.45	5	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.62	U	0.62	5	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.8		61 - 141	100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		69 - 133	102%	SPK: 50
2037-26-5	Toluene-d8	58.2		65 - 126	116%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.4		58 - 135	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	623952	3.82			
540-36-3	1,4-Difluorobenzene	1038280	4.31			
3114-55-4	Chlorobenzene-d5	953870	7.58			
3855-82-1	1,4-Dichlorobenzene-d4	375317	10.14			

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	MW-11R	SDG No.:	C3757
Lab Sample ID:	C3757-08	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043101.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.55	U	0.55	5	ug/L
74-87-3	Chloromethane	0.54	U	0.54	5	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	5	ug/L
74-83-9	Bromomethane	0.62	U	0.62	5	ug/L
75-00-3	Chloroethane	0.66	U	0.66	5	ug/L
75-69-4	Trichlorofluoromethane	0.35	U	0.35	5	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	U	0.45	5	ug/L
75-35-4	1,1-Dichloroethene	0.47	U	0.47	5	ug/L
67-64-1	Acetone	2.8	U	2.8	25	ug/L
75-15-0	Carbon Disulfide	0.54	U	0.54	5	ug/L
1634-04-4	Methyl tert-butyl Ether	0.35	U	0.35	5	ug/L
79-20-9	Methyl Acetate	0.83	U	0.83	5	ug/L
75-09-2	Methylene Chloride	0.41	U	0.41	5	ug/L
156-60-5	trans-1,2-Dichloroethene	0.41	U	0.41	5	ug/L
75-34-3	1,1-Dichloroethane	0.36	U	0.36	5	ug/L
110-82-7	Cyclohexane	0.55	U	0.55	5	ug/L
78-93-3	2-Butanone	1.3	U	1.3	25	ug/L
56-23-5	Carbon Tetrachloride	0.62	U	0.62	5	ug/L
156-59-2	cis-1,2-Dichloroethene	0.35	U	0.35	5	ug/L
67-66-3	Chloroform	0.34	U	0.34	5	ug/L
71-55-6	1,1,1-Trichloroethane	0.4	U	0.4	5	ug/L
108-87-2	Methylcyclohexane	0.68	U	0.68	5	ug/L
71-43-2	Benzene	0.32	U	0.32	5	ug/L
107-06-2	1,2-Dichloroethane	0.48	U	0.48	5	ug/L
79-01-6	Trichloroethene	0.28	U	0.28	5	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5	ug/L
75-27-4	Bromodichloromethane	0.36	U	0.36	5	ug/L
108-10-1	4-Methyl-2-Pentanone	2.1	U	2.1	25	ug/L
108-88-3	Toluene	0.37	U	0.37	5	ug/L
10061-02-6	t-1,3-Dichloropropene	0.29	U	0.29	5	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.31	U	0.31	5	ug/L

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	MW-11R	SDG No.:	C3757
Lab Sample ID:	C3757-08	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043101.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.38	U	0.38	5	ug/L
591-78-6	2-Hexanone	1.9	U	1.9	25	ug/L
124-48-1	Dibromochloromethane	0.52	U	0.52	5	ug/L
106-93-4	1,2-Dibromoethane	0.41	U	0.41	5	ug/L
127-18-4	Tetrachloroethene	0.27	U	0.27	5	ug/L
108-90-7	Chlorobenzene	0.49	U	0.49	5	ug/L
100-41-4	Ethyl Benzene	0.53	U	0.53	5	ug/L
179601-23-1	m/p-Xylenes	0.95	U	0.95	10	ug/L
95-47-6	o-Xylene	0.43	U	0.43	5	ug/L
100-42-5	Styrene	0.36	U	0.36	5	ug/L
75-25-2	Bromoform	0.47	U	0.47	5	ug/L
98-82-8	Isopropylbenzene	0.45	U	0.45	5	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.31	U	0.31	5	ug/L
541-73-1	1,3-Dichlorobenzene	0.43	U	0.43	5	ug/L
106-46-7	1,4-Dichlorobenzene	0.32	U	0.32	5	ug/L
95-50-1	1,2-Dichlorobenzene	0.45	U	0.45	5	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.62	U	0.62	5	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51		61 - 141	102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		69 - 133	99%	SPK: 50
2037-26-5	Toluene-d8	56.2		65 - 126	112%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		58 - 135	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	603432	3.82			
540-36-3	1,4-Difluorobenzene	1070050	4.31			
3114-55-4	Chlorobenzene-d5	900944	7.57			
3855-82-1	1,4-Dichlorobenzene-d4	361442	10.14			

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	MW-24	SDG No.:	C3757
Lab Sample ID:	C3757-09	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043102.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.55	U	0.55	5	ug/L
74-87-3	Chloromethane	0.54	U	0.54	5	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	5	ug/L
74-83-9	Bromomethane	0.62	U	0.62	5	ug/L
75-00-3	Chloroethane	0.66	U	0.66	5	ug/L
75-69-4	Trichlorofluoromethane	0.35	U	0.35	5	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	U	0.45	5	ug/L
75-35-4	1,1-Dichloroethene	0.47	U	0.47	5	ug/L
67-64-1	Acetone	2.8	U	2.8	25	ug/L
75-15-0	Carbon Disulfide	0.54	U	0.54	5	ug/L
1634-04-4	Methyl tert-butyl Ether	0.35	U	0.35	5	ug/L
79-20-9	Methyl Acetate	0.83	U	0.83	5	ug/L
75-09-2	Methylene Chloride	0.41	U	0.41	5	ug/L
156-60-5	trans-1,2-Dichloroethene	0.41	U	0.41	5	ug/L
75-34-3	1,1-Dichloroethane	0.36	U	0.36	5	ug/L
110-82-7	Cyclohexane	0.55	U	0.55	5	ug/L
78-93-3	2-Butanone	1.3	U	1.3	25	ug/L
56-23-5	Carbon Tetrachloride	0.62	U	0.62	5	ug/L
156-59-2	cis-1,2-Dichloroethene	0.35	U	0.35	5	ug/L
67-66-3	Chloroform	0.34	U	0.34	5	ug/L
71-55-6	1,1,1-Trichloroethane	0.4	U	0.4	5	ug/L
108-87-2	Methylcyclohexane	0.68	U	0.68	5	ug/L
71-43-2	Benzene	0.32	U	0.32	5	ug/L
107-06-2	1,2-Dichloroethane	0.48	U	0.48	5	ug/L
79-01-6	Trichloroethene	3.8	J	0.28	5	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5	ug/L
75-27-4	Bromodichloromethane	0.36	U	0.36	5	ug/L
108-10-1	4-Methyl-2-Pentanone	2.1	U	2.1	25	ug/L
108-88-3	Toluene	0.37	U	0.37	5	ug/L
10061-02-6	t-1,3-Dichloropropene	0.29	U	0.29	5	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.31	U	0.31	5	ug/L

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	MW-24	SDG No.:	C3757
Lab Sample ID:	C3757-09	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043102.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.38	U	0.38	5	ug/L
591-78-6	2-Hexanone	1.9	U	1.9	25	ug/L
124-48-1	Dibromochloromethane	0.52	U	0.52	5	ug/L
106-93-4	1,2-Dibromoethane	0.41	U	0.41	5	ug/L
127-18-4	Tetrachloroethene	16		0.27	5	ug/L
108-90-7	Chlorobenzene	0.49	U	0.49	5	ug/L
100-41-4	Ethyl Benzene	0.53	U	0.53	5	ug/L
179601-23-1	m/p-Xylenes	0.95	U	0.95	10	ug/L
95-47-6	o-Xylene	0.43	U	0.43	5	ug/L
100-42-5	Styrene	0.36	U	0.36	5	ug/L
75-25-2	Bromoform	0.47	U	0.47	5	ug/L
98-82-8	Isopropylbenzene	0.45	U	0.45	5	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.31	U	0.31	5	ug/L
541-73-1	1,3-Dichlorobenzene	0.43	U	0.43	5	ug/L
106-46-7	1,4-Dichlorobenzene	0.32	U	0.32	5	ug/L
95-50-1	1,2-Dichlorobenzene	0.45	U	0.45	5	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.62	U	0.62	5	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		61 - 141	101%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		69 - 133	103%	SPK: 50
2037-26-5	Toluene-d8	57.8		65 - 126	116%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		58 - 135	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	622250	3.81			
540-36-3	1,4-Difluorobenzene	1059580	4.31			
3114-55-4	Chlorobenzene-d5	920523	7.58			
3855-82-1	1,4-Dichlorobenzene-d4	371902	10.13			

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	DUP	SDG No.:	C3757
Lab Sample ID:	C3757-10	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043103.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.55	U	0.55	5	ug/L
74-87-3	Chloromethane	0.54	U	0.54	5	ug/L
75-01-4	Vinyl Chloride	7.7		0.34	5	ug/L
74-83-9	Bromomethane	0.62	U	0.62	5	ug/L
75-00-3	Chloroethane	0.66	U	0.66	5	ug/L
75-69-4	Trichlorofluoromethane	0.35	U	0.35	5	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	U	0.45	5	ug/L
75-35-4	1,1-Dichloroethene	0.47	U	0.47	5	ug/L
67-64-1	Acetone	2.8	U	2.8	25	ug/L
75-15-0	Carbon Disulfide	0.54	U	0.54	5	ug/L
1634-04-4	Methyl tert-butyl Ether	0.35	U	0.35	5	ug/L
79-20-9	Methyl Acetate	0.83	U	0.83	5	ug/L
75-09-2	Methylene Chloride	0.41	U	0.41	5	ug/L
156-60-5	trans-1,2-Dichloroethene	0.41	U	0.41	5	ug/L
75-34-3	1,1-Dichloroethane	0.36	U	0.36	5	ug/L
110-82-7	Cyclohexane	0.55	U	0.55	5	ug/L
78-93-3	2-Butanone	1.3	U	1.3	25	ug/L
56-23-5	Carbon Tetrachloride	0.62	U	0.62	5	ug/L
156-59-2	cis-1,2-Dichloroethene	3.3	J	0.35	5	ug/L
67-66-3	Chloroform	0.34	U	0.34	5	ug/L
71-55-6	1,1,1-Trichloroethane	0.4	U	0.4	5	ug/L
108-87-2	Methylcyclohexane	0.68	U	0.68	5	ug/L
71-43-2	Benzene	0.32	U	0.32	5	ug/L
107-06-2	1,2-Dichloroethane	0.48	U	0.48	5	ug/L
79-01-6	Trichloroethene	0.28	U	0.28	5	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5	ug/L
75-27-4	Bromodichloromethane	0.36	U	0.36	5	ug/L
108-10-1	4-Methyl-2-Pentanone	2.1	U	2.1	25	ug/L
108-88-3	Toluene	0.37	U	0.37	5	ug/L
10061-02-6	t-1,3-Dichloropropene	0.29	U	0.29	5	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.31	U	0.31	5	ug/L

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	DUP	SDG No.:	C3757
Lab Sample ID:	C3757-10	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043103.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.38	U	0.38	5	ug/L
591-78-6	2-Hexanone	1.9	U	1.9	25	ug/L
124-48-1	Dibromochloromethane	0.52	U	0.52	5	ug/L
106-93-4	1,2-Dibromoethane	0.41	U	0.41	5	ug/L
127-18-4	Tetrachloroethene	0.27	U	0.27	5	ug/L
108-90-7	Chlorobenzene	0.49	U	0.49	5	ug/L
100-41-4	Ethyl Benzene	0.53	U	0.53	5	ug/L
179601-23-1	m/p-Xylenes	0.95	U	0.95	10	ug/L
95-47-6	o-Xylene	0.43	U	0.43	5	ug/L
100-42-5	Styrene	0.36	U	0.36	5	ug/L
75-25-2	Bromoform	0.47	U	0.47	5	ug/L
98-82-8	Isopropylbenzene	0.45	U	0.45	5	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.31	U	0.31	5	ug/L
541-73-1	1,3-Dichlorobenzene	0.43	U	0.43	5	ug/L
106-46-7	1,4-Dichlorobenzene	0.32	U	0.32	5	ug/L
95-50-1	1,2-Dichlorobenzene	0.45	U	0.45	5	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.62	U	0.62	5	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.8		61 - 141	102%	SPK: 50
1868-53-7	Dibromofluoromethane	55.3		69 - 133	111%	SPK: 50
2037-26-5	Toluene-d8	58.4		65 - 126	117%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.7		58 - 135	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	602134	3.83			
540-36-3	1,4-Difluorobenzene	1021430	4.31			
3114-55-4	Chlorobenzene-d5	875161	7.58			
3855-82-1	1,4-Dichlorobenzene-d4	376112	10.14			

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	TB	SDG No.:	C3757
Lab Sample ID:	C3757-11	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043096.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.55	U	0.55	5	ug/L
74-87-3	Chloromethane	0.54	U	0.54	5	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	5	ug/L
74-83-9	Bromomethane	0.62	U	0.62	5	ug/L
75-00-3	Chloroethane	0.66	U	0.66	5	ug/L
75-69-4	Trichlorofluoromethane	0.35	U	0.35	5	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	U	0.45	5	ug/L
75-35-4	1,1-Dichloroethene	0.47	U	0.47	5	ug/L
67-64-1	Acetone	2.8	U	2.8	25	ug/L
75-15-0	Carbon Disulfide	0.54	U	0.54	5	ug/L
1634-04-4	Methyl tert-butyl Ether	0.35	U	0.35	5	ug/L
79-20-9	Methyl Acetate	0.83	U	0.83	5	ug/L
75-09-2	Methylene Chloride	0.41	U	0.41	5	ug/L
156-60-5	trans-1,2-Dichloroethene	0.41	U	0.41	5	ug/L
75-34-3	1,1-Dichloroethane	0.36	U	0.36	5	ug/L
110-82-7	Cyclohexane	0.55	U	0.55	5	ug/L
78-93-3	2-Butanone	1.3	U	1.3	25	ug/L
56-23-5	Carbon Tetrachloride	0.62	U	0.62	5	ug/L
156-59-2	cis-1,2-Dichloroethene	0.35	U	0.35	5	ug/L
67-66-3	Chloroform	0.34	U	0.34	5	ug/L
71-55-6	1,1,1-Trichloroethane	0.4	U	0.4	5	ug/L
108-87-2	Methylcyclohexane	0.68	U	0.68	5	ug/L
71-43-2	Benzene	0.32	U	0.32	5	ug/L
107-06-2	1,2-Dichloroethane	0.48	U	0.48	5	ug/L
79-01-6	Trichloroethene	0.28	U	0.28	5	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5	ug/L
75-27-4	Bromodichloromethane	0.36	U	0.36	5	ug/L
108-10-1	4-Methyl-2-Pentanone	2.1	U	2.1	25	ug/L
108-88-3	Toluene	0.37	U	0.37	5	ug/L
10061-02-6	t-1,3-Dichloropropene	0.29	U	0.29	5	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.31	U	0.31	5	ug/L

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	09/17/11
Project:	Motthaven	Date Received:	09/20/11
Client Sample ID:	TB	SDG No.:	C3757
Lab Sample ID:	C3757-11	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCL
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH043096.D	1		09/20/11	VH092011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.38	U	0.38	5	ug/L
591-78-6	2-Hexanone	1.9	U	1.9	25	ug/L
124-48-1	Dibromochloromethane	0.52	U	0.52	5	ug/L
106-93-4	1,2-Dibromoethane	0.41	U	0.41	5	ug/L
127-18-4	Tetrachloroethene	0.27	U	0.27	5	ug/L
108-90-7	Chlorobenzene	0.49	U	0.49	5	ug/L
100-41-4	Ethyl Benzene	0.53	U	0.53	5	ug/L
179601-23-1	m/p-Xylenes	0.95	U	0.95	10	ug/L
95-47-6	o-Xylene	0.43	U	0.43	5	ug/L
100-42-5	Styrene	0.36	U	0.36	5	ug/L
75-25-2	Bromoform	0.47	U	0.47	5	ug/L
98-82-8	Isopropylbenzene	0.45	U	0.45	5	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.31	U	0.31	5	ug/L
541-73-1	1,3-Dichlorobenzene	0.43	U	0.43	5	ug/L
106-46-7	1,4-Dichlorobenzene	0.32	U	0.32	5	ug/L
95-50-1	1,2-Dichlorobenzene	0.45	U	0.45	5	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.62	U	0.62	5	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48		61 - 141	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		69 - 133	99%	SPK: 50
2037-26-5	Toluene-d8	54.6		65 - 126	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.8		58 - 135	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	649634	3.82			
540-36-3	1,4-Difluorobenzene	1107700	4.31			
3114-55-4	Chlorobenzene-d5	919827	7.58			
3855-82-1	1,4-Dichlorobenzene-d4	392224	10.14			

APPENDIX C

LABORATORY CERTIFICATION FORMS

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 14, 2011

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. DIVYAJIT MEHTA
CHEMTECH
284 SHEFFIELD STREET
MOUNTAINSIDE, NJ 07092

NY Lab Id No: 11376
EPA Lab Code: NJ00503

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Disinfection By-products

Chlorate	EPA 300.0 Rev. 2.1
Free Residual Chlorine	SM 18-21 4500-Cl G (00)
Total Residual Chlorine	SM 18-21 4500-Cl G (00)

Drinking Water Metals I

Arsenic, Total	EPA 200.8 Rev. 5.4
Barium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Iron, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.8 Rev. 5.4
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Mercury, Total	EPA 245.1 Rev. 3.0
Selenium, Total	EPA 200.8 Rev. 5.4
Silver, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Drinking Water Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4

Drinking Water Metals II

Aluminum, Total	EPA 200.8 Rev. 5.4
Antimony, Total	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4

Drinking Water Metals III

Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4

Drinking Water Miscellaneous

Odor	SM 18-21 2150B (97)
Organic Carbon, Total	SM 18-21 5310B (00)
Perchlorate	EPA 314.0
	EPA 331.0
Surfactant (MBAS)	SM 18-21 5540C (00)
Temperature	SM 18-21 2550B (00)
Turbidity	EPA 180.1 Rev. 2.0
	SM 18-21 2130 B (01)

Drinking Water Non-Metals

Alkalinity	SM 18-21 2320B (97)
Calcium Hardness	EPA 200.7 Rev. 4.4
Chloride	EPA 300.0 Rev. 2.1

Serial No.: 44787

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

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MR. DIVYAJIT MEHTA
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284 SHEFFIELD STREET
MOUNTAINSIDE, NJ 07092

NY Lab Id No: 11376
EPA Lab Code: NJ00503

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Drinking Water Non-Metals

Color	SM 18-21 2120B (01)
Fluoride, Total	EPA 300.0 Rev. 2.1
Hydrogen Ion (pH)	SM 18-21 4500-H B (00)
Nitrate (as N)	EPA 300.0 Rev. 2.1
Nitrite (as N)	EPA 300.0 Rev. 2.1
Orthophosphate (as P)	EPA 300.0 Rev. 2.1
	SM 18-21 4500-P E
Solids, Total Dissolved	SM 18-21 2540C (97)
Specific Conductance	SM 18-21 2510B (97)
Sulfate (as SO4)	EPA 300.0 Rev. 2.1
	SM 18-21 4500-SO4 E (97)

Drinking Water Trihalomethanes

Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Total Trihalomethanes	EPA 524.2

Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2

Volatile Aromatics

4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2

Serial No.: 44787

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

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CHEMTECH
284 SHEFFIELD STREET
MOUNTAINSIDE, NJ 07092

NY Lab Id No: 11376
EPA Lab Code: NJ00503

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Volatile Halocarbons

1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

Serial No.: 44787

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

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MOUNTAINSIDE, NJ 07092

NY Lab Id No: 11376
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is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER All approved analytes are listed below:

Acrylates

Acrolein (Propenal)	EPA 8015 B
	EPA 8260B
Acrylonitrile	EPA 8260B

Amines

2-Nitroaniline	EPA 8270C
3-Nitroaniline	EPA 8270C
4-Chloroaniline	EPA 8270C
4-Nitroaniline	EPA 8270C
Aniline	EPA 8270C
Carbazole	EPA 8270C
Propionitrile	EPA 8015 B
Pyridine	EPA 625
	EPA 8270C

Benzidines

3,3'-Dichlorobenzidine	EPA 625
	EPA 8270C
Benzidine	EPA 625
	EPA 8270C

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 608
	EPA 8081A
4,4'-DDE	EPA 608
	EPA 8081A
4,4'-DDT	EPA 608

Chlorinated Hydrocarbon Pesticides

4,4'-DDT	EPA 8081A
Aldrin	EPA 608
	EPA 8081A
alpha-BHC	EPA 608
	EPA 8081A
alpha-Chlordane	EPA 8081A
beta-BHC	EPA 608
	EPA 8081A
Chlordane Total	EPA 608
	EPA 8081A
delta-BHC	EPA 608
	EPA 8081A
Dieldrin	EPA 608
	EPA 8081A
Endosulfan I	EPA 608
	EPA 8081A
Endosulfan II	EPA 608
	EPA 8081A
Endosulfan sulfate	EPA 608
	EPA 8081A
Endrin	EPA 608
	EPA 8081A
Endrin aldehyde	EPA 608
	EPA 8081A
Endrin Ketone	EPA 8081A

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 14, 2011

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. DIVYAJIT MEHTA
CHEMTECH
284 SHEFFIELD STREET
MOUNTAINSIDE, NJ 07092

NY Lab Id No: 11376
EPA Lab Code: NJ00503

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER All approved analytes are listed below:

Chlorinated Hydrocarbon Pesticides

gamma-Chlordane	EPA 8081A
Heptachlor	EPA 608
	EPA 8081A
Heptachlor epoxide	EPA 608
	EPA 8081A
Lindane	EPA 608
	EPA 8081A
Methoxychlor	EPA 608
	EPA 8081A
Toxaphene	EPA 608
	EPA 8081A

Chlorinated Hydrocarbons

1,2,4-Trichlorobenzene	EPA 625
	EPA 8270C
2-Chloronaphthalene	EPA 625
	EPA 8270C
Hexachlorobenzene	EPA 625
	EPA 8270C
Hexachlorobutadiene	EPA 625
	EPA 8270C
Hexachlorocyclopentadiene	EPA 625
	EPA 8270C
Hexachloroethane	EPA 625
	EPA 8270C

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dalapon	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8151A

Demand

Biochemical Oxygen Demand	SM 18-21 5210B (01)
Carbonaceous BOD	SM 18-21 5210B (01)
Chemical Oxygen Demand	SM 18-21 5220D (97)

Fuel Oxygenates

Methyl tert-butyl ether	EPA 8260B
tert-butyl alcohol	EPA 8015 B
	EPA 8260B

Haloethers

4-Bromophenylphenyl ether	EPA 625
	EPA 8270C
4-Chlorophenylphenyl ether	EPA 625
	EPA 8270C
Bis (2-chloroisopropyl) ether	EPA 625
	EPA 8270C
Bis(2-chloroethoxy)methane	EPA 625
	EPA 8270C
Bis(2-chloroethyl)ether	EPA 625

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Haloethers	
Bis(2-chloroethyl)ether	EPA 8270C
Mineral	
Acidity	ASTM D1067-92 & 02
Alkalinity	SM 18-21 2320B (97)
Chloride	EPA 300.0 Rev. 2.1
	EPA 9056A
Fluoride, Total	EPA 300.0 Rev. 2.1
	EPA 9056A
Hardness, Total	EPA 200.7 Rev. 4.4
Sulfate (as SO4)	EPA 300.0 Rev. 2.1
	EPA 9056A
	SM 15 426 C
Nitroaromatics and Isophorone	
1,3,5-Trinitrobenzene	EPA 8330
1,3-Dinitrobenzene	EPA 8330
2,4,6-Trinitrotoluene	EPA 8330
2,4-Dinitrotoluene	EPA 625
	EPA 8270C
	EPA 8330
2,6-Dinitrotoluene	EPA 625
	EPA 8270C
	EPA 8330
2-Amino-4,6-dinitrotoluene	EPA 8330
2-Nitrotoluene	EPA 8330
3-Nitrotoluene	EPA 8330
Nitroaromatics and Isophorone	
4-Amino-2,6-dinitrotoluene	EPA 8330
4-Nitrotoluene	EPA 8330
Hexahydro-1,3,5-trinitro-1,3,5-triazine	EPA 8330
Isophorone	EPA 625
	EPA 8270C
Methyl-2,4,6-trinitrophenylnitramine	EPA 8330
Nitrobenzene	EPA 625
	EPA 8270C
	EPA 8330
Nitrosoamines	
N-Nitrosodimethylamine	EPA 625
N-Nitrosodi-n-butylamine	EPA 8015 B
N-Nitrosodi-n-propylamine	EPA 625
	EPA 8270C
N-Nitrosodiphenylamine	EPA 625
	EPA 8270C
Nutrient	
Ammonia (as N)	SM 18 4500-NH3 H
Nitrate (as N)	EPA 300.0 Rev. 2.1
	EPA 9056A
Nitrite (as N)	EPA 300.0 Rev. 2.1
	EPA 9056A
	SM 18-21 4500-NO2 B (00)
Orthophosphate (as P)	EPA 300.0 Rev. 2.1
	EPA 9056A

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Nutrient	
Orthophosphate (as P)	SM 18-21 4500-P E
Phthalate Esters	
Benzyl butyl phthalate	EPA 625
	EPA 8270C
Bis(2-ethylhexyl) phthalate	EPA 625
	EPA 8270C
Diethyl phthalate	EPA 625
	EPA 8270C
Dimethyl phthalate	EPA 625
	EPA 8270C
Di-n-butyl phthalate	EPA 625
	EPA 8270C
Di-n-octyl phthalate	EPA 625
	EPA 8270C
Polychlorinated Biphenyls	
PCB-1016	EPA 608
	EPA 8082
PCB-1221	EPA 608
	EPA 8082
PCB-1232	EPA 608
	EPA 8082
PCB-1242	EPA 608
	EPA 8082
PCB-1248	EPA 608
	EPA 8082
Polychlorinated Biphenyls	
PCB-1254	EPA 608
	EPA 8082
PCB-1260	EPA 608
	EPA 8082
Polynuclear Aromatics	
Acenaphthene	EPA 625
	EPA 8270C
Acenaphthylene	EPA 625
	EPA 8270C
Anthracene	EPA 625
	EPA 8270C
Benzo(a)anthracene	EPA 625
	EPA 8270C
Benzo(a)pyrene	EPA 625
	EPA 8270C
Benzo(b)fluoranthene	EPA 625
	EPA 8270C
Benzo(ghi)perylene	EPA 625
	EPA 8270C
Benzo(k)fluoranthene	EPA 625
	EPA 8270C
Chrysene	EPA 625
	EPA 8270C
Dibenzo(a,h)anthracene	EPA 625
	EPA 8270C

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Polynuclear Aromatics

Fluoranthene	EPA 625
	EPA 8270C
Fluorene	EPA 625
	EPA 8270C
Indeno(1,2,3-cd)pyrene	EPA 625
	EPA 8270C
Naphthalene	EPA 625
	EPA 8270C
Phenanthrene	EPA 625
	EPA 8270C
Pyrene	EPA 625
	EPA 8270C

Priority Pollutant Phenols

2,4,5-Trichlorophenol	EPA 625
	EPA 8270C
2,4,6-Trichlorophenol	EPA 625
	EPA 8270C
2,4-Dichlorophenol	EPA 625
	EPA 8270C
2,4-Dimethylphenol	EPA 625
	EPA 8270C
2,4-Dinitrophenol	EPA 625
	EPA 8270C
2-Chlorophenol	EPA 625
	EPA 8270C

Priority Pollutant Phenols

2-Methyl-4,6-dinitrophenol	EPA 625
	EPA 8270C
2-Methylphenol	EPA 8270C
2-Nitrophenol	EPA 625
	EPA 8270C
3-Methylphenol	EPA 8270C
4-Chloro-3-methylphenol	EPA 625
	EPA 8270C
4-Methylphenol	EPA 8270C
4-Nitrophenol	EPA 625
	EPA 8270C
Pentachlorophenol	EPA 625
	EPA 8270C
Phenol	EPA 625
	EPA 8270C

Residue

Settleable Solids	SM 18-21 2540 F (97)
Solids, Total	SM 18-21 2540B (97)
Solids, Total Dissolved	SM 18-21 2540C (97)
Solids, Total Suspended	SM 18-21 2540D (97)

Semi-Volatile Organics

1,2-Dichlorobenzene, Semi-volatile	EPA 8270C
1,3-Dichlorobenzene, Semi-volatile	EPA 8270C
1,4-Dichlorobenzene, Semi-volatile	EPA 8270C
2-Methylnaphthalene	EPA 8270C

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Semi-Volatile Organics

Dibenzofuran	EPA 8270C

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260B
1,2-Dichlorobenzene	EPA 624
	EPA 8260B
1,3-Dichlorobenzene	EPA 624
	EPA 8260B
1,4-Dichlorobenzene	EPA 624
	EPA 8260B
Benzene	EPA 624
	EPA 8260B
Chlorobenzene	EPA 624
	EPA 8260B
Ethyl benzene	EPA 624
	EPA 8260B
Naphthalene, Volatile	EPA 8260B
Styrene	EPA 624
	EPA 8260B
Toluene	EPA 624
	EPA 8260B
Total Xylenes	EPA 624
	EPA 8260B

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260B
1,1,1-Trichloroethane	EPA 624

Volatile Halocarbons

1,1,1-Trichloroethane	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 624
	EPA 8260B
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260B
1,1,2-Trichloroethane	EPA 624
	EPA 8260B
1,1-Dichloroethane	EPA 624
	EPA 8260B
1,1-Dichloroethene	EPA 624
	EPA 8260B
1,2,3-Trichloropropane	EPA 8260B
1,2-Dibromo-3-chloropropane	EPA 8260B
1,2-Dibromoethane	EPA 8260B
1,2-Dichloroethane	EPA 624
	EPA 8260B
1,2-Dichloropropane	EPA 624
	EPA 8260B
2-Chloroethylvinyl ether	EPA 624
	EPA 8260B
Bromodichloromethane	EPA 624
	EPA 8260B
Bromoform	EPA 624
	EPA 8260B
Bromomethane	EPA 624
	EPA 8260B

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Volatile Halocarbons

Carbon tetrachloride	EPA 624
	EPA 8260B
Chloroethane	EPA 624
	EPA 8260B
Chloroform	EPA 624
	EPA 8260B
Chloromethane	EPA 624
	EPA 8260B
cis-1,2-Dichloroethene	EPA 624
	EPA 8260B
cis-1,3-Dichloropropene	EPA 624
	EPA 8260B
Dibromochloromethane	EPA 624
	EPA 8260B
Dichlorodifluoromethane	EPA 8260B
Methylene chloride	EPA 624
	EPA 8260B
Tetrachloroethene	EPA 624
	EPA 8260B
trans-1,2-Dichloroethene	EPA 624
	EPA 8260B
trans-1,3-Dichloropropene	EPA 624
	EPA 8260B
Trichloroethene	EPA 624
	EPA 8260B

Volatile Halocarbons

Trichlorofluoromethane	EPA 624
	EPA 8260B
Vinyl chloride	EPA 624
	EPA 8260B

Volatiles Organics

1,4-Dioxane	EPA 8260B
2-Butanone (Methylethyl ketone)	EPA 8015 B
	EPA 8260B
2-Hexanone	EPA 8260B
4-Methyl-2-Pentanone	EPA 8260B
Acetone	EPA 8015 B
	EPA 8260B
Acetonitrile	EPA 8015 B
Carbon Disulfide	EPA 8260B
Methyl cyclohexane	EPA 8260B
o-Toluidine	EPA 8015 B
Vinyl acetate	EPA 8260B

Wastewater Metals I

Barium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
	SM 18-21 3120B (99)
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

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Wastewater Metals I

Cadmium, Total	EPA 6010B
	EPA 6020
	SM 18-21 3120B (99)
Calcium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
	SM 18-21 3120B (99)
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
	SM 18-21 3120B (99)
Iron, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
	SM 18-21 3120B (99)
Lead, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
	SM 18-21 3120B (99)
Magnesium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B

Wastewater Metals I

Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
	SM 18-21 3120B (99)
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
	SM 18-21 3120B (99)
Potassium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
	SM 18-21 3120B (99)
Silver, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
	SM 18-21 3120B (99)
Sodium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
	SM 18-21 3120B (99)

Wastewater Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B

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Wastewater Metals II

Aluminum, Total	EPA 6020
	SM 18-21 3120B (99)
Antimony, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
	SM 18-21 3120B (99)
Arsenic, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
	SM 18-21 3120B (99)
Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
	SM 18-21 3120B (99)
Chromium VI	EPA 7196A
	SM 18-19 3500-Cr D
Mercury, Total	EPA 245.1 Rev. 3.0
	EPA 7470A
	SM 18-21 3112B (99)
Selenium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B

Wastewater Metals II

Selenium, Total	EPA 6020
	SM 18-21 3120B (99)
Vanadium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
	SM 18-21 3120B (99)
Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
	SM 18-21 3120B (99)

Wastewater Metals III

Cobalt, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
	SM 18-21 3120B (99)
Molybdenum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	SM 18-21 3120B (99)
Thallium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B

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Wastewater Metals III

Thallium, Total	EPA 6020
	SM 18-21 3120B (99)
Tin, Total	EPA 200.7 Rev. 4.4
	EPA 6010B

Wastewater Miscellaneous

Boron, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Bromide	EPA 300.0 Rev. 2.1
	EPA 9056A
Color	SM 18-21 2120B (01)
Cyanide, Total	EPA 9012A
	SM 18-21 4500-CN D (99)
	SM 18-21 4500-CN E (99)
Hydrogen Ion (pH)	EPA 9040B
	SM 18-21 4500-H B (00)
Oil & Grease Total Recoverable (HEM)	EPA 1664A
Organic Carbon, Total	EPA 9060
	SM 18-21 5310B (00)
Phenols	EPA 420.1 Rev. 1978
	EPA 9065
Silica, Dissolved	EPA 200.7 Rev. 4.4
Specific Conductance	EPA 120.1 Rev. 1982
	SM 18-21 2510B (97)
Sulfide (as S)	EPA 9034
Surfactant (MBAS)	SM 18-21 5540C (00)

Wastewater Miscellaneous

Temperature	SM 18-21 2550B (00)
Total Residual Chlorine	SM 18-21 4500-Cl G (00)
Turbidity	EPA 180.1 Rev. 2.0
	SM 18-21 2130 B (01)

Sample Preparation Methods

EPA 3005A
EPA 3010A
EPA 3510C
EPA 3520C
EPA 5030B
EPA 9010B
EPA 9030B
SM 18-20 4500-CN C
SM 18-21 4500-N Org B or C (97)

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved subcategories and/or analytes are listed below:

Polychlorinated Biphenyls

PCB-1262	EPA 8082
PCB-1268	EPA 8082

Serial No.: 44789

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 14, 2011

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. DIVYAJIT MEHTA
CHEMTECH
284 SHEFFIELD STREET
MOUNTAINSIDE, NJ 07092

NY Lab Id No: 11376
EPA Lab Code: NJ00503

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Acrylates	
Acrolein (Propenal)	EPA 8260B
Acrylonitrile	EPA 8260B
Amines	
2-Nitroaniline	EPA 8270C
3-Nitroaniline	EPA 8270C
4-Chloroaniline	EPA 8270C
4-Nitroaniline	EPA 8270C
Aniline	EPA 8270C
Carbazole	EPA 8270C
Benzidines	
3,3'-Dichlorobenzidine	EPA 8270C
Benzidine	EPA 8270C
Characteristic Testing	
Corrosivity	EPA 1110
	EPA 9040B
	EPA 9045C
Ignitability	EPA 1010
	EPA 1030
Reactivity	SW-846 Ch7 Sec. 7.3
Chlorinated Hydrocarbon Pesticides	
4,4'-DDD	EPA 8081A
4,4'-DDE	EPA 8081A
4,4'-DDT	EPA 8081A
Aldrin	EPA 8081A

Chlorinated Hydrocarbon Pesticides	
alpha-BHC	EPA 8081A
alpha-Chlordane	EPA 8081A
beta-BHC	EPA 8081A
Chlordane Total	EPA 8081A
delta-BHC	EPA 8081A
Dieldrin	EPA 8081A
Endosulfan I	EPA 8081A
Endosulfan II	EPA 8081A
Endosulfan sulfate	EPA 8081A
Endrin	EPA 8081A
Endrin aldehyde	EPA 8081A
Endrin Ketone	EPA 8081A
gamma-Chlordane	EPA 8081A
Heptachlor	EPA 8081A
Heptachlor epoxide	EPA 8081A
Lindane	EPA 8081A
Methoxychlor	EPA 8081A
Toxaphene	EPA 8081A
Chlorinated Hydrocarbons	
1,2,4-Trichlorobenzene	EPA 8270C
2-Chloronaphthalene	EPA 8270C
Hexachlorobenzene	EPA 8270C
Hexachlorobutadiene	EPA 8270C
Hexachlorocyclopentadiene	EPA 8270C
Hexachloroethane	EPA 8270C

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Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dalapon	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8151A

Haloethers

4-Bromophenylphenyl ether	EPA 8270C
4-Chlorophenylphenyl ether	EPA 8270C
Bis (2-chloroisopropyl) ether	EPA 8270C
Bis(2-chloroethoxy)methane	EPA 8270C
Bis(2-chloroethyl)ether	EPA 8270C

Metals I

Barium, Total	EPA 6010B
	EPA 6020
Cadmium, Total	EPA 6010B
	EPA 6020
Calcium, Total	EPA 6010B
Chromium, Total	EPA 6010B
	EPA 6020
Copper, Total	EPA 6010B
	EPA 6020
Iron, Total	EPA 6010B
Lead, Total	EPA 6010B
	EPA 6020

Metals I

Magnesium, Total	EPA 6010B
Manganese, Total	EPA 6010B
Nickel, Total	EPA 6010B
	EPA 6020
Potassium, Total	EPA 6010B
Silver, Total	EPA 6010B
	EPA 6020
Sodium, Total	EPA 6010B

Metals II

Aluminum, Total	EPA 6010B
	EPA 6020
Antimony, Total	EPA 6010B
	EPA 6020
Arsenic, Total	EPA 6010B
	EPA 6020
Beryllium, Total	EPA 6010B
	EPA 6020
Chromium VI	EPA 7196A
Mercury, Total	EPA 7471A
Selenium, Total	EPA 6010B
	EPA 6020
Vanadium, Total	EPA 6010B
	EPA 6020
Zinc, Total	EPA 6010B
	EPA 6020

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Metals III

Cobalt, Total	EPA 6010B
	EPA 6020
Molybdenum, Total	EPA 6010B
Thallium, Total	EPA 6010B
	EPA 6020
Tin, Total	EPA 6010B

Minerals

Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO4)	EPA 9038
	EPA 9056A

Miscellaneous

Boron, Total	EPA 6010B
Cyanide, Total	EPA 9012A
	EPA 9014
Extractable Organic Halides	EPA 9023
Hydrogen Ion (pH)	EPA 9040B
	EPA 9045C
Phenols	EPA 9065
Sulfide (as S)	EPA 9031
	EPA 9034

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8330

Nitroaromatics and Isophorone

1,3-Dinitrobenzene	EPA 8330
2,4,6-Trinitrotoluene	EPA 8330
2,4-Dinitrotoluene	EPA 8270C
	EPA 8330
2,6-Dinitrotoluene	EPA 8270C
	EPA 8330
2-Amino-4,6-dinitrotoluene	EPA 8330
2-Nitrotoluene	EPA 8330
3-Nitrotoluene	EPA 8330
4-Amino-2,6-dinitrotoluene	EPA 8330
4-Nitrotoluene	EPA 8330
Hexahydro-1,3,5-trinitro-1,3,5-triazine	EPA 8330
Isophorone	EPA 8270C
Methyl-2,4,6-trinitrophenylnitramine	EPA 8330
Nitrobenzene	EPA 8270C
	EPA 8330
Pyridine	EPA 8270C

Nitrosoamines

N-Nitrosodi-n-propylamine	EPA 8270C
N-Nitrosodiphenylamine	EPA 8270C

Nutrients

Nitrate (as N)	EPA 9056A
Nitrite (as N)	EPA 9056A
Orthophosphate (as P)	EPA 9056A

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Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015 B
Gasoline Range Organics	EPA 8015 B
Oil & Grease Total Recoverable (HEM)	EPA 9071 (Solvent:Hexane)

Phthalate Esters

Benzyl butyl phthalate	EPA 8270C
Bis(2-ethylhexyl) phthalate	EPA 8270C
Diethyl phthalate	EPA 8270C
Dimethyl phthalate	EPA 8270C
Di-n-butyl phthalate	EPA 8270C
Di-n-octyl phthalate	EPA 8270C

Polychlorinated Biphenyls

PCB-1016	EPA 8082
PCB-1221	EPA 8082
PCB-1232	EPA 8082
PCB-1242	EPA 8082
PCB-1248	EPA 8082
PCB-1254	EPA 8082
PCB-1260	EPA 8082

Polynuclear Aromatic Hydrocarbons

Acenaphthene	EPA 8270C
Acenaphthylene	EPA 8270C
Anthracene	EPA 8270C
Benzo(a)anthracene	EPA 8270C
Benzo(a)pyrene	EPA 8270C

Polynuclear Aromatic Hydrocarbons

Benzo(b)fluoranthene	EPA 8270C
Benzo(ghi)perylene	EPA 8270C
Benzo(k)fluoranthene	EPA 8270C
Chrysene	EPA 8270C
Dibenzo(a,h)anthracene	EPA 8270C
Fluoranthene	EPA 8270C
Fluorene	EPA 8270C
Indeno(1,2,3-cd)pyrene	EPA 8270C
Naphthalene	EPA 8270C
Phenanthrene	EPA 8270C
Pyrene	EPA 8270C

Priority Pollutant Phenols

2,4,5-Trichlorophenol	EPA 8270C
2,4,6-Trichlorophenol	EPA 8270C
2,4-Dichlorophenol	EPA 8270C
2,4-Dimethylphenol	EPA 8270C
2,4-Dinitrophenol	EPA 8270C
2-Chlorophenol	EPA 8270C
2-Methyl-4,6-dinitrophenol	EPA 8270C
2-Methylphenol	EPA 8270C
2-Nitrophenol	EPA 8270C
3-Methylphenol	EPA 8270C
4-Chloro-3-methylphenol	EPA 8270C
4-Methylphenol	EPA 8270C
4-Nitrophenol	EPA 8270C

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Priority Pollutant Phenols

Pentachlorophenol	EPA 8270C
Phenol	EPA 8270C

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270C
1,2-Dichlorobenzene, Semi-volatile	EPA 8270C
1,3-Dichlorobenzene, Semi-volatile	EPA 8270C
1,4-Dichlorobenzene, Semi-volatile	EPA 8270C
2-Methylnaphthalene	EPA 8270C
Acetophenone	EPA 8270C
Benzaldehyde	EPA 8270C
Benzoic Acid	EPA 8270C
Benzyl alcohol	EPA 8270C
Caprolactam	EPA 8270C
Dibenzofuran	EPA 8270C

Volatile Aromatics

1,2-Dichlorobenzene	EPA 8260B
1,3-Dichlorobenzene	EPA 8260B
1,4-Dichlorobenzene	EPA 8260B
Benzene	EPA 8260B
Chlorobenzene	EPA 8260B
Ethyl benzene	EPA 8260B
Naphthalene, Volatile	EPA 8260B
Styrene	EPA 8260B
Toluene	EPA 8260B
Total Xylenes	EPA 8260B

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260B
1,1,1-Trichloroethane	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 8260B
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260B
1,1,2-Trichloroethane	EPA 8260B
1,1-Dichloroethane	EPA 8260B
1,1-Dichloroethene	EPA 8260B
1,2,3-Trichloropropane	EPA 8260B
1,2-Dibromo-3-chloropropane	EPA 8260B
1,2-Dibromoethane	EPA 8260B
1,2-Dichloroethane	EPA 8260B
1,2-Dichloropropane	EPA 8260B
2-Chloroethylvinyl ether	EPA 8260B
Bromodichloromethane	EPA 8260B
Bromoform	EPA 8260B
Bromomethane	EPA 8260B
Carbon tetrachloride	EPA 8260B
Chloroethane	EPA 8260B
Chloroform	EPA 8260B
Chloromethane	EPA 8260B
cis-1,2-Dichloroethene	EPA 8260B
cis-1,3-Dichloropropene	EPA 8260B
Dibromochloromethane	EPA 8260B
Dichlorodifluoromethane	EPA 8260B
Hexachlorobutadiene, Volatile	EPA 8260B

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All approved analytes are listed below:

Volatile Halocarbons

Methylene chloride	EPA 8260B
Tetrachloroethene	EPA 8260B
trans-1,2-Dichloroethene	EPA 8260B
trans-1,3-Dichloropropene	EPA 8260B
Trichloroethene	EPA 8260B
Trichlorofluoromethane	EPA 8260B
Vinyl chloride	EPA 8260B

Volatile Organics

1,4-Dioxane	EPA 8260B
2-Butanone (Methylethyl ketone)	EPA 8015 B
	EPA 8260B
2-Hexanone	EPA 8260B
4-Methyl-2-Pentanone	EPA 8260B
Acetone	EPA 8015 B
	EPA 8260B
Carbon Disulfide	EPA 8260B
Cyclohexane	EPA 8260B
Methyl acetate	EPA 8260B
Methyl cyclohexane	EPA 8260B
Methyl tert-butyl ether	EPA 8260B
tert-butyl alcohol	EPA 8260B
Vinyl acetate	EPA 8260B

Sample Preparation Methods

	EPA 1311
	EPA 3050B

Sample Preparation Methods

EPA 3060A
EPA 3541
EPA 3545
EPA 3550B
EPA 5035
EPA 9010B
EPA 9030B

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Polychlorinated Biphenyls

PCB-1262	EPA 8082
PCB-1268	EPA 8082

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Acrylates	
Acetonitrile	EPA TO-15
Acrylonitrile	EPA TO-15
Ethyl acrylate	EPA TO-15
Methyl methacrylate	EPA TO-15
Chlorinated Hydrocarbons	
1,2,4-Trichlorobenzene	EPA TO-15
Hexachlorobutadiene	EPA TO-15
Hexachloroethane	EPA TO-15
Polynuclear Aromatics	
Naphthalene	EPA TO-15
Purgeable Aromatics	
1,2,4-Trimethylbenzene	EPA TO-15
1,2-Dichlorobenzene	EPA TO-15
1,3,5-Trimethylbenzene	EPA TO-15
1,3-Dichlorobenzene	EPA TO-15
1,4-Dichlorobenzene	EPA TO-15
2-Chlorotoluene	EPA TO-15
Benzene	EPA TO-15
Chlorobenzene	EPA TO-15
Ethyl benzene	EPA TO-15
Isopropylbenzene	EPA TO-15
m/p-Xylenes	EPA TO-15
o-Xylene	EPA TO-15
Styrene	EPA TO-15
Purgeable Aromatics	
Toluene	EPA TO-15
Total Xylenes	EPA TO-15
Purgeable Halocarbons	
1,1,1-Trichloroethane	EPA TO-15
1,1,2,2-Tetrachloroethane	EPA TO-15
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA TO-15
1,1,2-Trichloroethane	EPA TO-15
1,1-Dichloroethane	EPA TO-15
1,1-Dichloroethene	EPA TO-15
1,2-Dibromo-3-chloropropane	EPA TO-15
1,2-Dibromoethane	EPA TO-15
1,2-Dichloro-1,1,2,2-tetrafluoroethane	EPA TO-15
1,2-Dichloroethane	EPA TO-15
1,2-Dichloropropane	EPA TO-15
Bromodichloromethane	EPA TO-15
Bromoform	EPA TO-15
Bromomethane	EPA TO-15
Carbon tetrachloride	EPA TO-15
Chloroethane	EPA TO-15
Chloroform	EPA TO-15
Chloromethane	EPA TO-15
cis-1,2-Dichloroethene	EPA TO-15
cis-1,3-Dichloropropene	EPA TO-15
Dibromochloromethane	EPA TO-15
Dichlorodifluoromethane	EPA TO-15

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Purgeable Halocarbons

Methylene chloride	EPA TO-15
Tetrachloroethene	EPA TO-15
trans-1,2-Dichloroethene	EPA TO-15
trans-1,3-Dichloropropene	EPA TO-15
Trichloroethene	EPA TO-15
Trichlorofluoromethane	EPA TO-15
Vinyl bromide	EPA TO-15
Vinyl chloride	EPA TO-15

Volatile Chlorinated Organics

Benzyl chloride	EPA TO-15
Epichlorohydrin	EPA TO-15

Volatile Organics

1,3-Butadiene	EPA TO-15
1,4-Dioxane	EPA TO-15
2,2,4-Trimethylpentane	EPA TO-15
2-Butanone (Methylethyl ketone)	EPA TO-15
4-Methyl-2-Pentanone	EPA TO-15
Acetone	EPA TO-15
Carbon Disulfide	EPA TO-15
Cyclohexane	EPA TO-15
Hexane	EPA TO-15
Isopropanol	EPA TO-15
Methanol	EPA TO-15
Methyl iodide	EPA TO-15
Methyl tert-butyl ether	EPA TO-15

Volatile Organics

n-Heptane	EPA TO-15
Nitrobenzene	EPA TO-15
tert-butyl alcohol	EPA TO-15
Vinyl acetate	EPA TO-15

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