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January 3, 2011

RECEIVED
JAN 05 2011
Remedial Bureau
Division of Environmental Remediation

Mr. Douglas MacNeal
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Technical Support, 11th Floor
625 Broadway
Albany, New York 12233

RE: Quarterly Groundwater Monitoring Report- Fourth Quarter 2010
River Place I & II
West 42nd Street, New York, New York
BCP Site No. C231024, C231012
Langan Project No.: 170040901

Dear Mr. MacNeal:

Langan Engineering & Environmental Services, PC (Langan) is pleased to present this letter report summarizing groundwater monitoring well sampling activities for River Place I & II located between West 41st and West 42nd Streets and 11th and 12th Avenues in New York, New York (the "Site"). A Site Location Map is attached as Figure 1. A Final Engineering Report (FER) for the site was approved by the New York Stated Department of Environmental Conservation (NYSDEC) and a Certificate of Completion (COC) was issued on June 19, 2007. A Site Management Plan (SMP) dated July 2006 was approved by NYSDEC.

In accordance with the SMP, groundwater monitoring began on March 16, 2009 and was conducted quarterly thereafter on June 17, 2009, September 18, 2009, January 7, 2010, March 1, 2010, July 14, 2010 and September 8, 2010. This report summarizes the most recent results from sampling conducted on December 16, 2010.

Fourth Quarter 2010 Groundwater Sampling

On December 15, 2010, Langan sampled wells MW-N2 and MW-S2 to represent the Fourth Quarter 2010 sampling event. During sampling, Langan visually inspected the monitoring wells for evidence of tampering or damage, and measured the depth to groundwater. Synaptic water level was measured using a Solinst oil/water interface probe. Water level measurements were repeated at least once to verify the accuracy of the initial measurement. All measurements were recorded on Langan field sampling forms. Copies of the completed field forms are included in Attachment A of this report.

Prior to collecting groundwater samples, MW-N2 and MW-S2 were purged using low-flow purge and sample techniques. The wells were purged using clean, dedicated, polyethylene tubing attached to a Waterra positive displacement pump. During purging, groundwater was monitored for dissolved oxygen, pH, temperature, turbidity, and specific conductance. These readings are included on the sampling forms in Attachment A. Prior to sampling, the wells were allowed to recover to approximately 80% or more of the static water level.

MW-N2 and MW-S2 were purged until physical and chemical parameters stabilized. Approximately 10 and 8 gallons were purged from each monitoring well, respectively. After purging, samples MW-N2-12-15-10 and MW-S2-12-15-10 were collected using a Waterra pump and dedicated tubing.

The groundwater samples, MW-N2-12-15-10 and MW-S2-12-15-10 were collected into laboratory-prepared containers, tightly sealed, uniquely labeled, and then stored on ice for transport to Alpha Analytical (Alpha) in Westborough, Massachusetts, under standard chain-of-custody procedures. One trip blank was included for quality assurance/quality control (QA/QC) purposes. The groundwater samples were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, Target Analyte List (TAL) metals by EPA SW 6000/7000, cyanide (total) by EPA SW 9012, and cyanide (available) by EPA 9014. The trip blank was analyzed for VOCs by EPA Method 8260.

Findings

Observations

During this sampling event no free product was observed in MW-N2 and MW-S2. The wells were observed to be in good condition.

Groundwater Analytical Results

Analytical results for the Fourth Quarter 2010 monitoring event that exceeded the NYSDEC TOGS 1.1.1 AWQS Class GA Standards are summarized below.

MW-N2	
VOCs[1]	
• benzene	• toluene
• p/m-xylene	• naphthalene
• o-xylene	• ethylbenzene
SVOCs[1]	
• acenaphthene	• phenol
• naphthalene	• bis(2 ethylhexyl)phtalate

MW-S2	
VOCs[1]	
• benzene	• ethylbenzene
• naphthalene	• n-propylbenzene
• isopropylbenzene	• 1,2,4-trimethylbenzene
SVOCs[1]	
• acenapthene	• benzo(b)flouranthene
• naphthalene	• indeno(1,2,3–cd)pyrene
• phenanthrene	

Inorganics		**Inorganics**	
• iron	• magnesium	• iron	• magnesium
• manganese	• cyanide	• cyanide	• lead
• lead	• sodium	• mercury	• manganese
		• sodium	

1) Due to the level of contamination in the samples, method detection limits were elevated above the TOGS standards for several of the VOCs and SVOCs.

Analytical results for the First Quarter 2009 through Fourth Quarter 2010 sampling rounds are summarized in Tables 1 through 3 and the laboratory analytical report for Fourth Quarter 2010 is included as Attachment B.

Please contact us if you have any questions.

Sincerely,
Langan Engineering & Environmental Services, P.C.

Joel B. Landes

Joel B. Landes, P.E.
Senior Associate

Enclosure(s):

Figure 1	Site Location Map
Figure 2	Well Location Map
Table 1	VOC Detections in Groundwater Samples
Table 2	SVOC Detections in Groundwater Samples
Table 3	Total Metals and Cyanide in Groundwater Sample
Attachment A	Groundwater Sampling Forms
Attachment B	Laboratory Analytical Reports, Chain-of-Custody and Certifications

cc:

Richard Rienzo- Con Edison
William R. Dacunto- River Place II LLC
Jason Hayes – Langan

FIGURES

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NJ Certificate of Authorization No: 24GA27996400

Project

SITE LOCATION MAP

RIVER PLACE I AND II

NEW YORK NEW YORK

Project No.	Date	Scale	Dwg. No.
170040901	04/07/09	NTS	1

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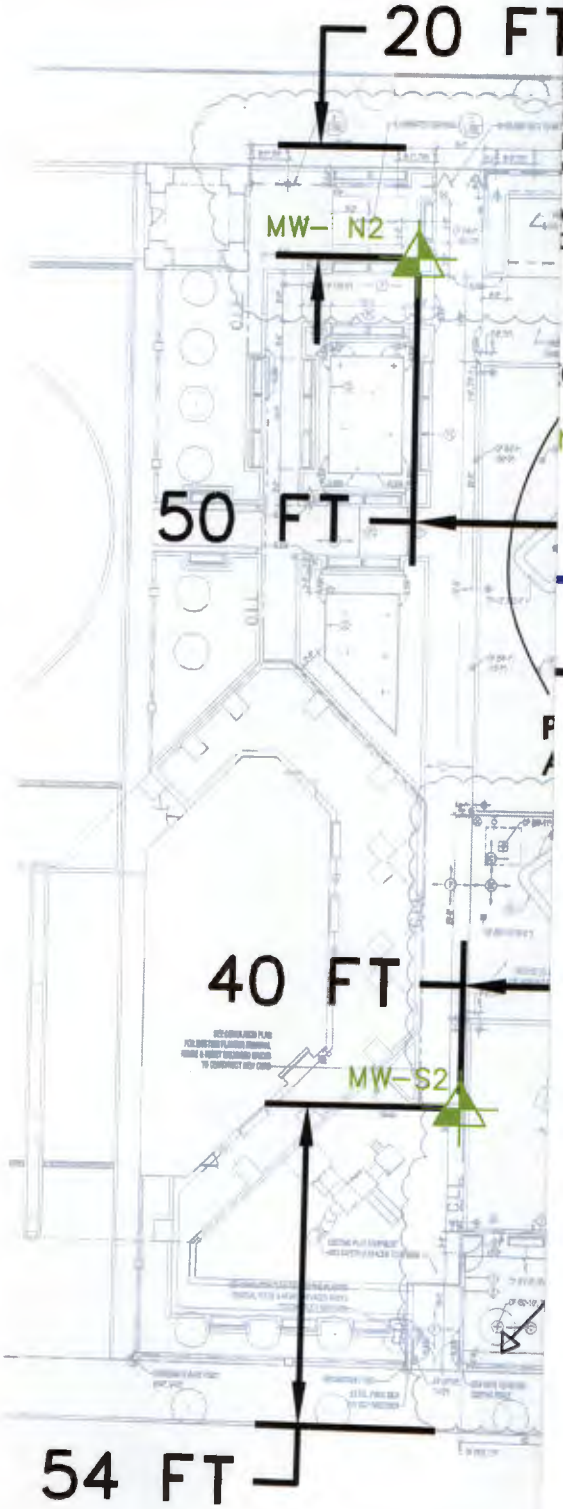
Filename: U:\Data9\170040901\Cadd Data - 170040901\Dwg\site location map.dwg Date: 5/5/2009 Time: 16:05 User: JGood Style Table: Langan.stb Layout: A Size Sheet (Bottom)



OTES:

BASEMAP TAKEN FROM MANHATTAN-SURVEYING
CHITECTURAL SURVEY DATED JUNE 3, 2006 AND PARK LAYOUT
ID MATERIALS PLAN BY COSTAS KONDYLIS AND PARTNERS LLP
CHITECTS DATED OCTOBER 1, 2008.

MONITORING WELLS WERE RE-INSTALLED ON DECEMBER 28,
09. LOCATIONS ARE APPROXIMATE.

GEND

N2 — APPROXIMATE LOCATION OF MONITORING WELLS IN ACCORDANCE WITH SITE MANAGEMENT PLAN

SHEET PILE WALL

PROPERTY BOUNDARY (RIVER PLACE II)

30 0 15 30
SCALE IN FEET

ect

MONITORING WELL LOCATION MAP

RIVER PLACE I & II

YORK

No.	Date		NEW YORK

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TABLES

SAMPLING DATE LANGAN SAMPLE ID LAB SAMPLE ID	NYSI 010 2	3rd Quarter 2010 9/8/2010 MW-N2-9-8-10 L1013903-01		4th Quarter 2010 12/15/2010 MW-N2-12-15-10 L1020042-01	
Volatile Organics by GC/MS (µg/L) **Westborough Lab**					
1,2,4-Trimethylbenzene	D^{200}	620	U, D^{250}	620	D^{250}
1,3,5-Trimethylbenzene	D^{200}	620	U, D^{250}	620	U, D^{250}
Benzene		**2100**	D^{250}	**2400**	D^{250}
Ethylbenzene		**810**	D^{250}	**980**	D^{250}
Isopropylbenzene	D^{200}	120	U, D^{250}	120	U, D^{250}
Methylene chloride	D^{200}	1200	U, D^{250}	1200	U, D^{250}
Naphthalene		**12000**	D^{250}	**15000**	D^{250}
n-Butylbenzene	D^{200}	120	U, D^{250}	120	U, D^{250}
n-Propylbenzene	D^{200}	120	U	120	U
o-Xylene		**590**	D^{250}	**760**	D^{250}
p/m-Xylene		**1100**	D^{250}	**1400**	D^{250}
p-Isopropyltoluene	D^{200}	120	U, D^{250}	120	U, D^{250}
Styrene	D^{200}	250	U, D^{250}	250	U, D^{250}
Toluene	D^{200}	**290**	D^{250}	**420**	D^{250}

Notes:

- Groundwater samples were compared to New York State Environmental Conservation (NYSDEC) Technical and Oper Series (TOGS 1.1.1) Ambient Water Quality Standards (AW
- Values exceeding NYSDEC TOGS 1.1.1 AWQS are high
- Method Detection Limits (MDLs) are elevated above TOG
- µg/L: Micrograms per liter

* Monitoring well MW-S was destroyed during constructior

** Monitoring wells MW-N and MW-S were destroyed due to

Qualifiers:

U - Indicates the minimum detection Limit (MDL) is reported the analyte is less than the MDL.

D^x - Dillution factor of X

SAMPLING DATE LANGAN SAMPLE ID LAB SAMPLE ID	NYSI	10	3rd Quarter 2010 9/8/2010 MW-S2-9-8-10 L1013903-02		4th Quarter 2010 12/15/2010 MW-S2-12-15-10 L1020042-02	
Volatile Organics by GC/MS (µg/L) **Westborough Lab**						
1,2,4-Trimethylbenzene		50	150	U, D50	200	D50
1,3,5-Trimethylbenzene		D50	120	U, D50	120	U, D50
Benzene		50	110	D50	120	D50
Ethylbenzene		50	460	D50	560	D50
Isopropylbenzene		50	44	D50	63	D50
Methylene chloride		D50	250	U, D50	250	U, D50
Naphthalene		50	1900	D50	1100	D50
n-Butylbenzene		D50	25	U, D50	25	U, D50
n-Propylbenzene		50	30		37	D50
o-Xylene		50	70	D50	50	U, D50
p/m-Xylene		50	82	D50	50	U, D50
p-Isopropyltoluene		D50	25	U, D50	25	U, D50
Styrene		D50	50	U, D50	50	U, D50
Toluene		D50	38	U, D50	38	U, D50

Notes:

- Groundwater samples were compared to New York State I Environmental Conservation (NYSDEC) Technical and Opera Series (TOGS 1.1.1) Ambient Water Quality Standards (AWC
- Values exceeding NYSDEC TOGS 1.1.1 AWQS are highli
- Method Detection Limits (MDLs) are elevated above TOGS
- µg/L: Micrograms per liter

* Monitoring well MW-S was destroyed during construction

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Qualifiers:

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D^x - Dillution factor of X

SAMPLING DATE LANGAN SAMPLE ID LAB SAMPLE ID	NYSDEC TOGS AWQS	Quarter 2010 /10/2010 IP BLANK 008735-03		3rd Quarter 2010 9/8/2010 TRIP BLANK L1013903-03		4th Quarter 2010 12/15/2010 TRIP BLANK L1020042-03	
Volatile Organics by GC/MS (µg/L) **Westborough Lab**							
1,2,4-Trimethylbenzene	5	.5	U	2.5	U	2.5	U
1,3,5-Trimethylbenzene	5	.5	U	2.5	U	2.5	U
Benzene	1	.5	U	0.5	U	0.5	U
Ethylbenzene	5	.5	U	0.5	U	0.5	U
Isopropylbenzene	5	.5	U	0.5	U	0.5	U
Methylene chloride	5	5	U	5	U	5	U
Naphthalene	10	.5	U	2.5	U	2.5	U
n-Butylbenzene	5	.5	U	0.5	U	0.5	U
n-Propylbenzene	5	.5	U	0.5	U	0.5	U
o-Xylene	5	1	U	1	U	1	U
p/m-Xylene	5	1	U	1	U	1	U
p-Isopropyltoluene	5	.5	U	0.5	U	0.5	U
Styrene	5	1	U	1	U	1	U
Toluene	5	75	U	0.75	U	0.75	U

Notes:

- Groundwater samples were compared to New York State Department o Environmental Conservation (NYSDEC) Technical and Operations Guidan Series (TOGS 1.1.1) Ambient Water Quality Standards (AWQS).
- Values exceeding NYSDEC TOGS 1.1.1 AWQS are highlighted and B(
- Method Detection Limits (MDLs) are elevated above TOGS criteria in th
- µg/L: Micrograms per liter

* Monitoring well MW-S was destroyed during construction activities. No

** Monitoring wells MW-N and MW-S were destroyed due to construction

Qualifiers:

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D^x - Dillution factor of X

SAMPLING DATE LANGAN SAMPLE ID LAB SAMPLE ID	NYS	10 0	3rd Quarter 2010 9/8/2010 MW-N2-9-8-10 L1013903-01		4th Quarter 2010 12/15/2010 MW-N2-12-15-10 L1020042-01	
Semi-Volatile Organics (µg/L) **Westborough Lab**						
2,4-Dimethylphenol			**160**		10	U, D^{1}
Acenaphthene			**97**		**170**	D^{500}
Benzo(a)pyrene		U	80	U	100	U, D^{500}
Benzo(b)fluoranthene		$)^{20}$	80	U	100	U, D^{500}
Bis(2-Ethylhexyl)phthalate		U	5	U	**5**	D^{1}
Chrysene		D^{400}	80	U	100	U, D^{500}
Fluorene		$)^{20}$	80	U	100	D^{500}
Indeno(1,2,3-cd)Pyrene		$)^{20}$	NA		NA	
Naphthalene		$)^{20}$	**6900**		**9100**	D^{500}
Phenanthrene		$)^{20}$	80	U	100	D^{500}
Phenol			**27**		**16**	D^{1}

Notes:

- Groundwater samples were compared to New York State Environmental Conservation (NYSDEC) Technical and Oper (TOGS 1.1.1) Ambient Water Quality Standards (AWQS).
- Values exceeding NYSDEC TOGS 1.1.1 AWQS are high
- Method Detection Limits (MDLs) are elevated above TOG of the samples due to high levels of contamination.
- µg/L: Micrograms per liter

* Monitoring well MW-S was destroyed during construction available for the 3rd Quarter 2009.

** Monitoring wells MW-N and MW-S were destroyed due to Monitoring wells MW-N2 and MW-S2 were installed in the ap MW-N and MW-S once construction was complete. New mo are shown on Figure 2.

Qualifiers:

U - Indicates the minimum detection Limit (MDL) is reported. the analyte is less than the MDL.

D^{x} - Dillution factor of X

R1 - Analyte Results are from sample re-analysis

SAMPLING DATE LANGAN SAMPLE ID LAB SAMPLE ID	NYSDEC TOG AWQS	Quarter 2010 9/8/2010 W-S2-9-8-10 1013903-02		4th Quarter 2010 12/15/2010 MW-S2-12-15-10 L1020042-02		Quality Control 1st Quarter 3/16/2009 FB-3-16-09 L0903143-04	
Semi-Volatile Organics (µg/L) **Westborough Lab**							
2,4-Dimethylphenol	50	0	U	10	D^{50}	9.6	U
Acenaphthene	20	1		63	D^{50}	0.19	U
Benzo(a)pyrene	0	0	U	100	U, D^{50}	0.19	U
Benzo(b)fluoranthene	0.002	0	U	17	D^{50}	0.19	U
Bis(2-Ethylhexyl)phthalate	5	5	U	5	U, D^{5}	4.8	U
Chrysene	0.002	0	U	10	U, D^{5}	0.19	U
Fluorene	50	6		42	U, D^{5}	0.19	U
Indeno(1,2,3-cd)Pyrene		A		15	D^{50}	NA	
Naphthalene	10	0		400	D^{50}	0.34	
Phenanthrene	50	2		63	D^{50}	0.19	U
Phenol	1	7	U	7	D^{50}	6.7	U

Notes:

- Groundwater samples were compared to New York State Department Environmental Conservation (NYSDEC) Technical and Operations Guid (TOGS 1.1.1) Ambient Water Quality Standards (AWQS).
- Values exceeding NYSDEC TOGS 1.1.1 AWQS are highlighted and
- Method Detection Limits (MDLs) are elevated above TOGS criteria in of the samples due to high levels of contamination.
- µg/L: Micrograms per liter

* Monitoring well MW-S was destroyed during construction activities. N available for the 3rd Quarter 2009.

** Monitoring wells MW-N and MW-S were destroyed due to constructic Monitoring wells MW-N2 and MW-S2 were installed in the approximate l MW-N and MW-S once construction was complete. New monitoring we are shown on Figure 2.

Qualifiers:

U - Indicates the minimum detection Limit (MDL) is reported. The conce the analyte is less than the MDL.

D^{x} - Dilution factor of X

R1 - Analyte Results are from sample re-analysis

	I Quarter 2010		4th Quarter 2010	
LANGAN SAMPLE ID	W-N2-9-8-10		MW-N2-12-15-10	
SAMPLING DATE	N\ 9/8/2010		12/15/2010	
LAB SAMPLE ID	.1013903-01		L1020042-01	
Total Metals (µg/L) Wesborough Lab				
Iron, Total	00		12000	
Lead, Total	.0	U	67	
Magnesium, Total	000		86000	
Manganese, Total	28		816	
Mercury, Total	ID		0.3	U
Sodium, Total	000		240000	
Cyanide (ug/L) - Wesborough Lab				
Cyanide, Total	60	D^{10}	1680	D^{10}

Notes:

- Groundwater samples were compared to New Y Environmental Conservation (NYSDEC) Technical (TOGS 1.1.1) Ambient Water Quality Standards (A

- Values exceeding NYSDEC TOGS 1.1.1 AWQ:

- Method Detection Limits (MDLs) are elevated al the samples due to high levels of contamination

- µg/L: Micrograms per liter

* Monitoring well MW-S was destroyed during co available for the 3rd Quarter 2009.

** Monitoring wells MW-N and MW-S were destro Monitoring wells MW-N2 and MW-S2 were installe N and MW-S once construction was complete. Ne on Figure 2.

Qualifiers:

U - Indicates the minimum detection Limit (MDL) is analyte is less than the MDL.

D^X - Dilution factor of X

R1 - Analytical Results are from sample re-analysi

				Quality Control	
		0	4th Quarter 2010	1st Quarter	
LANGAN SAMPLE ID SAMPLING DATE LAB SAMPLE ID	NYSDEC		MW-S2-12-15-10 12/15/2010 L1020042-02	FB-3-16-09 3/16/2009 L0903143-04	
Total Metals (µg/L) **Wesborough Lab**					
Iron, Total			12000	50	U
Lead, Total			166	10	U
Magnesium, Total			84000	100	U
Manganese, Total			558	10	U
Mercury, Total			0.9	0.2	U
Sodium, Total			67000	2000	U
Cyanide (ug/L) - Wesborough Lab					
Cyanide, Total			1410 D^{10}	5	U, D^{5}

Notes:

- Groundwater samples were compared to New York State Environmental Conservation (NYSDEC) Technical and Oper (TOGS 1.1.1) Ambient Water Quality Standards (AWQS).
- Values exceeding NYSDEC TOGS 1.1.1 AWQS are high
- Method Detection Limits (MDLs) are elevated above TOG the samples due to high levels of contamination
- µg/L: Micrograms per liter

* Monitoring well MW-S was destroyed during constructio available for the 3rd Quarter 2009.

** Monitoring wells MW-N and MW-S were destroyed due t Monitoring wells MW-N2 and MW-S2 were installed in the a N and MW-S once construction was complete. New monito on Figure 2.

Qualifiers:

U - Indicates the minimum detection Limit (MDL) is reported analyte is less than the MDL.

D^{X} - Dillution factor of X

R1 - Analytical Results are from sample re-analysis

Attachment A

GROUND WATER SAMPLE FIELD INFORMATION FORM

Site:	Riverplace I and II	**Well#/Location:**	MW-S2	**Job No.**	170040901
Date:	12/15/2010	**Weather:**	24°F, Partly Cloudy	**Sampling Personnel:**	S. Flanagan

Well Information	
Sample ID	MW-S2-12-15-10
Well Depth (ft)	19
Screened Interval (ft)	15
Casing Elevation (msl)	-
Casing Diameter (in)	2
Depth to Water (ft)	9.57
Water Elevation (msl)	-
Casing Volume (gal)	1.57
PID/FID Reading (ppm)	-

Purging Information	
Purging Method	Wattera Pump
Purging Rate (gpm)	0.11
Start Purge Time	12:55 PM
End Purge Time	2:10 PM
Volume Purged (gal)	8

Sampling Information	
Sampling Method	Wettera Pump
Start Sampling Time	2:10 PM
End Sampling Time	2:25 PM
Depth Before Sampling (ft)	11.01
Number Bottles Collected	7

	Parameters								
Sample Time	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temp (°C)**	**ORP (mV)**	**Depth to Water (ft)**	**Purged Volume (gallons)**	**Notes**
12:55	7.34	2.26	-5.0*	0.00	10.00	-104	9.57		silty, slight sheen, petroleum odor
13:00	6.91	2.21	-5.0*	0.00	14.71	-147			some silt, slight sheen, petro odor
13:10	6.96	2.41	-5.0*	0.00	9.09	-155			some silt, slight sheen, petro odor
13:15	6.88	2.34	-5.0*	0.00	15.76	-165			some silt, slight sheen, petro odor
13:20	6.91	2.31	325	0.00	16.06	-208			some silt, slight sheen, petro odor
13:25	6.95	2.26	430	0.00	16.12	-229			some silt, slight sheen, petro odor
13:30	6.97	2.17	-5.0*	0.00	15.82	-243			some silt, slight sheen, petro odor
13:35	7.02	2.05	-5.0*	0.00	15.70	-254			some silt, slight sheen, petro odor
13:40	7.08	2.08	-5.0*	0.00	14.43	-192			some silt, slight sheen, petro odor
13:45	7.12	2.08	921	0.00	14.48	-184	14.55		some silt, slight sheen, petro odor
13:50	7.13	2.09	752	0.00	14.49	-182			some silt, slight sheen, petro odor
13:55	7.14	2.10	707	0.00	14.16	-177			some silt, slight sheen, petro odor
14:00	7.16	2.12	529	0.08	13.63	-174			some silt, slight sheen, petro odor
14:05	7.15	2.12	521	0.02	13.88	-174	11.0	8	some silt, slight sheen, petro odor

Notes/Remarks

* After 1.25 hours of purging the monitoring well the turbidity did not drop below 50 NTU's. The sample was collect at 14:15 AM

Slight Sheen and petroleum odors were observed in purge water.

Langan Engineering and Environmental Services

GROUND WATER SAMPLE FIELD INFORMATION FORM

Site:	Riverplace I and II	**Well#/Location:**	MW-N2	**Job No.**	170040901
Date:	12/15/2010	**Weather:**	24°F, Partly Cloudy	**Sampling Personnel:**	S. Flanagan

Well Information	
Sample ID	MW-N2-12-15-10
Well Depth (ft)	19.51
Screened Interval (ft)	15
Casing Elevation (msl)	-
Casing Diameter (in)	2
Depth to Water (ft)	10.39
Water Elevation (msl)	-
Casing Volume (gal)	1.49
PID/FID Reading (ppm)	-

Purging Information	
Purging Method	Wattera Pump
Purging Rate (gpm)	0.069
Start Purge Time	9:35 AM
End Purge Time	11:40 AM
Volume Purged (gal)	10

Sampling Information	
Sampling Method	Wettera Pump
Start Sampling Time	11:40 AM
End Sampling Time	11:55 AM
Depth Before Sampling (ft)	11.10
Number Bottles Collected	7

	Parameters								
Sample Time	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temp (°C)**	**ORP (mV)**	**Depth to Water (ft)**	**Purged Volume (gallons)**	**Notes**
9:35	7.46	0.00	142.0	8.94	10.00	-73	10.39		silty
9:45	7.00	1.86	112.0	0.00	12.30	-136			trace silt
9:50	6.94	2.36	124.0	0.00	12.95	-170			clear
9:55	6.93	2.55	136.0	0.00	12.94	-191			clear
10:00	7.21	2.60	149.0	1.10	-	-			clear
10:40	7.13	2.22	159.0	0.00	13.54	-147			clear
10:45	7.07	2.38	110.0	0.00	13.79	-176			clear
10:50	7.12	2.84	70.4	0.00	7.71	-190			clear
10:55	7.17	2.73	68.2	0.00	7.40	-193			clear
11:00	7.20	2.71	65.9	0.00	7.45	-192			clear
11:05	7.21	2.71	65.2	0.00	7.06	-192	11.09		clear
11:10	7.22	2.73	60.6	0.00	6.92	-195			clear
11:15	7.22	2.68	64.5	0.00	7.77	-196			clear
11:20	7.21	2.62	68.5	0.00	8.70	-183			clear
11:25	7.18	2.62	60.6	0.00	10.54	-202			clear
11:30	7.18	2.78	48.2	0.00	10.51	-209			clear
11:35	7.21	2.93	49.8	0.00	8.90	-213			clear
11:40	7.20	2.87	69.0	0.00	10.00	-215	11.1	10	clear

Notes/Remarks

* After 2 hours of purging the monitoring well the turbidity did not drop below 50 NTU's. The sample was collect at 11:45 AM

Attachment B

ALPHA ANALYTICAL

ANALYTICAL REPORT

Lab Number:	L1020042
Client:	Langan Engineering and Environmental Ser 21 Penn Plaza 360 W. 31st Street 8th Floor New York, NY 10001-2727
ATTN:	Jason Canouse
Phone:	(212) 479-5466
Project Name:	RIVER PLACE I/II
Project Number:	170040901
Report Date:	12/22/10

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Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1020042-01	MW-N2-12-15-10	W 42ND ST., NY, NY	12/15/10 11:45
L1020042-02	MW-S2-12-15-10	W 42ND ST., NY, NY	12/15/10 14:45
L1020042-03	TB-12-15-10	W 42ND ST., NY, NY	12/15/10 00:00

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Sample Receipt

L1020042-02: Headspace was noted in the sample containers submitted for Volatile Organics. The analysis was performed at the client's request.

Volatile Organics

L1020042-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

Semivolatile Organics

The surrogate recovery for L1020042-01 was outside the acceptance criteria for 2-Fluorobiphenyl (207%); however, re-extraction could not be performed due to lack of additional sample (a previous extraction of this sample had multiple QC failures with the Method Blank, LCS and LCSD).

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Case Narrative (continued)

The WG448748-2/-3 LCS/LCSD RPD, associated with L1020042-01 and -02, is above the acceptance criteria for 4-Nitrophenol (34%); however, the individual LCS/LCSD recoveries are within method limits.

Semivolatile Organics-SIM

L1020042-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

The surrogate recoveries for L1020042-01 and -02 are below the acceptance criteria for 2-Fluorophenol, Phenol-d6, Nitrobenzene-d5, 2-Fluorobiphenyl, 2,4,6-Tribromophenol and 4-Terphenyl-d14 (all at 0%) due to the dilutions required to quantitate the samples. Re-extraction is not required; therefore, the results of the original analyses are reported.

Cyanide, Total

L1020042-01 and -02 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

The WG448585-4/-5 MS/MSD recoveries for Cyanide (190%/155%), performed on L1020042-02, do not apply because the sample concentration is greater than four times the spike amount added.

Cyanide, Physiologically Available

L1020042-01 and -02 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative

Date: 12/22/10

ORGANICS

VOLATILES

Project Name: RIVER PLACE I/II
Project Number: 170040901
Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-01 D
Client ID: MW-N2-12-15-10
Sample Location: W 42ND ST., NY, NY
Matrix: Water
Analytical Method: 1,8260B
Analytical Date: 12/21/10 22:07
Analyst: PD

Date Collected: 12/15/10 11:45
Date Received: 12/15/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1200	--	250
1,1-Dichloroethane	ND		ug/l	190	--	250
Chloroform	ND		ug/l	190	--	250
Carbon tetrachloride	ND		ug/l	120	--	250
1,2-Dichloropropane	ND		ug/l	440	--	250
Dibromochloromethane	ND		ug/l	120	--	250
1,1,2-Trichloroethane	ND		ug/l	190	--	250
Tetrachloroethene	ND		ug/l	120	--	250
Chlorobenzene	ND		ug/l	120	--	250
Trichlorofluoromethane	ND		ug/l	620	--	250
1,2-Dichloroethane	ND		ug/l	120	--	250
1,1,1-Trichloroethane	ND		ug/l	120	--	250
Bromodichloromethane	ND		ug/l	120	--	250
trans-1,3-Dichloropropene	ND		ug/l	120	--	250
cis-1,3-Dichloropropene	ND		ug/l	120	--	250
1,1-Dichloropropene	ND		ug/l	620	--	250
Bromoform	ND		ug/l	500	--	250
1,1,2,2-Tetrachloroethane	ND		ug/l	120	--	250
Benzene	2400		ug/l	120	--	250
Toluene	420		ug/l	190	--	250
Ethylbenzene	980		ug/l	120	--	250
Chloromethane	ND		ug/l	620	--	250
Bromomethane	ND		ug/l	250	--	250
Vinyl chloride	ND		ug/l	250	--	250
Chloroethane	ND		ug/l	250	--	250
1,1-Dichloroethene	ND		ug/l	120	--	250
trans-1,2-Dichloroethene	ND		ug/l	190	--	250
Trichloroethene	ND		ug/l	120	--	250
1,2-Dichlorobenzene	ND		ug/l	620	--	250
1,3-Dichlorobenzene	ND		ug/l	620	--	250

Project Name: RIVER PLACE I/II **Lab Number:** L1020042

Project Number: 170040901 **Report Date:** 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-01 D Date Collected: 12/15/10 11:45

Client ID: MW-N2-12-15-10 Date Received: 12/15/10

Sample Location: W 42ND ST., NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	620	--	250
Methyl tert butyl ether	ND		ug/l	250	--	250
p/m-Xylene	1400		ug/l	250	--	250
o-Xylene	760		ug/l	250	--	250
cis-1,2-Dichloroethene	ND		ug/l	120	--	250
Dibromomethane	ND		ug/l	1200	--	250
1,2,3-Trichloropropane	ND		ug/l	1200	--	250
Acrylonitrile	ND		ug/l	1200	--	250
Styrene	ND		ug/l	250	--	250
Dichlorodifluoromethane	ND		ug/l	1200	--	250
Acetone	ND		ug/l	1200	--	250
Carbon disulfide	ND		ug/l	1200	--	250
2-Butanone	ND		ug/l	1200	--	250
Vinyl acetate	ND		ug/l	1200	--	250
4-Methyl-2-pentanone	ND		ug/l	1200	--	250
2-Hexanone	ND		ug/l	1200	--	250
Bromochloromethane	ND		ug/l	620	--	250
2,2-Dichloropropane	ND		ug/l	620	--	250
1,2-Dibromoethane	ND		ug/l	500	--	250
1,3-Dichloropropane	ND		ug/l	620	--	250
1,1,1,2-Tetrachloroethane	ND		ug/l	120	--	250
Bromobenzene	ND		ug/l	620	--	250
n-Butylbenzene	ND		ug/l	120	--	250
sec-Butylbenzene	ND		ug/l	120	--	250
tert-Butylbenzene	ND		ug/l	620	--	250
o-Chlorotoluene	ND		ug/l	620	--	250
p-Chlorotoluene	ND		ug/l	620	--	250
1,2-Dibromo-3-chloropropane	ND		ug/l	620	--	250
Hexachlorobutadiene	ND		ug/l	150	--	250
Isopropylbenzene	ND		ug/l	120	--	250
p-Isopropyltoluene	ND		ug/l	120	--	250
Naphthalene	15000		ug/l	620	--	250
n-Propylbenzene	ND		ug/l	120	--	250
1,2,3-Trichlorobenzene	ND		ug/l	620	--	250
1,2,4-Trichlorobenzene	ND		ug/l	620	--	250
1,3,5-Trimethylbenzene	ND		ug/l	620	--	250
1,2,4-Trimethylbenzene	ND		ug/l	620	--	250

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-01 D
Client ID: MW-N2-12-15-10
Sample Location: W 42ND ST., NY, NY

Date Collected: 12/15/10 11:45
Date Received: 12/15/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Diethylbenzene	ND		ug/l	500	--	250
4-Ethyltoluene	ND		ug/l	500	--	250
1,2,4,5-Tetramethylbenzene	ND		ug/l	500	--	250
Ethyl ether	ND		ug/l	620	--	250
trans-1,4-Dichloro-2-butene	ND		ug/l	620	--	250

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	89		70-130

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-02 D
Client ID: MW-S2-12-15-10
Sample Location: W 42ND ST., NY, NY
Matrix: Water
Analytical Method: 1,8260B
Analytical Date: 12/21/10 22:42
Analyst: PD

Date Collected: 12/15/10 14:45
Date Received: 12/15/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	250	--	50
1,1-Dichloroethane	ND		ug/l	38	--	50
Chloroform	ND		ug/l	38	--	50
Carbon tetrachloride	ND		ug/l	25	--	50
1,2-Dichloropropane	ND		ug/l	88	--	50
Dibromochloromethane	ND		ug/l	25	--	50
1,1,2-Trichloroethane	ND		ug/l	38	--	50
Tetrachloroethene	ND		ug/l	25	--	50
Chlorobenzene	ND		ug/l	25	--	50
Trichlorofluoromethane	ND		ug/l	120	--	50
1,2-Dichloroethane	ND		ug/l	25	--	50
1,1,1-Trichloroethane	ND		ug/l	25	--	50
Bromodichloromethane	ND		ug/l	25	--	50
trans-1,3-Dichloropropene	ND		ug/l	25	--	50
cis-1,3-Dichloropropene	ND		ug/l	25	--	50
1,1-Dichloropropene	ND		ug/l	120	--	50
Bromoform	ND		ug/l	100	--	50
1,1,2,2-Tetrachloroethane	ND		ug/l	25	--	50
Benzene	120		ug/l	25	--	50
Toluene	ND		ug/l	38	--	50
Ethylbenzene	560		ug/l	25	--	50
Chloromethane	ND		ug/l	120	--	50
Bromomethane	ND		ug/l	50	--	50
Vinyl chloride	ND		ug/l	50	--	50
Chloroethane	ND		ug/l	50	--	50
1,1-Dichloroethene	ND		ug/l	25	--	50
trans-1,2-Dichloroethene	ND		ug/l	38	--	50
Trichloroethene	ND		ug/l	25	--	50
1,2-Dichlorobenzene	ND		ug/l	120	--	50
1,3-Dichlorobenzene	ND		ug/l	120	--	50

Project Name: RIVER PLACE I/II **Lab Number:** L1020042

Project Number: 170040901 **Report Date:** 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-02 D Date Collected: 12/15/10 14:45

Client ID: MW-S2-12-15-10 Date Received: 12/15/10

Sample Location: W 42ND ST., NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	120	--	50
Methyl tert butyl ether	ND		ug/l	50	--	50
p/m-Xylene	ND		ug/l	50	--	50
o-Xylene	ND		ug/l	50	--	50
cis-1,2-Dichloroethene	ND		ug/l	25	--	50
Dibromomethane	ND		ug/l	250	--	50
1,2,3-Trichloropropane	ND		ug/l	250	--	50
Acrylonitrile	ND		ug/l	250	--	50
Styrene	ND		ug/l	50	--	50
Dichlorodifluoromethane	ND		ug/l	250	--	50
Acetone	ND		ug/l	250	--	50
Carbon disulfide	ND		ug/l	250	--	50
2-Butanone	ND		ug/l	250	--	50
Vinyl acetate	ND		ug/l	250	--	50
4-Methyl-2-pentanone	ND		ug/l	250	--	50
2-Hexanone	ND		ug/l	250	--	50
Bromochloromethane	ND		ug/l	120	--	50
2,2-Dichloropropane	ND		ug/l	120	--	50
1,2-Dibromoethane	ND		ug/l	100	--	50
1,3-Dichloropropane	ND		ug/l	120	--	50
1,1,1,2-Tetrachloroethane	ND		ug/l	25	--	50
Bromobenzene	ND		ug/l	120	--	50
n-Butylbenzene	ND		ug/l	25	--	50
sec-Butylbenzene	ND		ug/l	25	--	50
tert-Butylbenzene	ND		ug/l	120	--	50
o-Chlorotoluene	ND		ug/l	120	--	50
p-Chlorotoluene	ND		ug/l	120	--	50
1,2-Dibromo-3-chloropropane	ND		ug/l	120	--	50
Hexachlorobutadiene	ND		ug/l	30	--	50
Isopropylbenzene	63		ug/l	25	--	50
p-Isopropyltoluene	ND		ug/l	25	--	50
Naphthalene	1100		ug/l	120	--	50
n-Propylbenzene	37		ug/l	25	--	50
1,2,3-Trichlorobenzene	ND		ug/l	120	--	50
1,2,4-Trichlorobenzene	ND		ug/l	120	--	50
1,3,5-Trimethylbenzene	ND		ug/l	120	--	50
1,2,4-Trimethylbenzene	200		ug/l	120	--	50

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-02 D
Client ID: MW-S2-12-15-10
Sample Location: W 42ND ST., NY, NY

Date Collected: 12/15/10 14:45
Date Received: 12/15/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Diethylbenzene	ND		ug/l	100	--	50
4-Ethyltoluene	ND		ug/l	100	--	50
1,2,4,5-Tetramethylbenzene	ND		ug/l	100	--	50
Ethyl ether	ND		ug/l	120	--	50
trans-1,4-Dichloro-2-butene	ND		ug/l	120	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	89		70-130

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-03
Client ID: TB-12-15-10
Sample Location: W 42ND ST., NY, NY
Matrix: Water
Analytical Method: 1,8260B
Analytical Date: 12/21/10 21:33
Analyst: PD

Date Collected: 12/15/10 00:00
Date Received: 12/15/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: RIVER PLACE I/II **Lab Number:** L1020042

Project Number: 170040901 **Report Date:** 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-03 Date Collected: 12/15/10 00:00

Client ID: TB-12-15-10 Date Received: 12/15/10

Sample Location: W 42ND ST., NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-03
Client ID: TB-12-15-10
Sample Location: W 42ND ST., NY, NY

Date Collected: 12/15/10 00:00
Date Received: 12/15/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Diethylbenzene	ND		ug/l	2.0	--	1
4-Ethyltoluene	ND		ug/l	2.0	--	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	94		70-130

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 12/21/10 15:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG448976-3					
Methylene chloride	ND		ug/l	5.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Chloroform	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	1.8	--
Dibromochloromethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
Tetrachloroethene	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	2.5	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.5	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.5	--
Bromomethane	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	2.5	--
1,3-Dichlorobenzene	ND		ug/l	2.5	--
1,4-Dichlorobenzene	ND		ug/l	2.5	--

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 12/21/10 15:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG448976-3					
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	5.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.5	--
2,2-Dichloropropane	ND		ug/l	2.5	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.5	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	2.5	--
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	2.5	--

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 12/21/10 15:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG448976-3					
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
1,4-Diethylbenzene	ND		ug/l	2.0	--
4-Ethyltoluene	ND		ug/l	2.0	--
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG448976-1 WG448976-2								
Chlorobenzene	95		92		75-130	3		20
Benzene	96		93		76-127	3		20
Toluene	94		92		76-125	2		20
1,1-Dichloroethene	83		79		61-145	5		20
Trichloroethene	88		85		71-120	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		96		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	87		87		70-130
Dibromofluoromethane	99		101		70-130

SEMIVOLATILES

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID:	L1020042-01	Date Collected:	12/15/10 11:45
Client ID:	MW-N2-12-15-10	Date Received:	12/15/10
Sample Location:	W 42ND ST., NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	12/21/10 08:07
Analytical Date:	12/21/10 14:00		
Analyst:	JB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	--	1
1,2-Dichlorobenzene	ND		ug/l	5.0	--	1
1,3-Dichlorobenzene	ND		ug/l	5.0	--	1
1,4-Dichlorobenzene	ND		ug/l	5.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	50	--	1
2,4-Dinitrotoluene	ND		ug/l	6.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorocyclopentadiene	ND		ug/l	30	--	1
Isophorone	ND		ug/l	5.0	--	1
Nitrobenzene	ND		ug/l	5.0	--	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	--	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--	1
Bis(2-Ethylhexyl)phthalate	5.0		ug/l	5.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Biphenyl	52		ug/l	5.0	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
2-Nitroaniline	ND		ug/l	5.0	--	1
3-Nitroaniline	ND		ug/l	5.0	--	1
4-Nitroaniline	ND		ug/l	7.0	--	1
Dibenzofuran	88		ug/l	5.0	--	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	--	1

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-01
Client ID: MW-N2-12-15-10
Sample Location: W 42ND ST., NY, NY

Date Collected: 12/15/10 11:45
Date Received: 12/15/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	20	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
P-Chloro-M-Cresol	ND		ug/l	5.0	--	1
2-Chlorophenol	ND		ug/l	6.0	--	1
2,4-Dichlorophenol	ND		ug/l	10	--	1
2,4-Dimethylphenol	ND		ug/l	10	--	1
2-Nitrophenol	ND		ug/l	20	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	30	--	1
4,6-Dinitro-o-cresol	ND		ug/l	20	--	1
Phenol	16		ug/l	7.0	--	1
2-Methylphenol	ND		ug/l	6.0	--	1
3-Methylphenol/4-Methylphenol	36		ug/l	6.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1
Benzoic Acid	ND		ug/l	50	--	1
Benzyl Alcohol	ND		ug/l	10	--	1
Carbazole	160		ug/l	5.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	**207**	Q	15-120
2,4,6-Tribromophenol	100		10-120
4-Terphenyl-d14	92		33-120

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID:	L1020042-01 D	Date Collected:	12/15/10 11:45
Client ID:	MW-N2-12-15-10	Date Received:	12/15/10
Sample Location:	W 42ND ST., NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	12/21/10 08:13
Analytical Date:	12/22/10 12:06		
Analyst:	JC		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	170		ug/l	100	--	500
2-Chloronaphthalene	ND		ug/l	100	--	500
Fluoranthene	ND		ug/l	100	--	500
Hexachlorobutadiene	ND		ug/l	250	--	500
Naphthalene	9100		ug/l	100	--	500
Benzo(a)anthracene	ND		ug/l	100	--	500
Benzo(a)pyrene	ND		ug/l	100	--	500
Benzo(b)fluoranthene	ND		ug/l	100	--	500
Benzo(k)fluoranthene	ND		ug/l	100	--	500
Chrysene	ND		ug/l	100	--	500
Acenaphthylene	ND		ug/l	100	--	500
Anthracene	ND		ug/l	100	--	500
Benzo(ghi)perylene	ND		ug/l	100	--	500
Fluorene	ND		ug/l	100	--	500
Phenanthrene	ND		ug/l	100	--	500
Dibenzo(a,h)anthracene	ND		ug/l	100	--	500
Indeno(1,2,3-cd)Pyrene	ND		ug/l	100	--	500
Pyrene	ND		ug/l	100	--	500
2-Methylnaphthalene	320		ug/l	100	--	500
Pentachlorophenol	ND		ug/l	400	--	500
Hexachlorobenzene	ND		ug/l	400	--	500
Hexachloroethane	ND		ug/l	400	--	500

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-01 D
Client ID: MW-N2-12-15-10
Sample Location: W 42ND ST., NY, NY

Date Collected: 12/15/10 11:45
Date Received: 12/15/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	21-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	15-120
2,4,6-Tribromophenol	0	Q	10-120
4-Terphenyl-d14	0	Q	33-120

Serial_No:12221019:19

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-02
Client ID: MW-S2-12-15-10
Sample Location: W 42ND ST., NY, NY
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 12/21/10 14:25
Analyst: JB

Date Collected: 12/15/10 14:45
Date Received: 12/15/10
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 12/21/10 08:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	--	1
1,2-Dichlorobenzene	ND		ug/l	5.0	--	1
1,3-Dichlorobenzene	ND		ug/l	5.0	--	1
1,4-Dichlorobenzene	ND		ug/l	5.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	50	--	1
2,4-Dinitrotoluene	ND		ug/l	6.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorocyclopentadiene	ND		ug/l	30	--	1
Isophorone	ND		ug/l	5.0	--	1
Nitrobenzene	ND		ug/l	5.0	--	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	--	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Biphenyl	55		ug/l	5.0	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
2-Nitroaniline	ND		ug/l	5.0	--	1
3-Nitroaniline	ND		ug/l	5.0	--	1
4-Nitroaniline	ND		ug/l	7.0	--	1
Dibenzofuran	19		ug/l	5.0	--	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	--	1

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-02
Client ID: MW-S2-12-15-10
Sample Location: W 42ND ST., NY, NY

Date Collected: 12/15/10 14:45
Date Received: 12/15/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	20	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
P-Chloro-M-Cresol	ND		ug/l	5.0	--	1
2-Chlorophenol	ND		ug/l	6.0	--	1
2,4-Dichlorophenol	ND		ug/l	10	--	1
2,4-Dimethylphenol	ND		ug/l	10	--	1
2-Nitrophenol	ND		ug/l	20	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	30	--	1
4,6-Dinitro-o-cresol	ND		ug/l	20	--	1
Phenol	ND		ug/l	7.0	--	1
2-Methylphenol	ND		ug/l	6.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1
Benzoic Acid	ND		ug/l	50	--	1
Benzyl Alcohol	ND		ug/l	10	--	1
Carbazole	38		ug/l	5.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	98		10-120
4-Terphenyl-d14	93		33-120

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID:	L1020042-02	D	Date Collected:	12/15/10 14:45
Client ID:	MW-S2-12-15-10		Date Received:	12/15/10
Sample Location:	W 42ND ST., NY, NY		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	1,8270C		Extraction Date:	12/21/10 08:13
Analytical Date:	12/22/10 12:34			
Analyst:	JC			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	63		ug/l	10	--	50
2-Chloronaphthalene	ND		ug/l	10	--	50
Fluoranthene	18		ug/l	10	--	50
Hexachlorobutadiene	ND		ug/l	25	--	50
Naphthalene	400		ug/l	10	--	50
Benzo(a)anthracene	18		ug/l	10	--	50
Benzo(a)pyrene	17		ug/l	10	--	50
Benzo(b)fluoranthene	17		ug/l	10	--	50
Benzo(k)fluoranthene	ND		ug/l	10	--	50
Chrysene	ND		ug/l	10	--	50
Acenaphthylene	ND		ug/l	10	--	50
Anthracene	14		ug/l	10	--	50
Benzo(ghi)perylene	11		ug/l	10	--	50
Fluorene	42		ug/l	10	--	50
Phenanthrene	63		ug/l	10	--	50
Dibenzo(a,h)anthracene	ND		ug/l	10	--	50
Indeno(1,2,3-cd)Pyrene	15		ug/l	10	--	50
Pyrene	25		ug/l	10	--	50
2-Methylnaphthalene	25		ug/l	10	--	50
Pentachlorophenol	ND		ug/l	40	--	50
Hexachlorobenzene	ND		ug/l	40	--	50
Hexachloroethane	ND		ug/l	40	--	50

Project Name: RIVER PLACE I/II **Lab Number:** L1020042

Project Number: 170040901 **Report Date:** 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-02 D Date Collected: 12/15/10 14:45

Client ID: MW-S2-12-15-10 Date Received: 12/15/10

Sample Location: W 42ND ST., NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	21-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	15-120
2,4,6-Tribromophenol	0	Q	10-120
4-Terphenyl-d14	0	Q	33-120

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 12/21/10 13:58
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 12/21/10 08:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG448748-1					
Acenaphthene	ND		ug/l	5.0	--
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--
Hexachlorobenzene	ND		ug/l	5.0	--
Bis(2-chloroethyl)ether	ND		ug/l	5.0	--
2-Chloronaphthalene	ND		ug/l	6.0	--
1,2-Dichlorobenzene	ND		ug/l	5.0	--
1,3-Dichlorobenzene	ND		ug/l	5.0	--
1,4-Dichlorobenzene	ND		ug/l	5.0	--
3,3'-Dichlorobenzidine	ND		ug/l	50	--
2,4-Dinitrotoluene	ND		ug/l	6.0	--
2,6-Dinitrotoluene	ND		ug/l	5.0	--
Fluoranthene	ND		ug/l	5.0	--
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	--
4-Bromophenyl phenyl ether	ND		ug/l	5.0	--
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	--
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--
Hexachlorobutadiene	ND		ug/l	10	--
Hexachlorocyclopentadiene	ND		ug/l	30	--
Hexachloroethane	ND		ug/l	5.0	--
Isophorone	ND		ug/l	5.0	--
Naphthalene	ND		ug/l	5.0	--
Nitrobenzene	ND		ug/l	5.0	--
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	--
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	--
Butyl benzyl phthalate	ND		ug/l	5.0	--
Di-n-butylphthalate	ND		ug/l	5.0	--
Di-n-octylphthalate	ND		ug/l	5.0	--
Diethyl phthalate	ND		ug/l	5.0	--
Dimethyl phthalate	ND		ug/l	5.0	--
Benzo(a)anthracene	ND		ug/l	5.0	--

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 12/21/10 13:58
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 12/21/10 08:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG448748-1					
Benzo(a)pyrene	ND		ug/l	5.0	--
Benzo(b)fluoranthene	ND		ug/l	5.0	--
Benzo(k)fluoranthene	ND		ug/l	5.0	--
Chrysene	ND		ug/l	5.0	--
Acenaphthylene	ND		ug/l	5.0	--
Anthracene	ND		ug/l	5.0	--
Benzo(ghi)perylene	ND		ug/l	5.0	--
Fluorene	ND		ug/l	5.0	--
Phenanthrene	ND		ug/l	5.0	--
Dibenzo(a,h)anthracene	ND		ug/l	5.0	--
Indeno(1,2,3-cd)Pyrene	ND		ug/l	7.0	--
Pyrene	ND		ug/l	5.0	--
Biphenyl	ND		ug/l	5.0	--
4-Chloroaniline	ND		ug/l	5.0	--
2-Nitroaniline	ND		ug/l	5.0	--
3-Nitroaniline	ND		ug/l	5.0	--
4-Nitroaniline	ND		ug/l	7.0	--
Dibenzofuran	ND		ug/l	5.0	--
2-Methylnaphthalene	ND		ug/l	5.0	--
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	--
Acetophenone	ND		ug/l	20	--
2,4,6-Trichlorophenol	ND		ug/l	5.0	--
P-Chloro-M-Cresol	ND		ug/l	5.0	--
2-Chlorophenol	ND		ug/l	6.0	--
2,4-Dichlorophenol	ND		ug/l	10	--
2,4-Dimethylphenol	ND		ug/l	10	--
2-Nitrophenol	ND		ug/l	20	--
4-Nitrophenol	ND		ug/l	10	--
2,4-Dinitrophenol	ND		ug/l	30	--
4,6-Dinitro-o-cresol	ND		ug/l	20	--
Pentachlorophenol	ND		ug/l	10	--

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 12/21/10 13:58
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 12/21/10 08:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG448748-1					
Phenol	ND		ug/l	7.0	--
2-Methylphenol	ND		ug/l	6.0	--
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	--
2,4,5-Trichlorophenol	ND		ug/l	5.0	--
Benzoic Acid	ND		ug/l	50	--
Benzyl Alcohol	ND		ug/l	10	--
Carbazole	ND		ug/l	5.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	95		33-120

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 12/21/10 14:12
Analyst: JC

Extraction Method: EPA 3510C
Extraction Date: 12/21/10 08:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG448750-1					
Acenaphthene	ND		ug/l	0.20	--
2-Chloronaphthalene	ND		ug/l	0.20	--
Fluoranthene	ND		ug/l	0.20	--
Hexachlorobutadiene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	0.20	--
Benzo(a)anthracene	ND		ug/l	0.20	--
Benzo(a)pyrene	ND		ug/l	0.20	--
Benzo(b)fluoranthene	ND		ug/l	0.20	--
Benzo(k)fluoranthene	ND		ug/l	0.20	--
Chrysene	ND		ug/l	0.20	--
Acenaphthylene	ND		ug/l	0.20	--
Anthracene	ND		ug/l	0.20	--
Benzo(ghi)perylene	ND		ug/l	0.20	--
Fluorene	ND		ug/l	0.20	--
Phenanthrene	ND		ug/l	0.20	--
Dibenzo(a,h)anthracene	ND		ug/l	0.20	--
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	--
Pyrene	ND		ug/l	0.20	--
2-Methylnaphthalene	ND		ug/l	0.20	--
Pentachlorophenol	ND		ug/l	0.80	--
Hexachlorobenzene	ND		ug/l	0.80	--
Hexachloroethane	ND		ug/l	0.80	--

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 12/21/10 14:12
Analyst: JC

Extraction Method: EPA 3510C
Extraction Date: 12/21/10 08:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG448750-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	56		10-120
4-Terphenyl-d14	62		33-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG448748-2 WG448748-3								
Acenaphthene	82		71		46-118	14		30
1,2,4-Trichlorobenzene	68		57		39-98	18		30
2-Chloronaphthalene	88		76		40-140	15		30
1,2-Dichlorobenzene	68		57		40-140	18		30
1,4-Dichlorobenzene	65		56		36-97	15		30
2,4-Dinitrotoluene	94		86		24-96	9		30
2,6-Dinitrotoluene	84		78		40-140	7		30
Fluoranthene	96		87		40-140	10		30
4-Chlorophenyl phenyl ether	86		74		40-140	15		30
n-Nitrosodi-n-propylamine	78		67		41-116	15		30
Butyl benzyl phthalate	99		92		40-140	7		30
Anthracene	98		89		40-140	10		30
Pyrene	91		84		26-127	8		30
P-Chloro-M-Cresol	88		76		23-97	15		30
2-Chlorophenol	77		63		27-123	20		30
2-Nitrophenol	75		62		30-130	19		30
4-Nitrophenol	69		49		10-80	34	Q	30
2,4-Dinitrophenol	55		55		20-130	0		30
Pentachlorophenol	80		74		9-103	8		30
Phenol	57		45		12-110	24		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG448748-2 WG448748-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		54		21-120
Phenol-d6	48		40		10-120
Nitrobenzene-d5	75		63		23-120
2-Fluorobiphenyl	79		68		15-120
2,4,6-Tribromophenol	94		82		10-120
4-Terphenyl-d14	95		87		33-120

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG448750-2 WG448750-3								
Acenaphthene	65		64		37-111	2		40
2-Chloronaphthalene	70		69		40-140	1		40
Fluoranthene	94		96		40-140	2		40
Anthracene	93		93		40-140	0		40
Pyrene	86		88		26-127	2		40
Pentachlorophenol	87		85		9-103	2		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG448750-2 WG448750-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	46		43		21-120
Phenol-d6	26		27		10-120
Nitrobenzene-d5	66		64		23-120
2-Fluorobiphenyl	58		57		15-120
2,4,6-Tribromophenol	75		75		10-120
4-Terphenyl-d14	76		78		33-120

METALS

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-01
Client ID: MW-N2-12-15-10
Sample Location: W 42ND ST., NY, NY
Matrix: Water

Date Collected: 12/15/10 11:45
Date Received: 12/15/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6.1		mg/l	0.10	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Antimony, Total	0.0005		mg/l	0.0005	--	1	12/16/10 16:00	12/18/10 04:42	EPA 3005A	1,6020	BM
Arsenic, Total	0.014		mg/l	0.005	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Barium, Total	0.195		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Beryllium, Total	ND		mg/l	0.0005	--	1	12/16/10 16:00	12/18/10 04:42	EPA 3005A	1,6020	BM
Cadmium, Total	ND		mg/l	0.005	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Calcium, Total	170		mg/l	0.10	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Chromium, Total	0.01		mg/l	0.01	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Cobalt, Total	ND		mg/l	0.020	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Copper, Total	0.019		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Iron, Total	12		mg/l	0.05	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Lead, Total	0.067		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Magnesium, Total	86		mg/l	0.10	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Manganese, Total	0.816		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Mercury, Total	0.0003		mg/l	0.0002	--	1	12/17/10 16:00	12/20/10 11:13	EPA 7470A	1,7470A	KR
Nickel, Total	ND		mg/l	0.025	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Potassium, Total	48		mg/l	2.5	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Selenium, Total	ND		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Silver, Total	ND		mg/l	0.007	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Sodium, Total	240		mg/l	2.0	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Thallium, Total	ND		mg/l	0.0005	--	1	12/16/10 16:00	12/18/10 04:42	EPA 3005A	1,6020	BM
Vanadium, Total	0.017		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG
Zinc, Total	0.062		mg/l	0.050	--	1	12/16/10 16:00	12/22/10 14:53	EPA 3005A	1,6010B	MG

Project Name: RIVER PLACE I/II
Project Number: 170040901
Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-02
Client ID: MW-S2-12-15-10
Sample Location: W 42ND ST., NY, NY
Matrix: Water

Date Collected: 12/15/10 14:45
Date Received: 12/15/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6.9		mg/l	0.10	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Antimony, Total	0.0005		mg/l	0.0005	--	1	12/16/10 16:00	12/18/10 04:48	EPA 3005A	1,6020	BM
Arsenic, Total	0.019		mg/l	0.005	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Barium, Total	0.227		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Beryllium, Total	ND		mg/l	0.0005	--	1	12/16/10 16:00	12/18/10 04:48	EPA 3005A	1,6020	BM
Cadmium, Total	ND		mg/l	0.005	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Calcium, Total	210		mg/l	0.10	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Chromium, Total	0.01		mg/l	0.01	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Cobalt, Total	ND		mg/l	0.020	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Copper, Total	0.027		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Iron, Total	12		mg/l	0.05	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Lead, Total	0.166		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Magnesium, Total	84		mg/l	0.10	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Manganese, Total	0.558		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Mercury, Total	0.0009		mg/l	0.0002	--	1	12/17/10 16:00	12/20/10 11:37	EPA 7470A	1,7470A	KR
Nickel, Total	ND		mg/l	0.025	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Potassium, Total	32		mg/l	2.5	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Selenium, Total	ND		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Silver, Total	ND		mg/l	0.007	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Sodium, Total	67		mg/l	2.0	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Thallium, Total	ND		mg/l	0.0005	--	1	12/16/10 16:00	12/18/10 04:48	EPA 3005A	1,6020	BM
Vanadium, Total	0.017		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG
Zinc, Total	ND		mg/l	0.050	--	1	12/16/10 16:00	12/22/10 14:56	EPA 3005A	1,6010B	MG

Project Name: RIVER PLACE I/II **Lab Number:** L1020042

Project Number: 170040901 **Report Date:** 12/22/10

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG448214-1										
Aluminum, Total	ND		mg/l	0.10	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Arsenic, Total	ND		mg/l	0.005	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Barium, Total	ND		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Cadmium, Total	ND		mg/l	0.005	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Calcium, Total	ND		mg/l	0.10	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Chromium, Total	ND		mg/l	0.01	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Cobalt, Total	ND		mg/l	0.020	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Copper, Total	ND		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Iron, Total	ND		mg/l	0.05	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Lead, Total	ND		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Magnesium, Total	ND		mg/l	0.10	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Manganese, Total	ND		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Nickel, Total	ND		mg/l	0.025	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Potassium, Total	ND		mg/l	2.5	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Selenium, Total	ND		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Silver, Total	ND		mg/l	0.007	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Sodium, Total	ND		mg/l	2.0	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Vanadium, Total	ND		mg/l	0.010	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG
Zinc, Total	ND		mg/l	0.050	--	1	12/16/10 16:00	12/22/10 14:33	1,6010B	MG

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG448218-1										
Antimony, Total	ND		mg/l	0.0005	--	1	12/16/10 16:00	12/18/10 00:20	1,6020	BM
Beryllium, Total	ND		mg/l	0.0005	--	1	12/16/10 16:00	12/18/10 00:20	1,6020	BM
Thallium, Total	ND		mg/l	0.0005	--	1	12/16/10 16:00	12/18/10 00:20	1,6020	BM

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG448406-1										
Mercury, Total	ND		mg/l	0.0002	--	1	12/17/10 16:00	12/20/10 11:01	1,7470A	KR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG448214-2								
Aluminum, Total	100		-		80-120	-		
Arsenic, Total	109		-		80-120	-		
Barium, Total	98		-		80-120	-		
Cadmium, Total	108		-		80-120	-		
Calcium, Total	96		-		80-120	-		
Chromium, Total	100		-		80-120	-		
Cobalt, Total	100		-		80-120	-		
Copper, Total	98		-		80-120	-		
Iron, Total	98		-		80-120	-		
Lead, Total	104		-		80-120	-		
Magnesium, Total	100		-		80-120	-		
Manganese, Total	99		-		80-120	-		
Nickel, Total	98		-		80-120	-		
Potassium, Total	100		-		80-120	-		
Selenium, Total	112		-		80-120	-		
Silver, Total	105		-		80-120	-		
Sodium, Total	110		-		80-120	-		
Vanadium, Total	99		-		80-120	-		
Zinc, Total	102		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG448218-2					
Antimony, Total	93	-	80-120	-	
Beryllium, Total	102	-	80-120	-	
Thallium, Total	93	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG448406-2					
Mercury, Total	112	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG448214-4 QC Sample: L1019993-02 Client ID: MS Sample												
Aluminum, Total	ND	2	2.0	100		-	-		75-125	-		20
Arsenic, Total	ND	0.12	0.129	108		-	-		75-125	-		20
Barium, Total	ND	2	1.95	98		-	-		75-125	-		20
Cadmium, Total	ND	0.051	0.055	107		-	-		75-125	-		20
Calcium, Total	1.2	10	10	88		-	-		75-125	-		20
Chromium, Total	ND	0.2	0.19	95		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.490	98		-	-		75-125	-		20
Copper, Total	ND	0.25	0.244	98		-	-		75-125	-		20
Iron, Total	0.20	1	1.1	90		-	-		75-125	-		20
Lead, Total	ND	0.51	0.525	103		-	-		75-125	-		20
Magnesium, Total	0.30	10	10	97		-	-		75-125	-		20
Manganese, Total	ND	0.5	0.494	99		-	-		75-125	-		20
Nickel, Total	ND	0.5	0.482	96		-	-		75-125	-		20
Potassium, Total	ND	10	10	100		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.131	109		-	-		75-125	-		20
Silver, Total	ND	0.05	0.052	104		-	-		75-125	-		20
Sodium, Total	2.5	10	12	95		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.488	98		-	-		75-125	-		20
Zinc, Total	ND	0.5	0.525	105		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG448218-4 QC Sample: L1020000-01 Client ID: MS Sample										
Antimony, Total	0.0006	0.5	0.4704	94		-	-	80-120	-	20
Beryllium, Total	ND	0.05	0.0517	103		-	-	80-120	-	20
Thallium, Total	ND	0.12	0.1114	93		-	-	80-120	-	20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG448406-4 QC Sample: L1019993-02 Client ID: MS Sample										
Mercury, Total	ND	0.001	0.0013	131	Q	-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG448214-3 QC Sample: L1019993-02 Client ID: DUP Sample						
Arsenic, Total	ND	ND	mg/l	NC		20
Barium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Calcium, Total	1.2	1.1	mg/l	9		20
Chromium, Total	ND	ND	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Iron, Total	0.20	0.19	mg/l	5		20
Lead, Total	ND	ND	mg/l	NC		20
Magnesium, Total	0.30	0.29	mg/l	3		20
Manganese, Total	ND	ND	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	2.5	2.4	mg/l	4		20
Zinc, Total	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG448406-3 QC Sample: L1019993-02 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-01
Client ID: MW-N2-12-15-10
Sample Location: W 42ND ST., NY, NY
Matrix: Water

Date Collected: 12/15/10 11:45
Date Received: 12/15/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	1.68		mg/l	0.050	--	10	12/20/10 11:15	12/21/10 12:38	1,9010B/9012A	JO
Cyanide, Physiologically Available	0.639		mg/l	0.025	--	5	12/21/10 10:30	12/21/10 13:23	64,9014(M)	JO

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

SAMPLE RESULTS

Lab ID: L1020042-02
Client ID: MW-S2-12-15-10
Sample Location: W 42ND ST., NY, NY
Matrix: Water

Date Collected: 12/15/10 14:45
Date Received: 12/15/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	1.41		mg/l	0.050	--	10	12/20/10 11:15	12/21/10 12:39	1,9010B/9012A	JO
Cyanide, Physiologically Available	0.580		mg/l	0.025	--	5	12/21/10 10:30	12/21/10 13:25	64,9014(M)	JO

Project Name: RIVER PLACE I/II

Project Number: 170040901

Lab Number: L1020042

Report Date: 12/22/10

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG448585-3										
Cyanide, Total	ND		mg/l	0.005	--	1	12/20/10 11:15	12/21/10 12:04	1,9010B/9012A	JO
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG448777-3										
Cyanide, Physiologically Available	ND		mg/l	0.005	--	1	12/21/10 10:30	12/21/10 13:08	64,9014(M)	JO

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG448585-1 WG448585-2								
Cyanide, Total	99		99		80-120	0		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG448777-1								
Cyanide, Physiologically Available	108		-		80-120	-		
General Chemistry - Westborough Lab NEGATIVE LCS Associated sample(s): 01-02 Batch: WG448777-2								
Cyanide, Physiologically Available	9		-		0-10	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG448585-4 WG448585-5 QC Sample: L1020042-02 Client ID: MW-S2-12-15-10												
Cyanide, Total	1.41	0.2	1.79	190	Q	1.72	155	Q	80-120	4		30
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG448777-4 QC Sample: L1020042-01 Client ID: MW-N2-12-15-10												
Cyanide, Physiologically Available	0.639	0.2	0.808	85		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG448777-5 QC Sample: L1020042-01 Client ID: MW-N2-12-15-10						
Cyanide, Physiologically Available	0.639	0.649	mg/l	2		20

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1020042-01A	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1020042-01B	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1020042-01C	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1020042-01D	Amber 1000ml unpreserved	A	7	2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1020042-01E	Amber 1000ml unpreserved	A	7	2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1020042-01F	Plastic 500ml HNO3 preserved	A	<2	2	Y	Absent	TL-6020T(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),BE-6020T(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),SB-6020T(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1020042-01G	Plastic 250ml NaOH preserved	A	>12	2	Y	Absent	TCN-9010(14),PACN(14)
L1020042-02A	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1020042-02B	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1020042-02C	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1020042-02D	Amber 1000ml unpreserved	A	7	2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1020042-02E	Amber 1000ml unpreserved	A	7	2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1020042-02F	Plastic 500ml HNO3 preserved	A	<2	2	Y	Absent	TL-6020T(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),BE-6020T(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),SB-6020T(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1020042-02G	Plastic 250ml NaOH preserved	A	>12	2	Y	Absent	TCN-9010(14),PACN(14)

*Values in parentheses indicate holding time in days

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1020042-03A	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: RIVER PLACE I/II **Lab Number:** L1020042

Project Number: 170040901 **Report Date:** 12/22/10

GLOSSARY

Acronyms

EPA · Environmental Protection Agency.

LCS · Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD · Laboratory Control Sample Duplicate: Refer to LCS.

MDL · Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS · Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD · Matrix Spike Sample Duplicate: Refer to MS.

NA · Not Applicable.

NC · Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI · Not Ignitable.

RL · Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD · Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A · Spectra identified as "Aldol Condensation Product".

B · The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.

D · Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E · Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

H · The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I · The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

P · The RPD between the results for the two columns exceeds the method-specified criteria.

Q · The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R · Analytical results are from sample re-analysis.

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Project Name: RIVER PLACE I/II
Project Number: 170040901

Lab Number: L1020042
Report Date: 12/22/10

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

64 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). August 2004.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)
Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)
Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)
Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA TECHNICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 12/15/10

ALPHA Job #: L1020042

Client Information

Client: Langan Engineering

Address: 360 W 31st St, 8th Fl New York, NY 10001

Phone: 212.479.5400

Fax:

Email: SFlanagan/JCarouse@langan.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: RiverPlace I/II

Project Location: W 42nd St, NY, NY

Project #: 170040901

Project Manager: Jason Hayes

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 12/22/10 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 170040901

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC (EPA 8260)	SVOC (EPA 8270)	TAL Metals (EPA 6010/7470)	Cyanide Total (SW 9010)	Cyanide Amen. Lab (EPA 9012)							Sample Specific Comments	TOTAL # BOTTLES
20042 1	MW-N2-12-15-10	12/15/10	1145	GW	SPF	X	X	X	X	X								
2	MW-S2-12-15-10	12/15/10	1415	GW	SPF	X	X	X	X	X								
3	TB-12-15-10	12/15/10	—	—	—	X												

SAMPLE HANDLING

Filtration ☐ Done ☐ Not needed ☐ Lab to do

Preservation ☐ Lab to do (Please specify below)

Container Type	V	A	P	P	P
Preservative	B	A	CE	E	

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	12/15/10 @ 1430	[signature]	12/15/10 1500
[signature]	12/15/10 2235	[signature]	12/15/10 1715
		[signature]	12/15/10 2235

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial No:12221010:19

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA TECHNICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 12/15/10

ALPHA Job #: L1020042

Client Information

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Address: 360 W 31st St, 8th Fl New York, NY 10001

Phone: 212.479.5400

Fax:

Email: SFlanagan/JCarouse@langan.com

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Project Location: W 42nd St, NY, NY

Project #: 170040101

Project Manager: Jason Hayes

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 12/22/10 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 170040101

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC (EPA 8260)	SVOC (EPA 8270)	TAL Metals (EPA 6010/7470)	Cyanide Total (SM4500)	Cyanide Amen. (EPA 9014)							Sample Specific Comments	Total # Bottles
20142 1	MW-N2-12-15-10	12/15/10	1145	GW	SPF	X	X	X	X	X								
2	MW-S2-12-15-10	12/15/10	1415	GW	SPF	X	X	X	X	X								
3	TB-12-15-10	12/15/10	—	—	—	X												
Container Type						V	A	P	P	P								
Preservative						B	A	C	E	E								

SAMPLE HANDLING

Filtration ☐ Done ☐ Not needed ☐ Lab to do

Preservation ☐ Lab to do (Please specify below)

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	12/15/10 2235	[signature]	12/15/10 2235

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FORM NO: 01-01 (rev. 14-OCT-07)

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.

Expires 12:01 AM April 01, 2010
Issued April 01, 2009

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

DR. LEONARD C. PITTS
ALPHA ANALYTICAL
320 FORBES BOULEVARD
MANSFIELD, MA 02048

NY Lab Id No: 11627
EPA Lab Code: MA00030

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 8260B
Acrylonitrile	EPA 8260B
Ethyl methacrylate	EPA 8260B
Methyl methacrylate	EPA 8260B
Amines	
1,4-Phenylenediamine	EPA 8270C
1-Naphthylamine	EPA 8270C
2-Naphthylamine	EPA 8270C
2-Nitroaniline	EPA 8270C
3-Nitroaniline	EPA 8270C
4-Chloroaniline	EPA 8270C
4-Nitroaniline	EPA 8270C
5-Nitro-o-toluidine	EPA 8270C
Aniline	EPA 8270C
Carbazole	EPA 8270C
Diphenylamine	EPA 8270C
Methapyrilene	EPA 8270C
Pronamide	EPA 8270C
Propionitrile	EPA 8260B
Pyridine	EPA 8260B
Benzidines	
3,3'-Dichlorobenzidine	EPA 625
	EPA 8270C
3,3'-Dimethylbenzidine	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
	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

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Chlorinated Hydrocarbon Pesticides

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

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260B
1,2,4,5-Tetrachlorobenzene	EPA 8270C
1,2,4-Trichlorobenzene	EPA 625
	EPA 8260B
	EPA 8270C
1-Chloronaphthalene	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

Chlorinated Hydrocarbons

Hexachloroethane	EPA 8270C
Hexachloropropene	EPA 8270C
Pentachlorobenzene	EPA 8270C

Fuel Oxygenates

Ethanol	EPA 8260B
Methyl tert-butyl ether	EPA 8260B
tert-amyl methyl ether	EPA 8260B
tert-Butyl alcohol	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
	EPA 8270C

Microextractables

1,2-Dibromo-3-chloropropane	EPA 8260B
	EPA 8270C
1,2-Dibromoethane	EPA 8260B

Mineral

Alkalinity	SM 18-21 2320B (97)

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Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270C
1,3-Dinitrobenzene	EPA 8270C
1,4-Naphthoquinone	EPA 8270C
2,4-Dinitrotoluene	EPA 625
	EPA 8270C
2,6-Dinitrotoluene	EPA 625
	EPA 8270C
Isophorone	EPA 625
	EPA 8270C
Nitrobenzene	EPA 625
	EPA 8270C

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270C
N-Nitrosodimethylamine	EPA 625
	EPA 8270C
N-Nitrosodi-n-butylamine	EPA 8260B
	EPA 8270C
N-Nitrosodi-n-propylamine	EPA 625
	EPA 8270C
N-Nitrosodiphenylamine	EPA 625
	EPA 8270C
N-nitrosopiperidine	EPA 8270C
N-Nitrosopyrrolidine	EPA 8270C

Organophosphate Pesticides

Famphur	EPA 8270C

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

2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	EPA 8082
2,2',3,3',4,4',5-Heptachlorobiphenyl	EPA 8082
2,2',3,3',4,4'-Hexachlorobiphenyl	EPA 8082
2,2',3,4,4',5'-Hexachlorobiphenyl	EPA 8082
2,2',3,5'-Tetrachlorobiphenyl	EPA 8082
2,2',5,5'-Tetrachlorobiphenyl	EPA 8082
2,2',5-Trichlorobiphenyl	EPA 8082
2,3',4,4'-Tetrachlorobiphenyl	EPA 8082
PCB-1016	EPA 608
PCB-1221	EPA 608
PCB-1232	EPA 608
PCB-1242	EPA 608
PCB-1248	EPA 608
PCB-1254	EPA 608
PCB-1260	EPA 608

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EPA Lab Code: MA00030

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:

Polynuclear Aromatics

3-Methylcholanthrene	EPA 8270C
7,12-Dimethylbenzyl (a) anthracene	EPA 8270C
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
Fluoranthene	EPA 625
	EPA 8270C
Fluorene	EPA 625
	EPA 8270C
Indeno(1,2,3-cd)pyrene	EPA 625
	EPA 8270C

Polynuclear Aromatics

Naphthalene	EPA 625
	EPA 8260B
	EPA 8270C
Phenanthrene	EPA 625
	EPA 8270C
Pyrene	EPA 625
	EPA 8270C

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270C
2,4,5-Trichlorophenol	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
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

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Priority Pollutant Phenols	
4-Methylphenol	EPA 8270C
4-Nitrophenol	EPA 625
	EPA 8270C
Pentachlorophenol	EPA 625
	EPA 8270C
Phenol	EPA 625
	EPA 8270C
Purgeable Aromatics	
1,2,4-Trimethylbenzene	EPA 8260B
1,2-Dichlorobenzene	EPA 625
	EPA 8260B
	EPA 8270C
1,3,5-Trimethylbenzene	EPA 8260B
1,3-Dichlorobenzene	EPA 625
	EPA 8260B
	EPA 8270C
1,4-Dichlorobenzene	EPA 625
	EPA 8260B
	EPA 8270C
Benzene	EPA 8260B
Chlorobenzene	EPA 8260B
Ethyl benzene	EPA 8260B
Isopropylbenzene	EPA 8260B
n-Butylbenzene	EPA 8260B
n-Propylbenzene	EPA 8260B
p-Isopropyltoluene (P-Cymene)	EPA 8260B
sec-Butylbenzene	EPA 8260B
Toluene	EPA 8260B

Purgeable Aromatics	
Total Xylenes	EPA 8260B
Purgeable Halocarbons	
1,1,1,2-Tetrachloroethane	EPA 8260B
1,1,1-Trichloroethane	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 8260B
1,1,2-Trichloroethane	EPA 8260B
1,1-Dichloroethane	EPA 8260B
1,1-Dichloroethene	EPA 8260B
1,1-Dichloropropene	EPA 8260B
1,2,3-Trichloropropane	EPA 8260B
1,2-Dichloroethane	EPA 8260B
1,2-Dichloropropane	EPA 8260B
1,3-Dichloropropane	EPA 8260B
2,2-Dichloropropane	EPA 8260B
2-Chloroethylvinyl ether	EPA 8260B
3-Chloropropene (Allyl chloride)	EPA 8260B
Bromochloromethane	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
Dibromomethane	EPA 8260B

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All approved analytes are listed below:

Purgeable Halocarbons

Dichlorodifluoromethane	EPA 8260B
Methylene chloride	EPA 8260B
Tetrachloroethene	EPA 8260B
trans-1,2-Dichloroethene	EPA 8260B
trans-1,3-Dichloropropene	EPA 8260B
trans-1,4-Dichloro-2-butene	EPA 8260B
Trichloroethene	EPA 8260B
Trichlorofluoromethane	EPA 8260B
Vinyl chloride	EPA 8260B

Purgeable Organics

1,4-Dioxane	EPA 8260B
2-Butanone (Methylethyl ketone)	EPA 8260B
2-Hexanone	EPA 8260B
4-Methyl-2-Pentanone	EPA 8260B
Acetone	EPA 8260B
Acetonitrile	EPA 8260B
Carbon Disulfide	EPA 8260B
Ethyl Acetate	EPA 8260B
Isobutyl alcohol	EPA 8260B
o-Toluidine	EPA 8260B EPA 8270C
Vinyl acetate	EPA 8260B

Residue

Solids, Total Dissolved	SM 18-21 2540C (97)
Solids, Total Suspended	SM 18-20 2540D (97)

Semi-Volatile Organics

2-Methylnaphthalene	EPA 8270C
4-Amino biphenyl	EPA 8270C
Acetophenone	EPA 8270C
Benzoic Acid	EPA 8270C
Benzyl alcohol	EPA 8270C
Dibenzofuran	EPA 8270C
Ethyl methanesulfonate	EPA 8270C
Isosafrole	EPA 8270C
Methyl methanesulfonate	EPA 8270C
O,O,O-Triethyl phosphorothioate	EPA 8270C
p-Dimethylaminoazobenzene	EPA 8270C
Phenacetin	EPA 8270C
Safrole	EPA 8270C

Volatile Chlorinated Organics

Benzyl chloride	EPA 8260B

Wastewater Metals I

Barium, Total	EPA 200.8 Rev. 5.4 EPA 6020
Cadmium, Total	EPA 200.8 Rev. 5.4 EPA 6020
Chromium, Total	EPA 200.8 Rev. 5.4 EPA 6020
Copper, Total	EPA 200.8 Rev. 5.4 EPA 6020
Lead, Total	EPA 200.8 Rev. 5.4 EPA 6020
Manganese, Total	EPA 200.8 Rev. 5.4

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Wastewater Metals I

Manganese, Total	EPA 6020
Nickel, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Silver, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Strontium, Total	EPA 200.8 Rev. 5.4
	EPA 6020

Wastewater Metals II

Aluminum, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Antimony, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Arsenic, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Beryllium, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Mercury, Total	EPA 1631E
	EPA 245.1 Rev. 3.0
Selenium, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Vanadium, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Zinc, Total	EPA 200.8 Rev. 5.4
	EPA 6020

Wastewater Metals III

Cobalt, Total	EPA 200.8 Rev. 5.4
	EPA 6020

Wastewater Metals III

Molybdenum, Total	EPA 200.8 Rev. 5.4
	EPA 6020
Thallium, Total	EPA 200.8 Rev. 5.4
	EPA 6020

Wastewater Miscellaneous

Cyanide, Total	EPA 9014
Hydrogen Ion (pH)	EPA 9040B
Specific Conductance	EPA 120.1 Rev. 1982
	SM 18-21 2510B (97)
Sulfide (as S)	EPA 376.2
Turbidity	EPA 180.1 Rev. 2.0

Sample Preparation Methods

EPA 3510C
EPA 3511
EPA 5030B
EPA 9010B

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NELAP Recognized

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WADSWORTH CENTER
RICHARD F. DAINES, M.D.

Expires 12:01 AM April 01, 2010
Issued April 01, 2009

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

DR. LEONARD C. PITTS
ALPHA ANALYTICAL
320 FORBES BOULEVARD
MANSFIELD, MA 02048

NY Lab Id No: 11627
EPA Lab Code: MA00030

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved subcategories and/or analytes are listed below:

Polychlorinated Biphenyls

2,3',4,4',5-Pentachlorobiphenyl	EPA 8082

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NY Lab Id No: 11627
EPA Lab Code: MA00030

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All approved analytes are listed below:

Acrylates

Acrolein (Propenal)	EPA 8260B
Acrylonitrile	EPA 8260B
Ethyl methacrylate	EPA 8260B
Methyl acrylonitrile	EPA 8260B
Methyl methacrylate	EPA 8260B

Amines

1,2-Diphenylhydrazine	EPA 8270C
1,4-Phenylenediamine	EPA 8270C
1-Naphthylamine	EPA 8270C
2-Naphthylamine	EPA 8270C
2-Nitroaniline	EPA 8270C
3-Nitroaniline	EPA 8270C
4,4'-Oxydianiline	EPA 8270C
4-Chloro-1,2-phenylenediamine	EPA 8270C
4-Chloro-1,3-phenylenediamine	EPA 8270C
4-Chloroaniline	EPA 8270C
4-Nitroaniline	EPA 8270C
5-Chloro-2-methylaniline	EPA 8270C
5-Nitro-o-toluidine	EPA 8270C
Aniline	EPA 8270C
Carbazole	EPA 8270C
Diphenylamine	EPA 8270C
Methapyrilene	EPA 8270C
o-Anisidine	EPA 8270C
Pronamide	EPA 8270C

Benzidines

3,3'-Dichlorobenzidine	EPA 8270C

Benzidines

3,3'-Dimethylbenzidine	EPA 8270C
Benzidine	EPA 8270C

Characteristic Testing

Corrosivity	EPA 9040B
	EPA 9045C

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081A
4,4'-DDE	EPA 8081A
4,4'-DDT	EPA 8081A
Aldrin	EPA 8081A
alpha-BHC	EPA 8081A
alpha-Chlordane	EPA 8081A
beta-BHC	EPA 8081A
Chlordane Total	EPA 8081A
Chlorobenzilate	EPA 8081A
delta-BHC	EPA 8081A
Diallate	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

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All approved analytes are listed below:

Chlorinated Hydrocarbon Pesticides

Kepone	EPA 8081A
Lindane	EPA 8081A
Methoxychlor	EPA 8081A
Pentachloronitrobenzene	EPA 8081A
	EPA 8270C
Toxaphene	EPA 8081A
Trifluralin	EPA 8081A

Chlorinated Hydrocarbons

1,2,4,5-Tetrachlorobenzene	EPA 8270C
1,2,4-Trichlorobenzene	EPA 8260B
	EPA 8270C
1-Chloronaphthalene	EPA 8270C
2-Chloronaphthalene	EPA 8270C
Hexachlorobenzene	EPA 8270C
Hexachlorobutadiene	EPA 8260B
	EPA 8270C
Hexachlorocyclopentadiene	EPA 8270C
Hexachloroethane	EPA 8270C
Hexachlorophene	EPA 8270C
Hexachloropropene	EPA 8270C
Pentachlorobenzene	EPA 8270C

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 6020
Cadmium, Total	EPA 6020
Chromium, Total	EPA 6020
Copper, Total	EPA 6020
Lead, Total	EPA 6020
Manganese, Total	EPA 6020
Nickel, Total	EPA 6020
Silver, Total	EPA 6020

Metals II

Aluminum, Total	EPA 6020
Antimony, Total	EPA 6020
Arsenic, Total	EPA 6020
Beryllium, Total	EPA 6020
Chromium VI	EPA 7196A
Mercury, Total	EPA 7471A
	EPA 7474
Selenium, Total	EPA 6020
Vanadium, Total	EPA 6020
Zinc, Total	EPA 6020

Metals III

Cobalt, Total	EPA 6020
Molybdenum, Total	EPA 6020
Thallium, Total	EPA 6020

Miscellaneous

Cyanide, Total	EPA 9014
Hydrogen Ion (pH)	EPA 9040B

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Miscellaneous

Hydrogen Ion (pH)	EPA 9045C

Nitroaromatics and Isophorone

1,2-Dinitrobenzene	EPA 8270C
1,4-Dinitrobenzene	EPA 8270C
1,4-Naphthoquinone	EPA 8270C
2,4-Dinitrotoluene	EPA 8270C
2,6-Dinitrotoluene	EPA 8270C
Hydroquinone	EPA 8270C
Isophorone	EPA 8270C
Nitrobenzene	EPA 8270C
Nitroquinoline-1-oxide	EPA 8270C
Pyridine	EPA 8260B
	EPA 8270C

Nitrosoamines

N-Nitrosodimethylamine	EPA 8270C
N-Nitrosodi-n-butylamine	EPA 8260B
N-Nitrosodi-n-propylamine	EPA 8270C
N-Nitrosodiphenylamine	EPA 8270C
N-nitrosomethylethylamine	EPA 8270C
N-nitrosomorpholine	EPA 8270C
N-nitrosopiperidine	EPA 8270C
N-Nitrosopyrrolidine	EPA 8270C

Organophosphate Pesticides

Famphur	EPA 8270C
Mevinphos	EPA 8270C
TEPP	EPA 8270C

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

2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	EPA 8082
2,2',3,3',4,4',5-Heptachlorobiphenyl	EPA 8082
2,2',3,4,4',5,5'-Heptachlorobiphenyl	EPA 8082
2,2',3,4,4',5',6-Heptachlorobiphenyl	EPA 8082
2,2',3,4,4',5'-Hexachlorobiphenyl	EPA 8082
2,2',3,4',5,5',6-Heptachlorobiphenyl	EPA 8082
2,2',3,4,5,5'-Hexachlorobiphenyl	EPA 8082
2,2',3,4,5'-Pentachlorobiphenyl	EPA 8082
2,2',3,5,5',6-Hexachlorobiphenyl	EPA 8082
2,2',3,5'-Tetrachlorobiphenyl	EPA 8082
2,2',4,4',5,5'-Hexachlorobiphenyl	EPA 8082
2,2',4,5,5'-Pentachlorobiphenyl	EPA 8082
2,2',5,5'-Tetrachlorobiphenyl	EPA 8082
2,2',5-Trichlorobiphenyl	EPA 8082
2,3,3',4,6-Pentachlorobiphenyl	EPA 8082
2,3',4,4'-Tetrachlorobiphenyl	EPA 8082
2,3-Dichlorobiphenyl	EPA 8082
2,4',5-Trichlorobiphenyl	EPA 8082
2-Chlorobiphenyl	EPA 8082
PCB-1016	EPA 8082
PCB-1221	EPA 8082

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All approved analytes are listed below:

Polychlorinated Biphenyls

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

Polynuclear Aromatic Hydrocarbons

3-Methylcholanthrene	EPA 8270C
7,12-Dimethylbenzyl (a) anthracene	EPA 8270C
Acenaphthene	EPA 8270C
Acenaphthylene	EPA 8270C
Anthracene	EPA 8270C
Benzo(a)anthracene	EPA 8270C
Benzo(a)pyrene	EPA 8270C
Benzo(b)fluoranthene	EPA 8270C
Benzo(ghi)perylene	EPA 8270C
Benzo(k)fluoranthene	EPA 8270C
Chrysene	EPA 8270C
Dibenzo(a,e)pyrene	EPA 8270C
Dibenzo(a,h)anthracene	EPA 8270C
Dibenzo(a,j)acridine	EPA 8270C
Fluoranthene	EPA 8270C
Fluorene	EPA 8270C
Indeno(1,2,3-cd)pyrene	EPA 8270C
Naphthalene	EPA 8260B
	EPA 8270C
Phenanthrene	EPA 8270C
Pyrene	EPA 8270C

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270C
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
2,6-Dichlorophenol	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
Pentachlorophenol	EPA 8270C
Phenol	EPA 8270C
Thiophenol	EPA 8270C

Purgeable Aromatics

1,2,4-Trimethylbenzene	EPA 8260B
1,2-Dichlorobenzene	EPA 8260B
	EPA 8270C
1,3,5-Trimethylbenzene	EPA 8260B
1,3-Dichlorobenzene	EPA 8260B
	EPA 8270C
1,4-Dichlorobenzene	EPA 8260B
	EPA 8270C
2-Chlorotoluene	EPA 8260B

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All approved analytes are listed below:

Purgeable Aromatics

4-Chlorotoluene	EPA 8260B
Benzene	EPA 8260B
Bromobenzene	EPA 8260B
Chlorobenzene	EPA 8260B
Ethyl benzene	EPA 8260B
Isopropylbenzene	EPA 8260B
n-Butylbenzene	EPA 8260B
n-Propylbenzene	EPA 8260B
p-Isopropyltoluene (P-Cymene)	EPA 8260B
sec-Butylbenzene	EPA 8260B
Styrene	EPA 8260B
tert-Butylbenzene	EPA 8260B
Toluene	EPA 8260B
Total Xylenes	EPA 8260B

Purgeable Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260B
1,1,1-Trichloroethane	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 8260B
1,1,2-Trichloroethane	EPA 8260B
1,1-Dichloroethane	EPA 8260B
1,1-Dichloroethene	EPA 8260B
1,1-Dichloropropene	EPA 8260B
1,2,3-Trichloropropane	EPA 8260B
1,2-Dibromo-3-chloropropane	EPA 8081A
1,2-Dibromoethane	EPA 8260B
1,2-Dichloroethane	EPA 8260B
1,2-Dichloropropane	EPA 8260B
1,3-Dichloro-2-propanol	EPA 8260B

Purgeable Halocarbons

1,3-Dichloropropane	EPA 8260B
2,2-Dichloropropane	EPA 8260B
2-Chloroethylvinyl ether	EPA 8260B
3-Chloropropene (Allyl chloride)	EPA 8260B
Bromoacetone	EPA 8260B
Bromochloromethane	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
cis-1,4-Dichloro-2-butene	EPA 8260B
Dibromochloromethane	EPA 8260B
Dibromomethane	EPA 8260B
Dichlorodifluoromethane	EPA 8260B
Methylene chloride	EPA 8260B
Tetrachloroethene	EPA 8260B
trans-1,2-Dichloroethene	EPA 8260B
trans-1,3-Dichloropropene	EPA 8260B
trans-1,4-Dichloro-2-butene	EPA 8260B
Trichloroethene	EPA 8260B
Trichlorofluoromethane	EPA 8260B
Vinyl chloride	EPA 8260B

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All approved analytes are listed below:

Purgeable Organics

1,4-Dioxane	EPA 8260B
2-Butanone (Methylethyl ketone)	EPA 8260B
2-Hexanone	EPA 8260B
4-Methyl-2-Pentanone	EPA 8260B
Acetone	EPA 8260B
Acetonitrile	EPA 8260B
Carbon Disulfide	EPA 8260B
Ethyl Acetate	EPA 8260B
Isobutyl alcohol	EPA 8260B
Methyl tert-butyl ether	EPA 8260B
o-Toluidine	EPA 8260B
	EPA 8270C
Propionitrile	EPA 8260B
tert-Butyl alcohol	EPA 8260B
Vinyl acetate	EPA 8260B

Semi-Volatile Organics

2-Methylnaphthalene	EPA 8270C
4-Amino biphenyl	EPA 8270C
Acetophenone	EPA 8270C
Benzoic Acid	EPA 8270C
Benzyl alcohol	EPA 8270C
Dibenzofuran	EPA 8270C
Diethyl sulfate	EPA 8270C
Dihydrosafrole	EPA 8270C
Ethyl methanesulfonate	EPA 8270C
Isosafrole	EPA 8270C
Methyl methanesulfonate	EPA 8270C
O,O,O-Triethyl phosphorothioate	EPA 8270C

Semi-Volatile Organics

Resorcinol	EPA 8270C
Safrole	EPA 8270C
Toluene Diisocyanate	EPA 8270C

Volatile Chlorinated Organics

Benzyl chloride	EPA 8260B

Sample Preparation Methods

EPA 1311
EPA 3050B
EPA 3580
EPA 5030B
EPA 5035
EPA 9010B

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Acrylates	
Acetonitrile	EPA TO-15
Acrylonitrile	EPA TO-15
Chlorinated Hydrocarbons	
1,2,4-Trichlorobenzene	EPA TO-15
Hexachlorobutadiene	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
Benzene	EPA TO-15
Chlorobenzene	EPA TO-15
Ethyl benzene	EPA TO-15
Isopropylbenzene	EPA TO-15
Styrene	EPA TO-15
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-Trichloroethane	EPA TO-15
1,1,2-Trifluoro-1,2,2-Trichloroethane	EPA TO-15
1,1-Dichloroethane	EPA TO-15
Purgeable Halocarbons	
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
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

Serial No.: 39521

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NELAP Recognized

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.

Expires 12:01 AM April 01, 2010
Issued April 01, 2009

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

DR. LEONARD C. PITTS
ALPHA ANALYTICAL
320 FORBES BOULEVARD
MANSFIELD, MA. 02048

NY Lab Id No: 11627
EPA Lab Code: MA00030

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

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
Hexane	EPA TO-15
Methanol	EPA TO-15
Methyl tert-butyl ether	EPA TO-15
Vinyl acetate	EPA TO-15

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MR. CHRISTOPHER WAKEFIELD
ALPHA ANALYTICAL
8 WALKUP DR
WESTBOROUGH, MA 01581-1019

NY Lab Id No: 11148
EPA Lab Code: MA00086

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

Bromochloroacetic acid	SM 19-21 6251B (94)
Dibromoacetic acid	SM 19-21 6251B (94)
Dichloroacetic acid	SM 19-21 6251B (94)
Monobromoacetic acid	SM 19-21 6251B (94)
Monochloroacetic acid	SM 19-21 6251B (94)
Trichloroacetic acid	SM 19-21 6251B (94)

Drinking Water Bacteriology

Coliform, Total / E. coli (Qualitative)	SM 18-21 9223B (97) (Colilert)
	SM18-21 9222B(97)/40CFR141.21(f)(6)(i)
Standard Plate Count	SM 18-21 9215B

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
Mercury, Total	EPA 245.2 Rev. 1974
Selenium, Total	EPA 200.8 Rev. 5.4
Silver, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Drinking Water Metals I

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
Antimony, Total	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Molybdenum, Total	EPA 200.7 Rev. 4.4
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4
Vanadium, Total	EPA 200.7 Rev. 4.4
	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
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4

Drinking Water Miscellaneous

Organic Carbon, Total	SM 18-21 5310C (00)
Perchlorate	EPA 314.0
	EPA 331.0

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

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8 WALKUP DR
WESTBOROUGH, MA 01581-1019

NY Lab Id No: 11148
EPA Lab Code: MA00086

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All approved analytes are listed below:

Drinking Water Non-Metals

Color	SM 18-21 2120B (01)
Cyanide, Total	SM 18-21 4500-CN E (99)
Fluoride, Total	EPA 300.0 Rev. 2.1
	SM 18-21 4500-F C (97)
Hydrogen Ion (pH)	SM 18-21 4500-H B (00)
Nitrate (as N)	SM 18-21 4500-NO3 F (00)
Nitrite (as N)	SM 18-21 4500-NO3 F (00)
Solids, Total Dissolved	SM 18-21 2540C (97)
Specific Conductance	EPA 120.1 Rev. 1982
	SM 18-21 2510B (97)
Sulfate (as SO4)	EPA 300.0 Rev. 2.1

Drinking Water Trihalomethanes

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

Microextractibles

1,2-Dibromo-3-chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1

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

Volatile Aromatics

1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
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

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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

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Acrylates	
Acrolein (Propenal)	EPA 624
	EPA 8260B
Acrylonitrile	EPA 624
	EPA 8260B
Amines	
2-Nitroaniline	EPA 8270C
3-Nitroaniline	EPA 8270C
4-Chloroaniline	EPA 8270C
4-Nitroaniline	EPA 8270C
Carbazole	EPA 8270C
Pyridine	EPA 625
	EPA 8270C
Bacteriology	
Coliform, Fecal	SM 18-20 9221E (99)
	SM 18-20 9222D (97)
Coliform, Total	SM 18-20 9221B (99)
	SM 18-20 9222B (97)
Standard Plate Count	SM 18-21 9215B
Benzidines	
3,3'-Dichlorobenzidine	EPA 625
	EPA 8270C
Benzidine	EPA 625
	EPA 8270C
Chlorinated Hydrocarbon Pesticides	
4,4'-DDD	EPA 608
	EPA 8081A
Chlorinated Hydrocarbon Pesticides	
4,4'-DDE	EPA 608
	EPA 8081A
4,4'-DDT	EPA 608
	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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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

1,2,3-Trichlorobenzene	EPA 8260B
1,2,4,5-Tetrachlorobenzene	EPA 8270C
1,2,4-Trichlorobenzene	EPA 625
	EPA 8260B
	EPA 8270C
2-Chloronaphthalene	EPA 625
	EPA 8270C
Hexachlorobenzene	EPA 625
	EPA 8270C
Hexachlorobutadiene	EPA 625
	EPA 8260B
	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

Demand

Carbonaceous BOD	SM 18-20 5210B (01)
Chemical Oxygen Demand	EPA 410.4 Rev. 2.0
	SM 18-20 5220D (97)

Fuel Oxygenates

Methyl tert-butyl ether	EPA 8260B
tert-Butyl alcohol	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
	EPA 8270C

Microextractables

1,2-Dibromo-3-chloropropane	EPA 8260B
1,2-Dibromoethane	EPA 8260B

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NY Lab Id No: 11148
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Mineral

Acidity	SM 18-20 2310B.4a (97)
Alkalinity	SM 18-21 2320B (97)
Calcium Hardness	EPA 200.7 Rev. 4.4
Chloride	EPA 300.0 Rev. 2.1
	LACHAT 10-117-07-1 A or B
	SM 18-20 4500-Cl- E (97)
Fluoride, Total	EPA 300.0 Rev. 2.1
	SM 18-21 4500-F C (97)
Hardness, Total	EPA 200.7 Rev. 4.4
Sulfate (as SO4)	EPA 300.0 Rev. 2.1
	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
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

Nitroaromatics and Isophorone

Isophorone	EPA 8270C
Methyl-2,4,6-trinitrophenylnitramine	EPA 8330
Nitrobenzene	EPA 625
	EPA 8270C
	EPA 8330
Octahydro-tetranitro-tetrazocine	EPA 8330

Nitrosoamines

N-Nitrosodimethylamine	EPA 625
	EPA 8270C
N-Nitrosodi-n-propylamine	EPA 625
	EPA 8270C
N-Nitrosodiphenylamine	EPA 625
	EPA 8270C

Nutrient

Ammonia (as N)	EPA 350.1 Rev. 2.0
	LACHAT 10-107-06-1-B
	SM 18 4500-NH3 H
Kjeldahl Nitrogen, Total	EPA 351.1 Rev. 1978
	LACHAT 10-107-06-2
Nitrate (as N)	EPA 300.0 Rev. 2.1
	EPA 353.2 Rev. 2.0
	LACHAT 10-107-04-1-C
	SM 18-21 4500-NO3 F (00)
Nitrite (as N)	SM 18-21 4500-NO2 B (00)
Orthophosphate (as P)	SM 18-21 4500-P E
Phosphorus, Total	SM 18-21 4500-P E

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All approved analytes are listed below:

Organophosphate Pesticides

Atrazine	EPA 8270C

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
PCB-1254	EPA 608
	EPA 8082

Polychlorinated Biphenyls

PCB-1260	EPA 608
	EPA 8082
PCB-1262	EPA 8082
PCB-1268	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
Fluoranthene	EPA 625
	EPA 8270C
Fluorene	EPA 625

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Polynuclear Aromatics

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

Priority Pollutant Phenols

4-Chloro-3-methylphenol	EPA 8270C
4-Methylphenol	EPA 8270C
4-Nitrophenol	EPA 625
	EPA 8270C
Cresols, Total	EPA 8270C
Pentachlorophenol	EPA 625
	EPA 8270C
Phenol	EPA 625
	EPA 8270C

Purgeable Aromatics

1,2-Dichlorobenzene	EPA 624
	EPA 625
	EPA 8021B
	EPA 8260B
	EPA 8270C
1,3-Dichlorobenzene	EPA 624
	EPA 625
	EPA 8021B
	EPA 8260B
	EPA 8270C
1,4-Dichlorobenzene	EPA 624
	EPA 625
	EPA 8021B
	EPA 8260B
	EPA 8270C
Benzene	EPA 624
	EPA 8021B
	EPA 8260B

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All approved analytes are listed below:

Purgeable Aromatics

Chlorobenzene	EPA 624
	EPA 8260B
Ethyl benzene	EPA 624
	EPA 8021B
	EPA 8260B
Isopropylbenzene	EPA 8260B
Styrene	EPA 8260B
Toluene	EPA 624
	EPA 8021B
	EPA 8260B
Total Xylenes	EPA 624
	EPA 8021B
	EPA 8260B

Purgeable Halocarbons

1,1,1-Trichloroethane	EPA 624
	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 624
	EPA 8260B
1,1,2-Trichloroethane	EPA 624
	EPA 8260B
1,1,2-Trifluoro-1,2,2-Trichloroethane	EPA 8260B
1,1-Dichloroethane	EPA 624
	EPA 8260B
1,1-Dichloroethene	EPA 624
	EPA 8260B
1,2-Dichloroethane	EPA 624
	EPA 8260B
1,2-Dichloropropane	EPA 624

Purgeable Halocarbons

1,2-Dichloropropane	EPA 8260B
2-Chloroethylvinyl ether	EPA 624
	EPA 8260B
Bromochloromethane	EPA 8260B
Bromodichloromethane	EPA 624
	EPA 8260B
Bromoform	EPA 624
	EPA 8260B
Bromomethane	EPA 624
	EPA 8260B
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 8260B
cis-1,3-Dichloropropene	EPA 624
	EPA 8260B
Dibromochloromethane	EPA 624
	EPA 8260B
Dichlorodifluoromethane	EPA 624
	EPA 8260B
Methylene chloride	EPA 624
	EPA 8260B
Tetrachloroethene	EPA 624

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NELAP Recognized

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.

Expires 12:01 AM April 01, 2010
Issued April 01, 2009

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. CHRISTOPHER WAKEFIELD
ALPHA ANALYTICAL
8 WALKUP DR
WESTBOROUGH, MA 01581-1019

NY Lab Id No: 11148
EPA Lab Code: MA00086

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:

Purgeable Halocarbons

Tetrachloroethene	EPA 8260B
trans-1,2-Dichloroethene	EPA 624
	EPA 8260B
trans-1,3-Dichloropropene	EPA 624
	EPA 8260B
Trichloroethene	EPA 624
	EPA 8260B
Trichlorofluoromethane	EPA 624
	EPA 8260B
Vinyl chloride	EPA 624
	EPA 8260B

Purgeable Organics

1,4-Dioxane	EPA 8260B
2-Butanone (Methylethyl ketone)	EPA 8260B
2-Hexanone	EPA 8260B
4-Methyl-2-Pentanone	EPA 8260B
Acetone	EPA 8260B
Carbon Disulfide	EPA 8260B
Cyclohexane	EPA 8260B
Methyl acetate	EPA 8260B
Vinyl acetate	EPA 8260B

Residue

Solids, Total Dissolved	SM 18-21 2540C (97)
Solids, Total Suspended	SM 18-20 2540D (97)

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270C

Semi-Volatile Organics

2-Methylnaphthalene	EPA 8270C
Acetophenone	EPA 8270C
Benzaldehyde	EPA 8270C
Benzoic Acid	EPA 8270C
Benzyl alcohol	EPA 8270C
Caprolactam	EPA 8270C
Dibenzofuran	EPA 8270C
Methyl cyclohexane	EPA 8260B

Wastewater Metals I

Barium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
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
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Iron, Total	EPA 200.7 Rev. 4.4

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NY Lab Id No: 11148
EPA Lab Code: MA00086

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Wastewater Metals I

Iron, Total	EPA 6010B
Lead, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Magnesium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Potassium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Silver, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Sodium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B

Wastewater Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020

Wastewater Metals II

Antimony, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Arsenic, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Chromium VI	EPA 7196A
	SM 18-19 3500-Cr D
Mercury, Total	EPA 245.1 Rev. 3.0
	EPA 245.2 Rev. 1974
	EPA 7470A
Selenium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Vanadium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B

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Wastewater Metals II

Zinc, Total	EPA 6020

Wastewater Metals III

Cobalt, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Molybdenum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Thallium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
	EPA 6020
Tin, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Titanium, Total	EPA 200.7 Rev. 4.4

Wastewater Miscellaneous

Boron, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Bromide	EPA 300.0 Rev. 2.1
Color	SM 18-21 2120B (01)
Cyanide, Total	LACHAT 10-204-00-1-A
	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

Wastewater Miscellaneous

Organic Carbon, Total	SM 18-21 5310C (00)
Phenols	EPA 420.1 Rev. 1978
	SM 14 510C
Silica, Dissolved	EPA 200.7 Rev. 4.4
	EPA 6010B
Specific Conductance	EPA 120.1 Rev. 1982
	SM 18-21 2510B (97)
Sulfide (as S)	EPA 376.2
	SM 18-20 4500-S D (00)
Surfactant (MBAS)	SM 18-21 5540C (00)

Sample Preparation Methods

EPA 3005A
EPA 3015
EPA 3510C
EPA 5030B
EPA 9010B
EPA 9030B
SM 18-20 4500-NH3 B (97)

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

Nutrient

Nitrite (as N)	LACHAT 10-107-04-1-C

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All approved analytes are listed below:

Acrylates	
Acrolein (Propenal)	EPA 8260B
Acrylonitrile	EPA 8260B
Amines	
1,2-Diphenylhydrazine	EPA 8270C
2-Nitroaniline	EPA 8270C
3-Nitroaniline	EPA 8270C
4-Chloroaniline	EPA 8270C
4-Nitroaniline	EPA 8270C
Carbazole	EPA 8270C
Benzidines	
3,3'-Dichlorobenzidine	EPA 8270C
Characteristic Testing	
Corrosivity	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
alpha-BHC	EPA 8081A
alpha-Chlordane	EPA 8081A
Atrazine	EPA 8270C
beta-BHC	EPA 8081A
Chlorinated Hydrocarbon Pesticides	
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	
1,2,4,5-Tetrachlorobenzene	EPA 8270C
2-Chloronaphthalene	EPA 8270C
Hexachlorobenzene	EPA 8270C
Hexachlorobutadiene	EPA 8270C
Hexachlorocyclopentadiene	EPA 8270C
Hexachloroethane	EPA 8270C
Chlorophenoxy Acid Pesticides	
2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A

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All approved analytes are listed below:

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
Cadmium, Total	EPA 6010B
Calcium, Total	EPA 6010B
Chromium, Total	EPA 6010B
Copper, Total	EPA 6010B
Iron, Total	EPA 6010B
Lead, Total	EPA 6010B
Magnesium, Total	EPA 6010B
Manganese, Total	EPA 6010B
Nickel, Total	EPA 6010B
Potassium, Total	EPA 6010B
Silver, Total	EPA 6010B
Sodium, Total	EPA 6010B
Metals II	
Aluminum, Total	EPA 6010B
Antimony, Total	EPA 6010B
Arsenic, Total	EPA 6010B
Beryllium, Total	EPA 6010B
Chromium VI	EPA 7196A
Mercury, Total	EPA 7471A
Selenium, Total	EPA 6010B
Metals II	
Vanadium, Total	EPA 6010B
Zinc, Total	EPA 6010B
Metals III	
Cobalt, Total	EPA 6010B
Molybdenum, Total	EPA 6010B
Thallium, Total	EPA 6010B
Tin, Total	EPA 6010B
Miscellaneous	
Boron, Total	EPA 6010B
Cyanide, Total	EPA 9012A
	EPA 9014
Hydrogen Ion (pH)	EPA 9040B
	EPA 9045C
Lead in Paint	EPA 6010B
Phenols	EPA 9066
Specific Conductance	EPA 9050
Nitroaromatics and Isophorone	
1,3,5-Trinitrobenzene	EPA 8330
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

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Nitroaromatics and Isophorone

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
Octahydro-tetranitro-tetrazocine	EPA 8330

Nitrosoamines

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

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

Polychlorinated Biphenyls

PCB-1254	EPA 8082
PCB-1260	EPA 8082
PCB-1262	EPA 8082
PCB-1268	EPA 8082

Polynuclear Aromatic Hydrocarbons

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

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Priority Pollutant Phenols

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

Purgeable Aromatics

1,2-Dichlorobenzene	EPA 8021B
	EPA 8260B
1,3-Dichlorobenzene	EPA 8021B
	EPA 8260B
1,4-Dichlorobenzene	EPA 8021B
	EPA 8260B
Benzene	EPA 8021B
	EPA 8260B
Chlorobenzene	EPA 8021B
	EPA 8260B
Ethyl benzene	EPA 8021B
	EPA 8260B
Isopropylbenzene	EPA 8260B
Styrene	EPA 8260B
Toluene	EPA 8021B
	EPA 8260B
Total Xylenes	EPA 8021B
	EPA 8260B

Purgeable Halocarbons

1,1,1-Trichloroethane	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 8260B
1,1,2-Trichloroethane	EPA 8260B
1,1,2-Trifluoro-1,2,2-Trichloroethane	EPA 8260B
1,1-Dichloroethane	EPA 8260B
1,1-Dichloroethene	EPA 8260B
1,2-Dibromo-3-chloropropane	EPA 8260B
1,2-Dibromoethane	EPA 8260B
1,2-Dichloroethane	EPA 8260B
1,2-Dichloropropane	EPA 8260B
Bromochloromethane	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
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

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All approved analytes are listed below:

Purgeable Halocarbons

Vinyl chloride	EPA 8260B

Purgeable Organics

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

Semi-Volatile Organics

1,1'-Biphenyl	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
Methyl cyclohexane	EPA 8260B

Sample Preparation Methods

EPA 1311
EPA 3005A

Sample Preparation Methods

EPA 3050B
EPA 3051
EPA 3540C
EPA 3545
EPA 3580
EPA 5030B
EPA 5035
EPA 9010B
EPA 9030B

Serial No.: 39218

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NELAP Recognized

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.

Expires 12:01 AM April 01, 2010
Issued April 01, 2009

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. CHRISTOPHER WAKEFIELD
ALPHA ANALYTICAL
8 WALKUP DR
WESTBOROUGH, MA 01581-1019

NY Lab Id No: 11148
EPA Lab Code: MA00086

Is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards for the category ENVIRONMENTAL ANALYSES AIR AND EMISSIONS All approved analytes are listed below:

Polynuclear Aromatics

Benzo(a)pyrene	EPA TO-13
Naphthalene	EPA TO-13

Serial No.: 39219

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