LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

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Joel B. Landes, P.E.
Alan R. Poeppel, P.E.

August 4, 2010

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

RE: Site Management Plan Annual Review – July 2010
West 42nd Street – River Place I & II
West 41st – West 42nd Streets
New York, New York 110036
NYSDEC BCP Site No. C231012 & C231024
Langan Project No.: 170040901

Dear Mr. MacNeal:

This letter documents ongoing compliance with the July 2006 Site Management Plan (SMP) that was prepared in accordance with the New York State Brownfields Cleanup Program (BCP) for the River Place I & II properties (the "Site"). The Site is located between West 41st Street and West 42nd Street and 11th and 12th Avenues on the west side of Manhattan, New York. Construction activities have been completed at both of the two portions of the Site (River Place I & II). The last review letter was submitted to you on July 30, 2009.

The following is an update on the status of the requirements of the SMP for the Site including: 1) institutional control/engineering controls (IC/EC); 2) groundwater monitoring; and 3) indoor air monitoring.

Institutional Control/Engineering Controls (IC/EC) Inspection

Institutional and engineering controls at the Site include a cover system, a vapor/water barrier and an environmental easement as described below. The signed and completed New York State Department of Environmental Conservation IC/EC Certification Form is provided as Attachment A.

Cover System – The Site cover system includes the building foundation slabs, asphalt parking lots, concrete walkways, and top soil used in landscaped areas. The construction of the cover system is complete. Both building slabs and the park portion between the buildings were inspected by Langan on July 1, 2010 and were observed to be in tact. Photographs of Site cover are provided as Attachment B.

Inspection of Vapor/Water Barrier – The vapor/water barrier at River Place II was completed in October 2007 and a report documenting the installation was provided to NYSDEC. We inspected the basement and sub cellar areas of River Place II on July 1, 2010 during the inspection of the cover system. There were no new penetrations observed through the slab and vapor barrier.

Environmental Easement – Groundwater is not used for any purpose. Land use remains as multi-story residential.

Quarterly Groundwater Monitoring

Quarterly groundwater monitoring is required for the first two years following completion of the remedial construction, as specified in the SMP. On February 28 and March 7, 2009, two groundwater monitoring wells were installed in the future park area between RP I and RP II. On March 1 and June 10, 2010, Langan performed the first and second 2010 quarterly monitoring events, respectively. The 2010 quarterly groundwater monitoring reports are included as Attachment C and D. Subsequent quarterly reports generated between now and July 2011 will be included in the Site Management Periodic Review scheduled to be completed in July 2011.

Annual Indoor Air Monitoring

The SMP requires annual indoor air sampling in River Place I for three years. In compliance with the SMP, GCI Environmental Advisory, Inc. conducted indoor air monitoring in 2010. The Ambient/Indoor Air Monitoring Assessment Survey report is provided as Attachment E. The next round of indoor air sampling is scheduled for 2011. The report concludes that the limited indoor air chemicals detected are attributed to general cleaning products and building occupation and not the result of sub-slab vapor intrusion.

Closing

The SMP is being implemented in accordance with the schedules discussed above. Should you have any questions, please contact me at 212-479-5404.

Kindest Regards,
Langan Engineering & Environmental Services, P.C.

Joel B. Landes, P.E.
Senior Associate

Enclosures:

Attachment A	NYSDEC Institutional and Engineering Controls Certification Form
Attachment B	Site Cover Photographs
Attachment C	Quarterly Groundwater Monitoring Report-First Quarter 2010
Attachment D	Quarterly Groundwater Monitoring Report-Second Quarter 2010
Attachment E	GCI Indoor Air Monitoring Report

Cc: William R. Dacunto – River Place 2 LLC
Richard Rienzo - Con Edison

Attachment A
NYSDEC Institutional and Engineering Controls Certification Form

Enclosure 1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C231012

Site Name CE - W 42nd St. - River Place II

Site Address: West 41st - West 42nd Sts. **Zip Code:** 10036

City/Town: New York

County: New York

Current Use:

Intended Use: Residential

Verification of Site Details	Box 2 YES	NO
1. Are the Site Details above, correct?	✓	☐
If NO, are changes handwritten above or included on a separate sheet?	☐	
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment since the initial/last certification?	☐	✓
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?	☐	
3. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property since the initial/last certification?	☐	✓
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?	☐	
4. Has a change-of-use occurred since the initial/last certification?	☐	✓
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?	☐	
5. For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), has any new information revealed that assumptions made in the Qualitative Exposure Assessment for offsite contamination are no longer valid ?	☐	☐
If YES, is the new information or evidence that new information has been previously submitted included with this Certification?	☐	
6. For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), are the assumptions in the Qualitative Exposure Assessment still valid (must be certified every five years) ?	☐	☐
If NO, are changes in the assessment included with this certification?	☐	

SITE NO. C231012

Box 3

Description of Institutional Control	Control Certification YES	NO
River Place 2 LLC/C		
West 41st - West 42nd Sts.		
Environmental Easement		
S_B_L Image: 10890003		
Ground Water Use Restriction	✓	G
Landuse Restriction	✓	G
Soil Management Plan	✓	G

Box 4

Description of Engineering Control	Control Certification YES	NO
River Place 2 LLC/C		
West 41st - West 42nd Sts.		
Environmental Easement		
S_B_L Image: 10890003		
Cover System	✓	G
Subsurface Barriers	✓	G
Vapor Mitigation	✓	G

Attach documentation if IC/ECs cannot be certified or why IC/ECs are no longer applicable. (Also see instructions)

Control Description for Site No. C231012

Annual reports on quarterly groundwater monitoring and annual indoor air monitoring events are required as well as an annual certification that the ground cover is intact as well as the continued effectiveness of the newly-installed vapor barrier and that the gourndwater restrictions are still in force.

IC/EC CERTIFICATIONS
SITE NO. C231012

Box 5

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 2 and/or 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I BILL DACUNTO (print name) at 250 GREENWICH STREET NY NY 10007 (print business address)

am certifying as Managing agent for owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

by Bill Dacunto
Signature of Owner or Remedial Party Rendering Certification

7/13/10
Date

Box 6

QUALIFIED ENVIRONMENTAL PROFESSIONAL (QEP) SIGNATURE

I certify that all information and statements in Box 4 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Joel Blander (print name) at 21 Penn Plaza, NY, NY 10001 (print business address)

am certifying as a Qualified Environmental Professional for the Owner

(Owner or Remedial Party) for the Site named in the Site Details Section of this form.

STATE OF NEW YORK
JOEL B. LANDES
076348
LICENSED PROFESSIONAL ENGINEER
Stamp (If Required)

Joel B Landes
Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

7/13/10
Date

Control Certification Statement

For each Institutional or Engineering control listed above, I certify by checking "Yes" that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(d) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control.

(e) If a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

Attachment B
Site Cover Photographs

Photograph No. 1: View of paved walkway area located between River Place II building and W. 42nd Street.

Photograph No. 2: View landscaped area between River Place I and II buildings.

Photograph No. 3: View of capped driveway area for River Place I.

Photograph No. 4: View of surface cover inside restaurant on ground floor of River Place I.

Photograph No. 5: View of surface cover inside bowling alley on ground floor of River Place I.

Photograph No. 6: View of concrete floor in lowest level of River Place I.

Photograph No. 7: View of capped driveway area for River Place II.

Photograph No. 8: View of cellar floor in lowest level of River Place II

Photograph No. 9: View of hallway floor in lowest level of River Place II.

Photograph No. 10: View of basement parking ramp at River Place II.

Attachment C
Quarterly Groundwater Monitoring Report-
First Quarter 2010

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David T. Gockel, P.E., P.P.
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Alan R. Poeppel, P.E.

March 23, 2010

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- First 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 Site Management Plan (SMP) dated July 2006 has been approved by New York State Department of Environmental Conservation (NYSDEC). A Final Engineering Report (FER) was approved and a Certificate of Completion (COC) was issued on June 19, 2007.

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

First Quarter 2010 Groundwater Sampling

On March 1, 2010, Langan sampled wells MW-N2 and MW-S2 to represent the First 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 3.5 and 12.5 gallons were purged from each monitoring well, respectively. After purging, samples MW-N2-3-01-10 and MW-S2-3-01-10 were collected using a Waterra pump and dedicated tubing.

The groundwater samples, MW-N2-3-01-10 and MW-S2-3-01-10 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 or sheen were observed in MW-N2 and MW-S2. Slight petroleum odors were observed in MW-S2. The wells were observed to be in good condition.

Groundwater Analytical Results

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

MW-N2	
VOCs[1]	
• benzene	• ethylbenzene
• p/m-xylene	• naphthalene
• o-xylene	
SVOCs[1]	
• acenaphthene	• Phenanthrene
• naphthalene	

MW-S2	
VOCs[1]	
• benzene	• ethylbenzene
• p/m-xylene	• naphthalene
• o-xylene	• Isopropylbenzene
• toluene	
• 1,2,4-Trimethylbenzene	
SVOCs[1]	
• acenaphthene	• benao(a)pyrene
• fluorine	• naphthalene
• phenanthrene	

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

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

Please contact us if you have any questions.

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

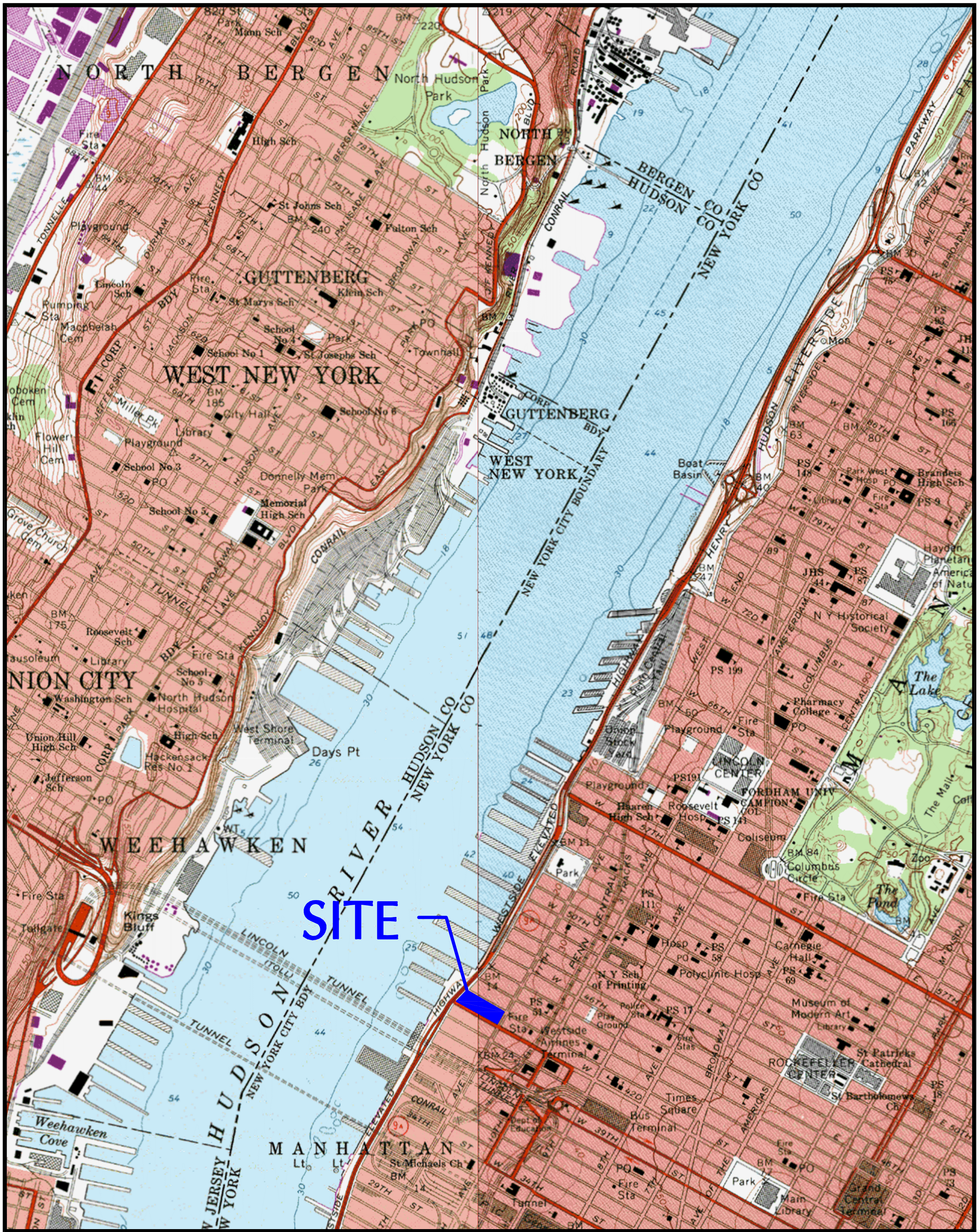
Joel B. Landes, P.E.
Senior Associate

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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NEW JERSEY PENNSYLVANIA **NEW YORK** CONNECTICUT FLORIDA NEVADA
NJ Certificate of Authorization No: 24GA27996400

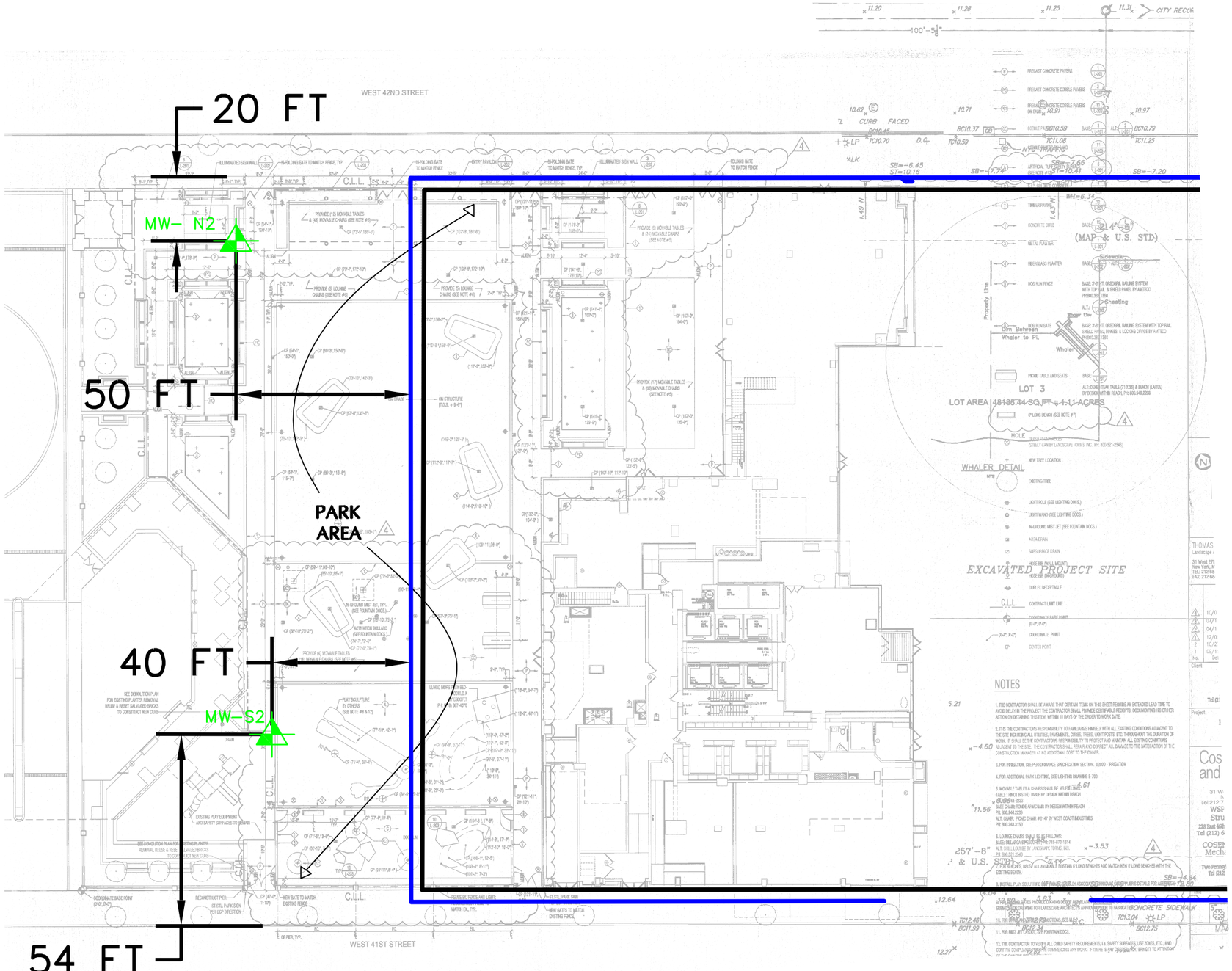
Project

SITE LOCATION MAP

RIVER PLACE I AND II

NEW YORK NEW YORK

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



NOTES:

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

2. MONITORING WELLS WERE RE-INSTALLED ON DECEMBER 28, 2009. LOCATIONS ARE APPROXIMATE.

LEGEND

MW– 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

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Project

MONITORING WELL LOCATION MAP

RIVER PLACE I & II

NEW YORK NEW YORK

Project No.	Date	Scale	Dwg. No.
170040901	01/21/2010	1" = 30'	2

TABLES

Table 1
VOC Exceedances in Groundwater Samples
River Place II
New York, New York
Langan Project No. 170040901

		Park Area Northern Well										Park Area Southern Well*										Quality Control											
		1st Quarter 2009		2nd Quarter 2009		3rd Quarter 2009*		4th Quarter 2009**		1st Quarter 2010		1st Quarter 2009		1st Quarter 2009		2nd Quarter 2009		4th Quarter 2009**		1st Quarter 2010		1st Quarter 2009		1st Quarter 2009		2nd Quarter 2009		3rd Quarter 2009		4th Quarter 2009		1st Quarter 2010	
SAMPLING DATE	**NYSDEC**	**3/16/2009**		**6/17/2009**		**9/18/2009**		**1/7/2010**		**3/1/2010**		**3/16/2009**		**3/16/2009**		**6/17/2009**		**1/7/2010**		**3/1/2010**		**3/16/2009**		**3/16/2009**		**6/17/2009**		**6/17/2009**		**1/7/2010**		**3/1/2010**	
LANGAN SAMPLE ID	**TOGS 1.1.1**	**MW-N-3-16-09**		**MW-N-6-17-09**		**MW-N-9-18-09**		**MW-N2-1-07-10**		**MW-N2-3-01-10**		**MW-S-3-16-09**		**DUP-3-16-09**		**MW-S-6-17-09**		**MW-S2-1-07-10**		**MW-S2-3-01-10**		**FB-3-16-09**		**TRIP BLANK**		**TRIP BLANK**		**TRIP BLANK**		**TRIP BLANK**		**TRIP BLANK**	
LAB SAMPLE ID	**AWQS**	**L0903143-01**		**L0908040-01**		**L0913185-01**		**L1000282-01**		**L1003006-01**		**L0903143-02**		**L0903143-03**		**L0908040-02**		**L1000282-02**		**L1003006-02**		**L0903143-04**		**L0903143-05**		**L0908040-03**		**L0913185-02**		**L1000282-03**		**L1003006-03**	
Volatile Organics by GC/MS (µg/L) Westborough Lab														Duplicate of MW-N-3-16-09																			
1,2,4-Trimethylbenzene	5	1200	U, D^{500}	1200	U, D^{500}	1200	U, D^{500}	1200	U	250	U, D^{100}	**76**	D^{25}	1200	U, D^{500}	25	U, D^{10}	**280**	D^{10}	**130**	D^{50}	2.5	U	2.5	U	2.5	U	0.5	U	2.5	U	2.5	U
1,3,5-Trimethylbenzene	5	1200	U, D^{500}	1200	U, D^{500}	1200	U, D^{500}	1200	U	250	U, D^{100}	62	U, D^{25}	1200	U, D^{500}	25	U, D^{10}	**61**	D^{10}	120	U, D^{50}	2.5	U	2.5	U	2.5	U	0.75	U	2.5	U	2.5	U
Benzene	1	**19000**	D^{500}	**17000**	D^{500}	**15000**	D^{500}	**2900**	D^{500}	**610**	D^{100}	**140**	D^{25}	**19000**	D^{500}	**170**	D^{10}	**200**	D^{10}	**75**	D^{50}	0.5	U	0.5	U	0.5	U	2.5	U	0.5	U	0.5	U
Ethylbenzene	5	**1900**	D^{500}	**1900**	D^{500}	**1800**	D^{500}	**1400**	D^{500}	**170**	D^{100}	**160**	D^{25}	**1900**	D^{500}	**20**	D^{10}	**710**	D^{10}	**330**	D^{50}	0.5	U	0.5	U	0.5	U	2.5	U	0.5	U	0.5	U
Isopropylbenzene	5	250	U, D^{500}	250	U, D^{500}	250	U, D^{500}	250	U	50	U, D^{100}	**35**	D^{25}	250	U, D^{500}	**5.4**	D^{10}	**64**	D^{10}	**30**	D^{50}	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
Methylene chloride	5	2500	U, D^{500}	2500	U, D^{500}	2500	U	2500	U	500	U, D^{100}	120	U, D^{25}	2500	U, D^{500}	50	U, D^{10}	**420**	D^{10}	250	U, D^{50}	5	U	5	U	5	U	0.5	U	5	U	5	U
Naphthalene	10	**15000**	D^{500}	**18000**	D^{500}	**19000**	D^{500}	**22000**	D^{500}	**4200**	D^{100}	**610**	D^{25}	**15000**	D^{500}	**350**	D^{10}	**4900**	D^{10}	**1800**	D^{50}	2.5	U	2.5	U	2.5	U	1	U	2.5	U	2.5	U
n-Butylbenzene	5	250	U, D^{500}	250	U, D^{500}	250	U	250	U	50	U, D^{100}	12	U, D^{25}	250	U, D^{500}	5	U, D^{10}	**6.2**	D^{10}	25	U, D^{50}	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
o-Xylene	5	**1400**	D^{500}	**1400**	D^{500}	**1200**	D^{500}	**1000**	D^{500}	**180**	D^{100}	**43**	D^{25}	**1300**	D^{500}	**16**	D^{10}	**320**	D^{10}	**110**	D^{50}	1	U	1	U	1	U	2	U	1	U	1	U
p/m-Xylene	5	**3200**	D^{500}	**3100**	D^{500}	**2900**	D^{500}	**2200**	D^{500}	**330**	D^{100}	**50**	D^{25}	**3100**	D^{500}	**21**	D^{10}	**410**	D^{10}	**150**	D^{50}	1	U	1	U	1	U	0.5	U	1	U	1	U
p-Isopropyltoluene	5	250	U, D^{500}	250	U, D^{500}	250	U	250	U	50	U, D^{100}	12	U, D^{25}	250	U, D^{500}	5	U, D^{10}	**11**	D^{10}	25	U, D^{50}	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	5	500	U, D^{500}	500	U, D^{500}	500	U	500	U	100	U, D^{100}	25	U, D^{25}	500	U, D^{500}	10	U, D^{10}	**40**		50	U, D^{50}	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	5	**4200**	D^{500}	**4400**	D^{500}	**4100**	D^{500}	**740**	D^{500}	75	U, D^{100}	19	U, D^{25}	**4000**	D^{500}	**29**	D^{10}	**180**	D^{10}	**46**	D^{50}	0.75	U	0.75	U	0.75	U	2.5	U	0.75	U	0.75	U

Notes:

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

* Monitoring well MW-S was destroyed during construction activities. No data is available for the 3rd Quarter 2009.

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

Qualifiers:

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

D^x - Dillution factor of X

Table 2
SVOC Exceedances in Groundwater Samples
River Place II
New York, New York
Langan Project No. 170040901

		Park Area Northern Well										Park Area Southern Well*												Quality Control	
		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter**		1st Quarter 2010		1st Quarter		1st Quarter		2nd Quarter		4th Quarter**		1st Quarter 2010		1st Quarter	
SAMPLING DATE	**NYSDEC**	**3/16/2009**		**6/17/2009**		**9/18/2009**		**1/7/2010**		**3/1/2010**		**3/16/2009**		**3/16/2009**		**6/17/2009**		**1/7/2010**		**3/1/2010**		**3/16/2009**	
LANGAN SAMPLE ID	**TOGS 1.1.1**	**MW-N-3-16-09**		**MW-N-6-17-09**		**MW-N-9-18-09**		**MW-N2-1-7-10**		**MW-N2-3-1-10**		**MW-S-3-16-09**		**DUP-3-16-09**		**MW-S-6-17-09**		**MW-S2-1-7-10**		**MW-S2-3-1-10**		**FB-3-16-09**	
LAB SAMPLE ID	**AWQS**	**L0903143-01**		**L0908040-01**		**L0913185-01**		**L1000282-01**		**L1003006-01**		**L0903143-02**		**L0903143-03**		**L0908040-02**		**L0908040-02**		**L1003006-02**		**L0903143-04**	
Semi-Volatile Organics (µg/L) **Westborough Lab**														Duplicate of MW-N-3-16-09									
2,4-Dimethylphenol	50	**1800**	D^{50}	**830**	D^{5}	**1200**	D^{100}	**270**	D^{5}	500	U, D^{50}	10	U	**1800**	D^{25}	10	U	10	U	500	U, D^{50}	9.6	U
Acenaphthene	20	**120**	D^{20}	**95**	D^{40}	**99**	D^{50}	**61**	D^{200}	**65**	D^{50}	14		**160**	D^{200}	0.2	U	200	U, D^{1000}	**63**	D^{50}	0.19	U
Benzo(a)pyrene	0	**7.2**	D^{20}	8.2	U, D^{40}	9.6	U, D^{50}	40	U, D^{200}	10	U, D^{50}	0.2	U	39	U, D^{5}	0.2	U	200	U, D^{1000}	15	D^{50}	0.19	U
Benzo(b)fluoranthene	0.002	**8.4**	D^{20}	8.2	U, D^{40}	9.6	U, D^{50}	40	U, D^{200}	10	U, D^{50}	0.2	U	39	U, D^{5}	0.2	U	200	U, D^{1000}	**14**	D^{50}	0.19	U
Bis(2-Ethylhexyl)phthalate	5	24	U, D^{5}	26	U, D^{5}	**46**	D^{5}	25	U, D^{5}	250	U, D^{50}	5	U	24	U, D^{5}	5.1	U	5	U	250	U, D^{50}	4.8	U
Chrysene	0.002	**4.1**	D^{20}	8.2	U, D^{40}	9.6	U, D^{50}	40	U, D^{200}	10	U, D^{50}	0.2	U	39	U, D^{5}	0.2	U	200	U, D^{1000}	10	U, D^{50}	0.19	U
Fluorene	50	**56**	D^{20}	**59**	D^{40}	47	D^{50}	40	U, D^{200}	39	D^{50}	8.9		**80**	D^{5}	0.2	U	200	U, D^{1000}	**61**	D^{50}	0.19	U
Naphthalene	10	**12000**	D^{400}	**8900**	D^{400}	**9400**	D^{1000}	**2200**	D^{200}	**2700**	D^{50}	**300**	D^{10}	**14000**	D^{400}	0.62		**11000**	D^{1000}	**1400**	D^{100}	0.34	
Phenanthrene	50	**100**	D^{20}	**53**	D^{40}	**62**	D^{50}	40	D^{200}	**52**	D^{50}	11		**150**	D^{5}	0.2	U	200	U, D^{1000}	**120**	D^{50}	0.19	U
Phenol	1	**120**	D^{5}	**61**	D^{5}	**87**	D^{5}	35	U, D^{5}	350	U, D^{5U}	7	U	**110**	D^{5}	7.2	U	**7.7**		350	U, D^{5U}	6.7	U

Notes:

- Groundwater samples were compared to New York State Department of Environmental Conservation Technical and Operations Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards (AWQS)
- NYSDEC TOGS exceedances are highlighted and BOLD
- Method Detection Limits (MDLs) exceeding NYSDEC TOGS 1.1.1 AWQS are likely the result of elevated analyte concentrations.
- A select subset of VOCs were run twice, once by Gas Chromatography/Mass Spectrometry (GC/MS) and once by Selected Ion Monitoring (SIM) analysis, per standard laboratory practice. For these select compounds, the SIM results are reported.
- ug/L: Micrograms per Liter

* Monitoring well MW-S was destroyed during construction activities. No data is available for the 3rd Quarter 2009.

** Monitoring wells MW-N and MW-S were destroyed due to construction activities. Monitoring wells MW-N2 and MW-S2 were installed in the approximate locations of MW-N and MW-S once construction was complete. New monitoring well locations are shown of Figure 2.

Qualifiers:

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

D^{X} - Dillution factor of X

Table 3
Total Metals and Cyanide Exceedances in Groundwater Samples
River Place II
New York, New York
Langan Project No. 170040901

		Park Area Northern Well										Park Area Southern Well*										Quality Control	
		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter**		1st Quarter2010		1st Quarter		1st Quarter		2nd Quarter		4th Quarter**		1st Quarter2010		1st Quarter	
LANGAN SAMPLE ID	**NYSDEC**	**MW-N-3-16-09**		**MW-N-6-17-09**		**MW-N-9/18/09**		**MW-N2-1-7-2010**		**MW-N2-3-1-2010**		**MW-S-3-16-09**		**DUP-3-16-09**		**MW-S-6-17-09**		**MW-S2-1-7-2010**		**MW-N2-3-1-2010**		**FB-3-16-09**	
SAMPLING DATE	**TOGS 1.1.1**	**3/16/2009**		**6/17/2009**		**9/18/2009**		**1/7/2010**		**3/1/2010**		**3/16/2009**		**3/16/2009**		**6/17/2009**		**1/7/2010**		**3/1/2010**		**3/16/2009**	
LAB SAMPLE ID	**AWQS**	**L0903143-01**		**L0908040-01**		**L0913185-01**		**L1000282-01**		**L1000282-01**		**L0903143-02**		**L0903143-03**		**L0908040-02**		**L1000282-02**		**L1000282-01**		**L0903143-04**	
Total Metals (µg/L) Wesborough Lab														Duplicate of MW-N-3-16-09									
Iron, Total	300	**5300**		**1900**		**1200**		**3500**		**4000**		**21000**		**2700**		**9200**		**3200**		**11000**		50	U
Lead, Total	25	15		10	U	10	U	10	U	10	U	**158**		10	U	**45**		17		**117**		10	U
Magnesium, Total	35000	**70000**		**70000**		**59000**		**83000**		**46000**		**71000**		**72000**		**48000**		**120000**		**87000**		100	U
Manganese, Total	300	**1570**		**1570**		**1340**		**746**		**603**		**598**		**1430**		**403**		**327**		**636**		10	U
Sodium, Total	20000	**300000**	D^{5}	**270000**		**250000**		**240000**		**110000**		**96000**		**320000**	D^{5}	**100000**		**98000**		**89000**		2000	U
Cyanide (ug/L) - Wesborough Lab																							
Cyanide, Total	200	**1100**	D^{10}	**789**	D^{5}	**799**	D^{2}	**890**	D^{10}	**1780**	D^{10}	**1920**	D^{10}	**1090**	D^{10}	**1920**	D^{5}	**1090**	D^{10}	**973**	D^{5}	5	U, D^{5}

Notes:
- Groundwater samples were compared to New York State Department of Environmental Conservation (NYSDEC) Technical and Operations Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards (AWQS).
- Values exceeding NYSDEC TOGS 1.1.1 AWQS are highlighted and **BOLD**.
- Method Detection Limits (MDLs) exceeding NYSDEC TOGS 1.1.1 AWQS are likely the result of elevated analyte concentrations.
- µg/L: Micrograms per liter

* Monitoring well MW-S was destroyed during construction activities. No data is available for the 3rd Quarter 2009.

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

Qualifiers:
U - Indicates the minimum detection Limit (MDL) is reported. The concentration of the analyte is less than the MDL.
D^{x} - Dillution factor of X

ATTACHMENT A

Groundwater Sampling Forms

GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: River Place	**Well#/Location:**	MW-N2	**Job No.**	**170040901**	
Date: 3/01/10	**Weather:**	35° Sunny	**Sampling Personnel:**	S. Flanagan	

Well Information

Sample ID	MW-N-3-01-10
Well Depth (ft)	19.7
Screened Interval (ft)	
Casing Elevation (msl)	
Casing Diameter (in)	
Depth to Water (ft)	9.4
Water Elevation (msl)	
Casing Volume (gal)	
PID/FID Reading (ppm)	

Purging Information

Purging Method	Wattera Pump
Purging Rate (l/m; gpm)	
Start Purge Time	10:35 AM
End Purge Time	11:25 AM
Volume Purged (gal)	Approx 3.5 gal

Sampling Information

Sampling Method	Wettera Pump
Start Sampling Time	11:30 AM
End Sampling Time	11:50 AM
Depth Before Sampling (ft)	9.5
Number Bottles Collected	8

	Parameters							
Sample Time	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temp (◦C)**	**ORP (mV)**	**Depth to Water (ft)**	**Purged Volume (gallons)**
10:40	5.26	2.62	157	11.81	6.47	95		
10:45	6.03	2.47	246	11.59	6.72	35		
10:50	6.73	2.80	224	10.53	8.62	-10		
10:55	7.17	2.22	171	10.62	8.39	-40		
11:00	7.46	2.17	116	10..67	8.23	-57		
11:05	7.47	2.27	52.1	10.67	7.09	-83		
11:10	7.35	9.00	38.4	11.34	7.04	-79		
11:15	7.62	2.14	35.7	11.28	7.23	-85		
11:20	7.68	2.19	28.4	11.10	7.47	-79		
11:25	7.62	2.03	30.1	11.33	7.23	-80	9.50	3.5

Notes/Remarks

Monitoring well was purged from 10:35 AM until 11:25 AM.

GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: River Place	**Well#/Location:** MW-S2	**Job No.** **170040901**
Date: 3/01/10	**Weather:** 42° Partly Cloudy	**Sampling Personnel:** S. Flanagan

Well Information

Sample ID	MW -S-3-01-10
Well Depth (ft)	19.89
Screened Interval (ft)	
Casing Elevation (msl)	
Casing Diameter (in)	
Depth to Water (ft)	8.36
Water Elevation (msl)	
Casing Volume (gal)	
PID/FID Reading (ppm)	

Purging Information

Purging Method	Wattera Pump
Purging Rate (l/m; gpm)	
Start Purge Time	12:35 PM
End Purge Time	14:40:00 PM
Volume Purged (gal)	Approx 12.5 gal

Sampling Information

Sampling Method	Wettera Pump
Start Sampling Time	14:45 PM
End Sampling Time	15:00 PM
Depth Before Sampling (ft)	8.5
Number Bottles Collected	8

	Parameters							
Sample Time	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temp (◦C)**	**ORP (mV)**	**Depth to Water (ft)**	**Purged Volume (gallons)**
12:40	6.69	2.96	-5*	10.58	11.10	-35		
12:45	7.53	2.54	-5*	10.57	10.71	17		
12:50	8.00	2.40	-5*	10.70	10.43	-70		
12:55	8.08	2.41	921	10.63	10.33	-67		
13:00	8.11	2.33	756	10.65	10.64	-70		
13:05	8.40	2.34	641	10.78	10.42	-88		
13:10	7.66	2.44	442	10.81	10.73	-98		
13:15	8.03	2.45	410	10.88	10.61	-99		
13:20	7.82	2.42	356	10.85	10.33	-98		
13:25	7.53	2.39	344	10.63	11.05	-98		
13:30	7.48	2.45	256	10.65	10.85	-97		
13:35	7.70	2.39	296	10.69	11.47	-101		
13:40	7.42	2.80	288	11.04	11.21	-108		
13:45	7.49	2.36	362	10.96	11.11	-127		
13:50	7.90	2.33	316	10.44	11.29	-128		
13:55	7.69	2.18	294	10.51	11.23	-111		
14:00	7.54	2.30	318	11.05	10.37	-106		
14:05	7.49	0.00	344	11.42	10.54	-104		
14:10	7.62	2.33	378	10.93	11.31	-104		
14:20	7.56	2.32	286	11.16	11.31	-90		
14:25	7.59	2.17	286	11.31	11.36	-99		
14:30	7.52	2.25	192	11.48	10.98	-103		
14:35	7.33	2.23	181	11.36	11.36	-94		
14:40	7.75	2.44	251	11.25	11.21	-99	8.5	12.5

Notes/Remarks

* The turbidity was likely higher than upper detection limit of Horiba causing equipment reading to blink -5.0. After two hours of purging the monitorin well the turbidity did not drop below 50 NTU's. The sample was collect at 14:45 PM

ATTACHMENT B

Laboratory Analytical Reports, Chain-of-Custody and Certifications (CD Enclosed)

ANALYTICAL REPORT

Lab Number:	L1003006
Client:	Langan Engineering and Environmental Ser 21 Penn Plaza 360 W. 31st Street 8th Floor New York, NY 10001-2727
ATTN:	Jason Hayes
Project Name:	RIVER PLACE I & II
Project Number:	170040901
Report Date:	03/08/10

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: L1003006
Report Date: 03/08/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1003006-01	MW-N2-3-01-10	W 42ND ST. NY, NY	03/01/10 11:30
L1003006-02	MW-S2-3-01-10	W 42ND ST. NY, NY	03/01/10 14:45
L1003006-03	TB-3-01-10	W 42ND ST. NY, NY	03/01/10 00:00

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

Lab Number: L1003006
Report Date: 03/08/10

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.

Volatile Organics

L1003006-01 and -02 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

Semivolatile Organics-SIM

L1003006-01 and -02 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

The surrogate recoveries for L1003006-01 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 analysis are reported.

L1003006-01 and -02 were re-analyzed on dilution in order to quantitate the samples within the calibration

Project Name:	RIVER PLACE I & II	**Lab Number:**	L1003006
Project Number:	170040901	**Report Date:**	03/08/10

Case Narrative (continued)

range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.
The WG402542-2/-3 LCS/LCSD recoveries associated with L1003006-01 and -02 were above the acceptance criteria for Pentachlorophenol (129%/117%); however, the associated samples were non-detect for this target compound. The results of the original analysis are reported.

Semivolatile Organics
L1003006-01 and -02 have elevated detection limits due to the dilution required by the sample matrices.
The surrogate recoveries for L1003006-01 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 analysis are reported.
The WG402543-2/-3 LCS/LCSD RPDs associated with L1003006-01 and -02 are above the acceptance criteria for 2,6-Dinitrotoluene (33%), Butyl benzyl phthalate (40%), P-Chloro-M-Cresol (35%), 4-Nitrophenol (51%) and 2,4-Dinitrophenol (31%); however, the individual LCS/LCSD recoveries are within method limits. The results of the associated samples are reported.

Metals
L1003006-01 and -02 have elevated detection limit for Antimony, Beryllium and Thallium due to the dilution required by the high concentrations of non-target analytes. One or more of the target analytes did not achieve the requested regulatory limits.

Cyanide, Total
L1003006-01 and -02 have elevated detection limits due to the dilution required to quantitate the results within the calibration range.
The WG402483-4 Matrrix Spike recovery associated with L1003006-01 (125%) is invalid because the sample concentration is greater than four times the spike amount added.

Project Name:	RIVER PLACE I & II	**Lab Number:**	L1003006
Project Number:	170040901	**Report Date:**	03/08/10

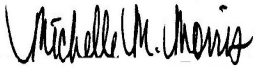
Case Narrative (continued)

Cyanide, Physiologically Available

L1003006-01 has an elevated detection limit due to the dilution required to quantitate the result within the calibration range.

The WG402481-3 Laboratory Duplicate RPD associated with L1003006-02 is outside the acceptance criteria (33%). The elevated RPD has been attributed to the non-homogenous nature of the sample utilized for the laboratory duplicate.

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: 

Title: Technical Director/Representative Date: 03/08/10

ORGANICS

VOLATILES

Project Name: RIVER PLACE I & II **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID:	L1003006-01	Date Collected:	03/01/10 11:30
Client ID:	MW-N2-3-01-10	Date Received:	03/01/10
Sample Location:	W 42ND ST. NY, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	03/08/10 12:56		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	500	100
1,1-Dichloroethane	ND		ug/l	75	100
Chloroform	ND		ug/l	75	100
Carbon tetrachloride	ND		ug/l	50	100
1,2-Dichloropropane	ND		ug/l	180	100
Dibromochloromethane	ND		ug/l	50	100
1,1,2-Trichloroethane	ND		ug/l	75	100
Tetrachloroethene	ND		ug/l	50	100
Chlorobenzene	ND		ug/l	50	100
Trichlorofluoromethane	ND		ug/l	250	100
1,2-Dichloroethane	ND		ug/l	50	100
1,1,1-Trichloroethane	ND		ug/l	50	100
Bromodichloromethane	ND		ug/l	50	100
trans-1,3-Dichloropropene	ND		ug/l	50	100
cis-1,3-Dichloropropene	ND		ug/l	50	100
1,1-Dichloropropene	ND		ug/l	250	100
Bromoform	ND		ug/l	200	100
1,1,2,2-Tetrachloroethane	ND		ug/l	50	100
Benzene	610		ug/l	50	100
Toluene	ND		ug/l	75	100
Ethylbenzene	170		ug/l	50	100
Chloromethane	ND		ug/l	250	100
Bromomethane	ND		ug/l	100	100
Vinyl chloride	ND		ug/l	100	100
Chloroethane	ND		ug/l	100	100
1,1-Dichloroethene	ND		ug/l	50	100
trans-1,2-Dichloroethene	ND		ug/l	75	100
Trichloroethene	ND		ug/l	50	100
1,2-Dichlorobenzene	ND		ug/l	250	100
1,3-Dichlorobenzene	ND		ug/l	250	100

Project Name: RIVER PLACE I & II **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID: L1003006-01 Date Collected: 03/01/10 11:30

Client ID: MW-N2-3-01-10 Date Received: 03/01/10

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

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Dichlorobenzene	ND		ug/l	250	100
Methyl tert butyl ether	ND		ug/l	100	100
p/m-Xylene	330		ug/l	100	100
o-Xylene	180		ug/l	100	100
cis-1,2-Dichloroethene	ND		ug/l	50	100
Dibromomethane	ND		ug/l	500	100
1,2,3-Trichloropropane	ND		ug/l	500	100
Acrylonitrile	ND		ug/l	500	100
Styrene	ND		ug/l	100	100
Dichlorodifluoromethane	ND		ug/l	500	100
Acetone	ND		ug/l	500	100
Carbon disulfide	ND		ug/l	500	100
2-Butanone	ND		ug/l	500	100
Vinyl acetate	ND		ug/l	500	100
4-Methyl-2-pentanone	ND		ug/l	500	100
2-Hexanone	ND		ug/l	500	100
Bromochloromethane	ND		ug/l	250	100
2,2-Dichloropropane	ND		ug/l	250	100
1,2-Dibromoethane	ND		ug/l	200	100
1,3-Dichloropropane	ND		ug/l	250	100
1,1,1,2-Tetrachloroethane	ND		ug/l	50	100
Bromobenzene	ND		ug/l	250	100
n-Butylbenzene	ND		ug/l	50	100
sec-Butylbenzene	ND		ug/l	50	100
tert-Butylbenzene	ND		ug/l	250	100
o-Chlorotoluene	ND		ug/l	250	100
p-Chlorotoluene	ND		ug/l	250	100
1,2-Dibromo-3-chloropropane	ND		ug/l	250	100
Hexachlorobutadiene	ND		ug/l	60	100
Isopropylbenzene	ND		ug/l	50	100
p-Isopropyltoluene	ND		ug/l	50	100
Naphthalene	4200		ug/l	250	100
n-Propylbenzene	ND		ug/l	50	100
1,2,3-Trichlorobenzene	ND		ug/l	250	100
1,2,4-Trichlorobenzene	ND		ug/l	250	100
1,3,5-Trimethylbenzene	ND		ug/l	250	100
1,2,4-Trimethylbenzene	ND		ug/l	250	100

Project Name: RIVER PLACE I & II **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID: L1003006-01 Date Collected: 03/01/10 11:30

Client ID: MW-N2-3-01-10 Date Received: 03/01/10

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

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,4-Diethylbenzene	ND		ug/l	200	100
4-Ethyltoluene	ND		ug/l	200	100
1,2,4,5-Tetramethylbenzene	ND		ug/l	200	100
Ethyl ether	ND		ug/l	250	100
trans-1,4-Dichloro-2-butene	ND		ug/l	250	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Project Name: RIVER PLACE I & II **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID:	L1003006-02	Date Collected:	03/01/10 14:45
Client ID:	MW-S2-3-01-10	Date Received:	03/01/10
Sample Location:	W 42ND ST. NY, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	03/08/10 13:31		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RDL	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	75		ug/l	25	50
Toluene	46		ug/l	38	50
Ethylbenzene	330		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:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID: L1003006-02 Date Collected: 03/01/10 14:45

Client ID: MW-S2-3-01-10 Date Received: 03/01/10

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

Parameter	Result	Qualifier	Units	RDL	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	150		ug/l	50	50
o-Xylene	110		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	30		ug/l	25	50
p-Isopropyltoluene	ND		ug/l	25	50
Naphthalene	1800		ug/l	120	50
n-Propylbenzene	ND		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	130		ug/l	120	50

Project Name: RIVER PLACE I & II **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID: L1003006-02 Date Collected: 03/01/10 14:45

Client ID: MW-S2-3-01-10 Date Received: 03/01/10

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

Parameter	Result	Qualifier	Units	RDL	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	108		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: RIVER PLACE I & II **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID:	L1003006-03	Date Collected:	03/01/10 00:00
Client ID:	TB-3-01-10	Date Received:	03/01/10
Sample Location:	W 42ND ST. NY, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	03/05/10 15:19		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RDL	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:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID: L1003006-03 Date Collected: 03/01/10 00:00

Client ID: TB-3-01-10 Date Received: 03/01/10

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

Parameter	Result	Qualifier	Units	RDL	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 **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID: L1003006-03 Date Collected: 03/01/10 00:00

Client ID: TB-3-01-10 Date Received: 03/01/10

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

Parameter	Result	Qualifier	Units	RDL	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	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

Project Name: RIVER PLACE I & II
Project Number: 170040901
Lab Number: L1003006
Report Date: 03/08/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 03/05/10 10:30
Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG403135-3				
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: L1003006
Report Date: 03/08/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 03/05/10 10:30
Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG403135-3				
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: L1003006
Report Date: 03/08/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 03/05/10 10:30
Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG403135-3				
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	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

Project Name: RIVER PLACE I & II
Project Number: 170040901
Lab Number: L1003006
Report Date: 03/08/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 03/08/10 12:22
Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG403172-3				
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: L1003006
Report Date: 03/08/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 03/08/10 12:22
Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG403172-3				
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: L1003006
Report Date: 03/08/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 03/08/10 12:22
Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG403172-3				
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	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE I & II

Project Number: 170040901

Lab Number: L1003006

Report Date: 03/08/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG403135-1 WG403135-2								
Chlorobenzene	97		96		75-130	1		20
Benzene	94		91		76-127	3		20
Toluene	100		100		76-125	0		20
1,1-Dichloroethene	102		99		61-145	3		20
Trichloroethene	95		90		71-120	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		103		70-130
Toluene-d8	100		103		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	105		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE I & II

Project Number: 170040901

Lab Number: L1003006

Report Date: 03/08/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG403172-1 WG403172-2								
Chlorobenzene	100		102		75-130	2		20
Benzene	98		99		76-127	1		20
Toluene	101		102		76-125	1		20
1,1-Dichloroethene	110		112		61-145	2		20
Trichloroethene	97		98		71-120	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		104		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	98		96		70-130
Dibromofluoromethane	105		106		70-130

SEMIVOLATILES

Project Name: RIVER PLACE I & II
Project Number: 170040901
Lab Number: L1003006
Report Date: 03/08/10

SAMPLE RESULTS

Lab ID:	L1003006-01	Date Collected:	03/01/10 11:30
Client ID:	MW-N2-3-01-10	Date Received:	03/01/10
Sample Location:	W 42ND ST. NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	03/03/10 00:18
Analytical Date:	03/04/10 18:48		
Analyst:	AS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab					
Acenaphthene	65		ug/l	10	50
2-Chloronaphthalene	ND		ug/l	10	50
Fluoranthene	ND		ug/l	10	50
Hexachlorobutadiene	ND		ug/l	25	50
Naphthalene	2000	E	ug/l	10	50
Benzo(a)anthracene	ND		ug/l	10	50
Benzo(a)pyrene	ND		ug/l	10	50
Benzo(b)fluoranthene	ND		ug/l	10	50
Benzo(k)fluoranthene	ND		ug/l	10	50
Chrysene	ND		ug/l	10	50
Acenaphthylene	27		ug/l	10	50
Anthracene	ND		ug/l	10	50
Benzo(ghi)perylene	ND		ug/l	10	50
Fluorene	39		ug/l	10	50
Phenanthrene	52		ug/l	10	50
Dibenzo(a,h)anthracene	ND		ug/l	10	50
Indeno(1,2,3-cd)Pyrene	ND		ug/l	10	50
Pyrene	ND		ug/l	10	50
2-Methylnaphthalene	120		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:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID: L1003006-01 Date Collected: 03/01/10 11:30

Client ID: MW-N2-3-01-10 Date Received: 03/01/10

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

Parameter	Result	Qualifier	Units	RDL	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 **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID:	L1003006-01	Date Collected:	03/01/10 11:30
Client ID:	MW-N2-3-01-10	Date Received:	03/01/10
Sample Location:	W 42ND ST. NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	03/03/10 00:19
Analytical Date:	03/07/10 00:23		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
1,2,4-Trichlorobenzene	ND		ug/l	250	50
Bis(2-chloroethyl)ether	ND		ug/l	250	50
1,2-Dichlorobenzene	ND		ug/l	250	50
1,3-Dichlorobenzene	ND		ug/l	250	50
1,4-Dichlorobenzene	ND		ug/l	250	50
3,3'-Dichlorobenzidine	ND		ug/l	2500	50
2,4-Dinitrotoluene	ND		ug/l	300	50
2,6-Dinitrotoluene	ND		ug/l	250	50
4-Chlorophenyl phenyl ether	ND		ug/l	250	50
4-Bromophenyl phenyl ether	ND		ug/l	250	50
Bis(2-chloroisopropyl)ether	ND		ug/l	250	50
Bis(2-chloroethoxy)methane	ND		ug/l	250	50
Hexachlorocyclopentadiene	ND		ug/l	1500	50
Isophorone	ND		ug/l	250	50
Nitrobenzene	ND		ug/l	250	50
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	750	50
n-Nitrosodi-n-propylamine	ND		ug/l	250	50
Bis(2-Ethylhexyl)phthalate	ND		ug/l	250	50
Butyl benzyl phthalate	ND		ug/l	250	50
Di-n-butylphthalate	ND		ug/l	250	50
Di-n-octylphthalate	ND		ug/l	250	50
Diethyl phthalate	ND		ug/l	250	50
Dimethyl phthalate	ND		ug/l	250	50
Biphenyl	ND		ug/l	250	50
4-Chloroaniline	ND		ug/l	250	50
2-Nitroaniline	ND		ug/l	250	50
3-Nitroaniline	ND		ug/l	250	50
4-Nitroaniline	ND		ug/l	350	50
Dibenzofuran	ND		ug/l	250	50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1000	50

Project Name: RIVER PLACE I & II **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID: L1003006-01 Date Collected: 03/01/10 11:30

Client ID: MW-N2-3-01-10 Date Received: 03/01/10

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

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acetophenone	ND		ug/l	1000	50
2,4,6-Trichlorophenol	ND		ug/l	250	50
P-Chloro-M-Cresol	ND		ug/l	250	50
2-Chlorophenol	ND		ug/l	300	50
2,4-Dichlorophenol	ND		ug/l	500	50
2,4-Dimethylphenol	ND		ug/l	500	50
2-Nitrophenol	ND		ug/l	1000	50
4-Nitrophenol	ND		ug/l	500	50
2,4-Dinitrophenol	ND		ug/l	1500	50
4,6-Dinitro-o-cresol	ND		ug/l	1000	50
Phenol	ND		ug/l	350	50
2-Methylphenol	ND		ug/l	300	50
3-Methylphenol/4-Methylphenol	ND		ug/l	300	50
2,4,5-Trichlorophenol	ND		ug/l	250	50
Benzoic Acid	ND		ug/l	2500	50
Benzyl Alcohol	ND		ug/l	500	50
Carbazole	ND		ug/l	250	50

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: L1003006
Report Date: 03/08/10

SAMPLE RESULTS

Lab ID:	L1003006-01	R	Date Collected:	03/01/10 11:30
Client ID:	MW-N2-3-01-10		Date Received:	03/01/10
Sample Location:	W 42ND ST. NY, NY		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	1,8270C		Extraction Date:	03/03/10 00:18
Analytical Date:	03/05/10 12:07			
Analyst:	AS			

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab					
Naphthalene	2700		ug/l	50	250

Project Name: RIVER PLACE I & II
Project Number: 170040901
Lab Number: L1003006
Report Date: 03/08/10

SAMPLE RESULTS

Lab ID:	L1003006-02	Date Collected:	03/01/10 14:45
Client ID:	MW-S2-3-01-10	Date Received:	03/01/10
Sample Location:	W 42ND ST. NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	03/03/10 00:18
Analytical Date:	03/04/10 19:16		
Analyst:	AS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab					
Acenaphthene	63		ug/l	10	50
2-Chloronaphthalene	ND		ug/l	10	50
Fluoranthene	27		ug/l	10	50
Hexachlorobutadiene	ND		ug/l	25	50
Naphthalene	1300	E	ug/l	10	50
Benzo(a)anthracene	ND		ug/l	10	50
Benzo(a)pyrene	15		ug/l	10	50
Benzo(b)fluoranthene	14		ug/l	10	50
Benzo(k)fluoranthene	ND		ug/l	10	50
Chrysene	ND		ug/l	10	50
Acenaphthylene	12		ug/l	10	50
Anthracene	19		ug/l	10	50
Benzo(ghi)perylene	ND		ug/l	10	50
Fluorene	61		ug/l	10	50
Phenanthrene	120		ug/l	10	50
Dibenzo(a,h)anthracene	ND		ug/l	10	50
Indeno(1,2,3-cd)Pyrene	ND		ug/l	10	50
Pyrene	36		ug/l	10	50
2-Methylnaphthalene	170		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:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID: L1003006-02 Date Collected: 03/01/10 14:45

Client ID: MW-S2-3-01-10 Date Received: 03/01/10

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

Parameter	Result	Qualifier	Units	RDL	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 **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID:	L1003006-02	Date Collected:	03/01/10 14:45
Client ID:	MW-S2-3-01-10	Date Received:	03/01/10
Sample Location:	W 42ND ST. NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	03/03/10 00:19
Analytical Date:	03/07/10 00:48		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
1,2,4-Trichlorobenzene	ND		ug/l	250	50
Bis(2-chloroethyl)ether	ND		ug/l	250	50
1,2-Dichlorobenzene	ND		ug/l	250	50
1,3-Dichlorobenzene	ND		ug/l	250	50
1,4-Dichlorobenzene	ND		ug/l	250	50
3,3'-Dichlorobenzidine	ND		ug/l	2500	50
2,4-Dinitrotoluene	ND		ug/l	300	50
2,6-Dinitrotoluene	ND		ug/l	250	50
4-Chlorophenyl phenyl ether	ND		ug/l	250	50
4-Bromophenyl phenyl ether	ND		ug/l	250	50
Bis(2-chloroisopropyl)ether	ND		ug/l	250	50
Bis(2-chloroethoxy)methane	ND		ug/l	250	50
Hexachlorocyclopentadiene	ND		ug/l	1500	50
Isophorone	ND		ug/l	250	50
Nitrobenzene	ND		ug/l	250	50
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	750	50
n-Nitrosodi-n-propylamine	ND		ug/l	250	50
Bis(2-Ethylhexyl)phthalate	ND		ug/l	250	50
Butyl benzyl phthalate	ND		ug/l	250	50
Di-n-butylphthalate	ND		ug/l	250	50
Di-n-octylphthalate	ND		ug/l	250	50
Diethyl phthalate	ND		ug/l	250	50
Dimethyl phthalate	ND		ug/l	250	50
Biphenyl	ND		ug/l	250	50
4-Chloroaniline	ND		ug/l	250	50
2-Nitroaniline	ND		ug/l	250	50
3-Nitroaniline	ND		ug/l	250	50
4-Nitroaniline	ND		ug/l	350	50
Dibenzofuran	ND		ug/l	250	50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	1000	50

Project Name: RIVER PLACE I & II **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID: L1003006-02 Date Collected: 03/01/10 14:45

Client ID: MW-S2-3-01-10 Date Received: 03/01/10

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

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
Acetophenone	ND		ug/l	1000	50
2,4,6-Trichlorophenol	ND		ug/l	250	50
P-Chloro-M-Cresol	ND		ug/l	250	50
2-Chlorophenol	ND		ug/l	300	50
2,4-Dichlorophenol	ND		ug/l	500	50
2,4-Dimethylphenol	ND		ug/l	500	50
2-Nitrophenol	ND		ug/l	1000	50
4-Nitrophenol	ND		ug/l	500	50
2,4-Dinitrophenol	ND		ug/l	1500	50
4,6-Dinitro-o-cresol	ND		ug/l	1000	50
Phenol	ND		ug/l	350	50
2-Methylphenol	ND		ug/l	300	50
3-Methylphenol/4-Methylphenol	ND		ug/l	300	50
2,4,5-Trichlorophenol	ND		ug/l	250	50
Benzoic Acid	ND		ug/l	2500	50
Benzyl Alcohol	ND		ug/l	500	50
Carbazole	ND		ug/l	250	50

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 **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID:	L1003006-02	R	Date Collected:	03/01/10 14:45
Client ID:	MW-S2-3-01-10		Date Received:	03/01/10
Sample Location:	W 42ND ST. NY, NY		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	1,8270C		Extraction Date:	03/03/10 00:18
Analytical Date:	03/05/10 12:35			
Analyst:	AS			

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab					
Naphthalene	1400		ug/l	20	100

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

Lab Number: L1003006
Report Date: 03/08/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 03/04/10 14:06
Analyst: AS

Extraction Method: EPA 3510C
Extraction Date: 03/03/10 00:18

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG402542-1				
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: L1003006
Report Date: 03/08/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 03/04/10 14:06
Analyst: AS

Extraction Method: EPA 3510C
Extraction Date: 03/03/10 00:18

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG402542-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	84		33-120

Project Name: RIVER PLACE I & II
Project Number: 170040901
Lab Number: L1003006
Report Date: 03/08/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 03/05/10 12:46
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 03/03/10 00:19

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG402543-1				
1,2,4-Trichlorobenzene	ND		ug/l	5.0
Bis(2-chloroethyl)ether	ND		ug/l	5.0
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
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
Hexachlorocyclopentadiene	ND		ug/l	30
Isophorone	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
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
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20
Acetophenone	ND		ug/l	20

Project Name: RIVER PLACE I & II
Project Number: 170040901
Lab Number: L1003006
Report Date: 03/08/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 03/05/10 12:46
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 03/03/10 00:19

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG402543-1				
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
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	28		21-120
Phenol-d6	19		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	47		15-120
2,4,6-Tribromophenol	45		10-120
4-Terphenyl-d14	54		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE I & II

Project Number: 170040901

Lab Number: L1003006

Report Date: 03/08/10

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: WG402542-2 WG402542-3								
Acenaphthene	61		52		37-111	16		40
2-Chloronaphthalene	80		68		40-140	16		40
Fluoranthene	90		87		40-140	3		40
Anthracene	70		70		40-140	0		40
Pyrene	87		84		26-127	4		40
Pentachlorophenol	**129**	Q	**117**	Q	9-103	10		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	49		36		21-120
Phenol-d6	34		25		10-120
Nitrobenzene-d5	85		68		23-120
2-Fluorobiphenyl	68		55		15-120
2,4,6-Tribromophenol	65		66		10-120
4-Terphenyl-d14	86		85		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE I & II

Project Number: 170040901

Lab Number: L1003006

Report Date: 03/08/10

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: WG402543-2 WG402543-3								
1,2,4-Trichlorobenzene	41		40		39-98	2		30
1,2-Dichlorobenzene	44		42		40-140	5		30
1,4-Dichlorobenzene	40		38		36-97	5		30
2,4-Dinitrotoluene	60		79		24-96	27		30
2,6-Dinitrotoluene	60		84		40-140	**33**	Q	30
4-Chlorophenyl phenyl ether	54		70		40-140	26		30
n-Nitrosodi-n-propylamine	60		77		41-116	25		30
Butyl benzyl phthalate	58		87		40-140	**40**	Q	30
P-Chloro-M-Cresol	59		84		23-97	**35**	Q	30
2-Chlorophenol	57		72		27-123	23		30
2-Nitrophenol	60		77		30-130	25		30
4-Nitrophenol	31		52		10-80	**51**	Q	30
2,4-Dinitrophenol	33		45		20-130	**31**	Q	30
Phenol	27		34		12-110	23		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE I & II

Project Number: 170040901

Lab Number: L1003006

Report Date: 03/08/10

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: WG402543-2 WG402543-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	39		47		21-120
Phenol-d6	28		34		10-120
Nitrobenzene-d5	67		90		23-120
2-Fluorobiphenyl	57		81		15-120
2,4,6-Tribromophenol	56		80		10-120
4-Terphenyl-d14	56		81		33-120

METALS

Project Name: RIVER PLACE I & II **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID: L1003006-01 Date Collected: 03/01/10 11:30

Client ID: MW-N2-3-01-10 Date Received: 03/01/10

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

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab										
Aluminum, Total	0.24		mg/l	0.10	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Antimony, Total	ND		mg/l	0.0020	4	03/02/10 14:00	03/03/10 20:12	EPA 3005A	1,6020	BM
Arsenic, Total	0.006		mg/l	0.005	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Barium, Total	0.211		mg/l	0.010	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Beryllium, Total	ND		mg/l	0.0020	4	03/02/10 14:00	03/03/10 20:12	EPA 3005A	1,6020	BM
Cadmium, Total	ND		mg/l	0.005	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Calcium, Total	240		mg/l	0.10	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Copper, Total	ND		mg/l	0.010	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Iron, Total	4.0		mg/l	0.05	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Lead, Total	ND		mg/l	0.010	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Magnesium, Total	46		mg/l	0.10	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Manganese, Total	0.603		mg/l	0.010	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Mercury, Total	ND		mg/l	0.0002	1	03/02/10 16:15	03/03/10 12:14	EPA 7470A	1,7470A	EZ
Nickel, Total	ND		mg/l	0.025	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Potassium, Total	19		mg/l	2.5	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Silver, Total	ND		mg/l	0.007	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Sodium, Total	110		mg/l	2.0	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Thallium, Total	ND		mg/l	0.0020	4	03/02/10 14:00	03/03/10 20:12	EPA 3005A	1,6020	BM
Vanadium, Total	ND		mg/l	0.010	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI
Zinc, Total	ND		mg/l	0.050	1	03/02/10 09:40	03/04/10 17:05	EPA 3005A	1,6010B	AI

Project Name: RIVER PLACE I & II **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

SAMPLE RESULTS

Lab ID: L1003006-02 Date Collected: 03/01/10 14:45

Client ID: MW-S2-3-01-10 Date Received: 03/01/10

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

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab										
Aluminum, Total	5.0		mg/l	0.10	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Antimony, Total	ND		mg/l	0.0020	4	03/02/10 14:00	03/03/10 20:30	EPA 3005A	1,6020	BM
Arsenic, Total	0.013		mg/l	0.005	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Barium, Total	0.153		mg/l	0.010	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Beryllium, Total	ND		mg/l	0.0020	4	03/02/10 14:00	03/03/10 20:30	EPA 3005A	1,6020	BM
Cadmium, Total	ND		mg/l	0.005	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Calcium, Total	270		mg/l	0.10	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Copper, Total	0.026		mg/l	0.010	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Iron, Total	11		mg/l	0.05	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Lead, Total	0.117		mg/l	0.010	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Magnesium, Total	87		mg/l	0.10	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Manganese, Total	0.636		mg/l	0.010	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Mercury, Total	0.0006		mg/l	0.0002	1	03/02/10 16:15	03/03/10 12:16	EPA 7470A	1,7470A	EZ
Nickel, Total	ND		mg/l	0.025	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Potassium, Total	18		mg/l	2.5	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Silver, Total	ND		mg/l	0.007	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Sodium, Total	89		mg/l	2.0	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Thallium, Total	ND		mg/l	0.0020	4	03/02/10 14:00	03/03/10 20:30	EPA 3005A	1,6020	BM
Vanadium, Total	0.016		mg/l	0.010	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI
Zinc, Total	0.054		mg/l	0.050	1	03/02/10 09:40	03/04/10 17:08	EPA 3005A	1,6010B	AI

Project Name: RIVER PLACE I & II **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG402471-1									
Aluminum, Total	ND		mg/l	0.10	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Arsenic, Total	ND		mg/l	0.005	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Barium, Total	ND		mg/l	0.010	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Cadmium, Total	ND		mg/l	0.005	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Calcium, Total	ND		mg/l	0.10	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Copper, Total	ND		mg/l	0.010	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Iron, Total	ND		mg/l	0.05	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Lead, Total	ND		mg/l	0.010	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Magnesium, Total	ND		mg/l	0.10	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Manganese, Total	ND		mg/l	0.010	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Nickel, Total	ND		mg/l	0.025	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Potassium, Total	ND		mg/l	2.5	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Silver, Total	ND		mg/l	0.007	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Sodium, Total	ND		mg/l	2.0	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Vanadium, Total	ND		mg/l	0.010	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI
Zinc, Total	ND		mg/l	0.050	1	03/02/10 09:40	03/04/10 16:40	1,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG402478-1									
Antimony, Total	ND		mg/l	0.0005	1	03/02/10 14:00	03/03/10 20:00	1,6020	BM
Beryllium, Total	ND		mg/l	0.0005	1	03/02/10 14:00	03/03/10 20:00	1,6020	BM
Thallium, Total	ND		mg/l	0.0005	1	03/02/10 14:00	03/03/10 20:00	1,6020	BM

Project Name: RIVER PLACE I & II **Lab Number:** L1003006

Project Number: 170040901 **Report Date:** 03/08/10

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG402503-1									
Mercury, Total	ND		mg/l	0.0002	1	03/02/10 16:15	03/03/10 11:54	1,7470A	EZ

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE I & II

Project Number: 170040901

Lab Number: L1003006

Report Date: 03/08/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG402471-2								
Aluminum, Total	100		-		80-120	-		
Arsenic, Total	108		-		80-120	-		
Barium, Total	95		-		80-120	-		
Cadmium, Total	110		-		80-120	-		
Calcium, Total	99		-		80-120	-		
Chromium, Total	100		-		80-120	-		
Cobalt, Total	99		-		80-120	-		
Copper, Total	105		-		80-120	-		
Iron, Total	98		-		80-120	-		
Lead, Total	104		-		80-120	-		
Magnesium, Total	100		-		80-120	-		
Manganese, Total	98		-		80-120	-		
Nickel, Total	102		-		80-120	-		
Potassium, Total	99		-		80-120	-		
Selenium, Total	111		-		80-120	-		
Silver, Total	97		-		80-120	-		
Sodium, Total	100		-		80-120	-		
Vanadium, Total	107		-		80-120	-		
Zinc, Total	103		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE I & II

Project Number: 170040901

Lab Number: L1003006

Report Date: 03/08/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG402478-2					
Antimony, Total	91	-	80-120	-	
Beryllium, Total	104	-	80-120	-	
Thallium, Total	90	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG402503-2					
Mercury, Total	112	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

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

Lab Number: L1003006
Report Date: 03/08/10

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: WG402471-4 QC Sample: L1002977-01 Client ID: MS Sample												
Aluminum, Total	3.0	2	5.1	105		-	-		75-125	-		20
Arsenic, Total	0.007	0.12	0.132	104		-	-		75-125	-		20
Barium, Total	0.037	2	1.86	91		-	-		75-125	-		20
Cadmium, Total	ND	0.051	0.055	107		-	-		75-125	-		20
Calcium, Total	13	10	23	100		-	-		75-125	-		20
Chromium, Total	ND	0.2	0.20	100		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.479	96		-	-		75-125	-		20
Copper, Total	0.023	0.25	0.281	103		-	-		75-125	-		20
Iron, Total	3.0	1	3.8	80		-	-		75-125	-		20
Lead, Total	0.025	0.51	0.530	99		-	-		75-125	-		20
Magnesium, Total	1.4	10	11	96		-	-		75-125	-		20
Manganese, Total	0.077	0.5	0.540	92		-	-		75-125	-		20
Nickel, Total	ND	0.5	0.498	100		-	-		75-125	-		20
Potassium, Total	3.6	10	13	94		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.129	108		-	-		75-125	-		20
Silver, Total	ND	0.05	0.049	97		-	-		75-125	-		20
Sodium, Total	42	10	52	100		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.543	109		-	-		75-125	-		20
Zinc, Total	0.115	0.5	0.609	99		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

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

Lab Number: L1003006
Report Date: 03/08/10

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: WG402478-4 QC Sample: L1003006-01 Client ID: MW-N2-3-01-10										
Antimony, Total	ND	0.5	0.5134	103		-	-	80-120	-	20
Beryllium, Total	ND	0.05	0.0579	116		-	-	80-120	-	20
Thallium, Total	ND	0.12	0.1200	100		-	-	80-120	-	20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG402503-4 QC Sample: L1002977-01 Client ID: MS Sample										
Mercury, Total	ND	0.001	0.0013	**135**	Q	-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

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

Lab Number: L1003006
Report Date: 03/08/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG402471-3 QC Sample: L1002977-01 Client ID: DUP Sample						
Arsenic, Total	0.007	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	ND	ND	mg/l	NC		20
Copper, Total	0.023	0.024	mg/l	6		20
Lead, Total	0.025	0.027	mg/l	4		20
Nickel, Total	ND	ND	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.115	0.111	mg/l	4		20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG402478-3 QC Sample: L1003006-01 Client ID: MW-N2-3-01-10						
Antimony, Total	ND	ND	mg/l	NC		20
Beryllium, Total	ND	ND	mg/l	NC		20
Thallium, Total	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG402503-3 QC Sample: L1002977-01 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: L1003006
Report Date: 03/08/10

SAMPLE RESULTS

Lab ID: L1003006-01
Client ID: MW-N2-3-01-10
Sample Location: W 42ND ST. NY, NY
Matrix: Water
Date Collected: 03/01/10 11:30
Date Received: 03/01/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Cyanide, Total	1.78		mg/l	0.050	10	03/02/10 16:00	03/03/10 13:12	1,9010B/9012A	JO
Cyanide, Physiologically Available	0.848		mg/l	0.050	10	03/04/10 09:00	03/04/10 14:28	64,9014(M)	JO

Project Name: RIVER PLACE I & II
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SAMPLE RESULTS

Lab ID: L1003006-02
Client ID: MW-S2-3-01-10
Sample Location: W 42ND ST. NY, NY
Matrix: Water
Date Collected: 03/01/10 14:45
Date Received: 03/01/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Cyanide, Total	0.973		mg/l	0.025	5	03/02/10 16:00	03/03/10 13:30	1,9010B/9012A	JO
Cyanide, Physiologically Available	0.316		mg/l	0.005	1	03/04/10 09:00	03/04/10 14:30	64,9014(M)	JO

Project Name: RIVER PLACE I & II
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Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG402481-1									
Cyanide, Physiologically Available	ND		mg/l	0.005	1	03/04/10 09:00	03/04/10 14:25	64,9014(M)	JO
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG402483-1									
Cyanide, Total	ND		mg/l	0.005	1	03/02/10 16:00	03/03/10 13:09	1,9010B/9012A	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE I & II

Project Number: 170040901

Lab Number: L1003006

Report Date: 03/08/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG402481-2								
Cyanide, Physiologically Available	100		-		80-120	-		
General Chemistry - Westborough Lab NEGATIVE LCS Associated sample(s): 01-02 Batch: WG402481-4								
Cyanide, Physiologically Available	**0**		-		0-10	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG402483-2								
Cyanide, Total	96		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

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

Lab Number: L1003006
Report Date: 03/08/10

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: WG402483-3 WG402483-4 QC Sample: L1003006-01 Client ID: MW-N2-3-01-10												
Cyanide, Total	1.78	0.2	2.01	115		2.03	**125**	Q	80-120	8		30

Lab Duplicate Analysis
Batch Quality Control

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

Lab Number: L1003006
Report Date: 03/08/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG402481-3 QC Sample: L1003006-02 Client ID: MW-S2-3-01-10						
Cyanide, Physiologically Available	0.316	0.440	mg/l	**33**	Q	20

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

Lab Number: L1003006
Report Date: 03/08/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L1003006-01A	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1003006-01B	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1003006-01C	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1003006-01D	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1003006-01E	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1003006-01F	Plastic 500ml HNO3 preserved	A	<2	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)
L1003006-01G	Plastic 250ml NaOH preserved	A	>12	2.2	Y	Absent	TCN-9010(14)
L1003006-01H	Plastic 250ml NaOH preserved	A	>12	2.2	Y	Absent	PACN(14)
L1003006-02A	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1003006-02B	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1003006-02C	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1003006-02D	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1003006-02E	Amber 1000ml unpreserved	A	7	2.2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1003006-02F	Plastic 500ml HNO3 preserved	A	<2	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)
L1003006-02G	Plastic 250ml NaOH preserved	A	>12	2.2	Y	Absent	TCN-9010(14)
L1003006-02H	Plastic 250ml NaOH preserved	A	>12	2.2	Y	Absent	PACN(14)
L1003006-03A	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1003006-03B	Vial HCl preserved	A	N/A	2.2	Y	Absent	NYTCL-8260(14)

*Hold days indicated by values in parentheses

Project Name:	RIVER PLACE I & II	**Lab Number:**	L1003006
Project Number:	170040901	**Report Date:**	03/08/10

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.
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.
RDL	· Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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 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.
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 RDL. (Metals only.)
R	- Analytical results are from sample re-analysis.
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 reported detection limit (RDL) for the sample.

Report Format: Data Usability Report

Project Name:	RIVER PLACE I & II	**Lab Number:**	L1003006
Project Number:	170040901	**Report Date:**	03/08/10

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 Woods Hole Labs 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 Woods Hole Labs.

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 January 11, 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: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)
Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH.)
Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B,4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)
Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water
Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)
(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)
353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.
Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)
(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.
Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D
Non-Potable Water
Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)
(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Tl, V,Zn,Ca,Mg,Na,K)
245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)
(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.)
Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, S\M3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)
Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624. 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)
Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NY-DOH Certificate for Potable and Non-Potable Water.

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.)

Utah Department of Health Certificate/Lab ID: AAMA. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: Chloride EPA 300.0)

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A , 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035.)

Analytes Not Accredited by NELAP
Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

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:

ALPHA Job #:

Client Information

Client: Langan Engineering

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

Phone: 212 479 5400

Fax:

Email: SFlanagan, JCanouse, JHayes@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: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 170041901

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	ANALYSIS: VOC (EPA 8260)	SVOC (EPA 8270)	TAL Metals (EPA 6010/7000)	Cyanide (Total) (EPA 9014)	Hexavalent Chromium (EPA 7196A)	TOTAL # BOTTLES	Sample Specific Comments
	MW-N-3-01-10	3/1/2010	~~1445~~ 1430	GW	SPF	✓	✓	✓	✓	✓		
	MW-S-3-01-10	3/1/2010	1445	GW	SPF	✓	✓	✓	✓	✓		
	TB-3-01-10	3/1/2010	935	GW	SPF	✓						
Please change IDs to the Following:	→ MW-S2-3-01-10											
	→ MW-N2-3-01-10											

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

Container Type												
Preservative												

Relinquished By:	Date/Time	Received By:	Date/Time
Langan	3/1/2010 @ 1530	Kpearson	3-1-10/15:30

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)

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 3/1/10

ALPHA Job #: L1003006

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Langan Engineering
Address: 360 W 31st St 8th fl
New York, NY
Phone: 212 479 5400
Fax:
Email: SFlanagan, JCarouse, JHayes@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: 3/8/10 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:

ANALYSIS: VOC (EPA 8260); SVOC (EPA 8270); TAL Metals (EPA SW6000/7000); Cyanide (total) EPA SW9012; Cyanide (amenable) (EPA SW9014)

SAMPLE HANDLING
Filtration ______
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

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	Cyanide (total)	Cyanide (amenable)	Sample Specific Comments	TOTAL # BOTTLES
03006-1	MW-N-3-01-10	3/1/2010	~~1445~~ 1130	MW	SPF	✓	✓	✓	✓	✓		
2	MW-S-3-01-10	3/1/2010	1445	MW	SPF	✓	✓	✓	✓	✓		
3	TB-3-01-10	3/1/2010	935	MW	SPF	✓						

Container Type	
Preservative	

Relinquished By:	Date/Time	Received By:	Date/Time
[signature] / Langan	3/1/2010 @ 1530	RPearson	3-1-10/1530
RPearson	3-1-10/ 1700	[signature]	3/1/10 1700
[signature]	3/1/10 1840	[signature]	3/1/10 1840
[signature]	3/1/10 2125	[signature]	3/1/10 2125

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)

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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MANSFIELD, MA 02048

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EPA Lab Code: MA00030

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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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MANSFIELD, MA 02048

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All approved analytes are listed below:

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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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

Serial No.: 39518

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

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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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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 SOLID AND HAZARDOUS WASTE
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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All approved analytes are listed below:

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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All approved analytes are listed below:

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

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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

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

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)
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

Serial No.: 39215

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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:

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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All approved analytes are listed below:

Volatile Halocarbons

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

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All approved analytes are listed below:

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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All approved analytes are listed below:

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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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

Serial No.: 39216

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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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All approved analytes are listed below:

Wastewater Metals I		**Wastewater Metals II**	
Iron, Total	EPA 6010B	Antimony, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.7 Rev. 4.4		EPA 200.8 Rev. 5.4
	EPA 200.8 Rev. 5.4		EPA 6010B
	EPA 6010B		EPA 6020
	EPA 6020	Arsenic, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4		EPA 200.8 Rev. 5.4
	EPA 6010B		EPA 6010B
Manganese, Total	EPA 200.7 Rev. 4.4		EPA 6020
	EPA 200.8 Rev. 5.4	Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B		EPA 200.8 Rev. 5.4
	EPA 6020		EPA 6010B
Nickel, Total	EPA 200.7 Rev. 4.4		EPA 6020
	EPA 200.8 Rev. 5.4	Chromium VI	EPA 7196A
	EPA 6010B		SM 18-19 3500-Cr D
	EPA 6020	Mercury, Total	EPA 245.1 Rev. 3.0
Potassium, Total	EPA 200.7 Rev. 4.4		EPA 245.2 Rev. 1974
	EPA 6010B		EPA 7470A
Silver, Total	EPA 200.7 Rev. 4.4	Selenium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4		EPA 200.8 Rev. 5.4
	EPA 6010B		EPA 6010B
	EPA 6020		EPA 6020
Sodium, Total	EPA 200.7 Rev. 4.4	Vanadium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B		EPA 200.8 Rev. 5.4
Wastewater Metals II			EPA 6010B
Aluminum, Total	EPA 200.7 Rev. 4.4		EPA 6020
	EPA 200.8 Rev. 5.4	Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 6010B		EPA 200.8 Rev. 5.4
	EPA 6020		EPA 6010B

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All approved analytes are listed below:

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

Serial No.: 39217

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EPA Lab Code: MA00086

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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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All approved analytes are listed below:

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

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8 WALKUP DR
WESTBOROUGH, MA 01581-1019

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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

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Attachment D
Quarterly Groundwater Monitoring Report-Second Quarter 2010

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

David T. Gockel, P.E., P.P.
George P. Kelley, P.E.
George E. Derrick, P.E.
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Gregory L. Biesiadecki, P.E.
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Donald J. Hodson, P.E.
Joel B. Landes, P.E.
Alan R. Poeppel, P.E.

July 14, 2010

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- Second 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, and March 1, 2010. This report summarizes the most recent results from sampling conducted on June 10, 2010.

Second Quarter 2010 Groundwater Sampling

On June 10, 2010, Langan sampled wells MW-N2 and MW-S2 to represent the Second 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 6 and 13 gallons were purged from each monitoring well, respectively. After purging, samples MW-N2-6-10-10 and MW-S2-6-10-10 were collected using a Waterra pump and dedicated tubing.

The groundwater samples, MW-N2-6-10-10 and MW-S2-6-10-10 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. Slight petroleum odors and sheen were observed in MW-S2. The wells were observed to be in good condition.

Groundwater Analytical Results

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

MW-N2	
VOCs[1]	
• benzene	• ethylbenzene
• p/m-xylene	• naphthalene
• o-xylene	
SVOCs[1]	
• Chrysene	• Phenanthrene
• Phenol	

MW-S2	
VOCs[1]	
• benzene	• ethylbenzene
• p/m-xylene	• naphthalene
• o-xylene	• Isopropylbenzene
• 1,2,4-Trimethylbenzene	
SVOCs[1]	
• Chrysene	• Benzo(b)flouranthene

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

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 Second Quarter 2010 sampling rounds are summarized in Tables 1 through 3 and the laboratory analytical report for Second Quarter 2010 is included as Attachment B.

Please contact us if you have any questions.

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

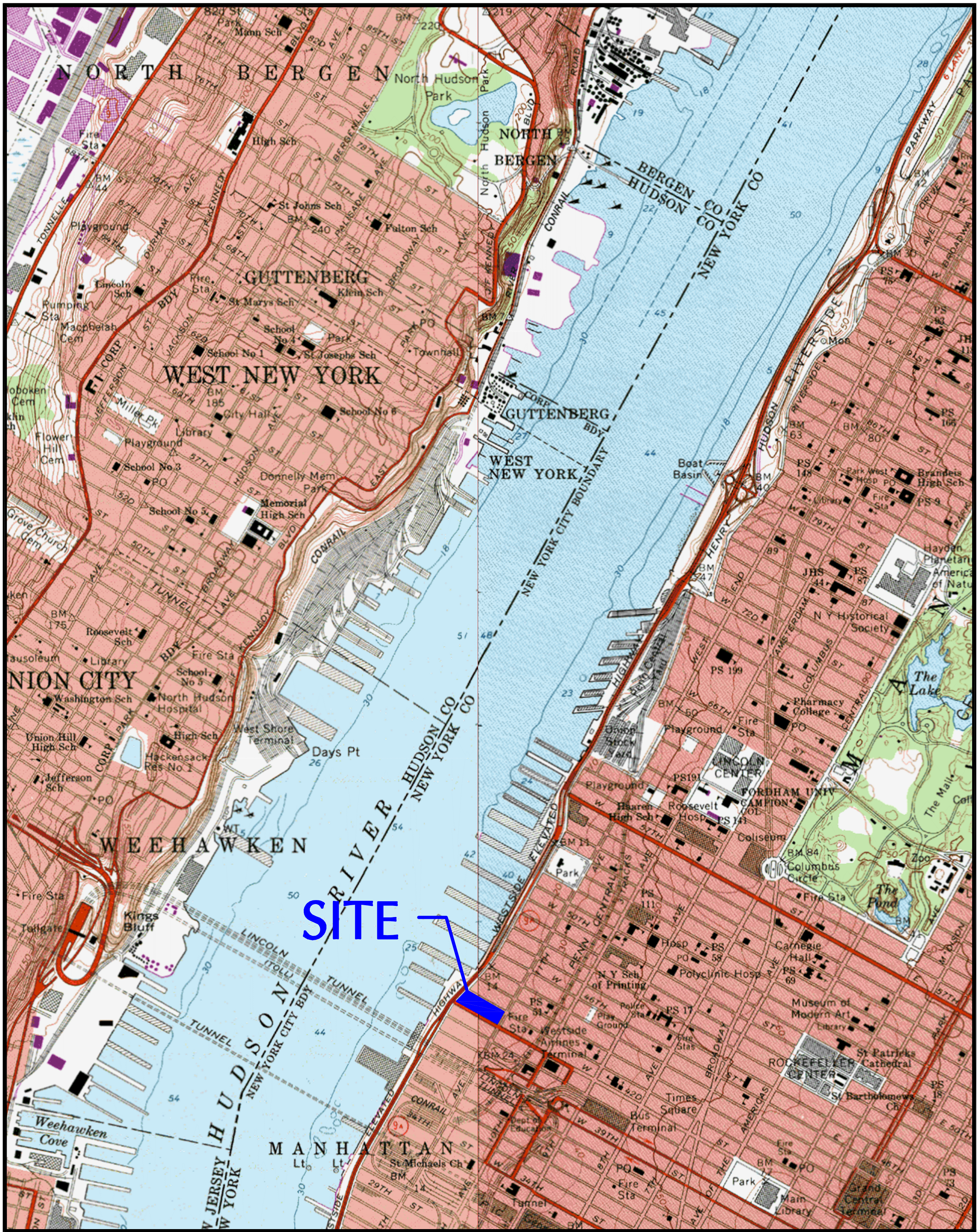
Joel B. Landes, P.E.
Senior Associate

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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NEW JERSEY PENNSYLVANIA NEW YORK CONNECTICUT FLORIDA NEVADA

NJ Certificate of Authorization No: 24GA27996400

Project

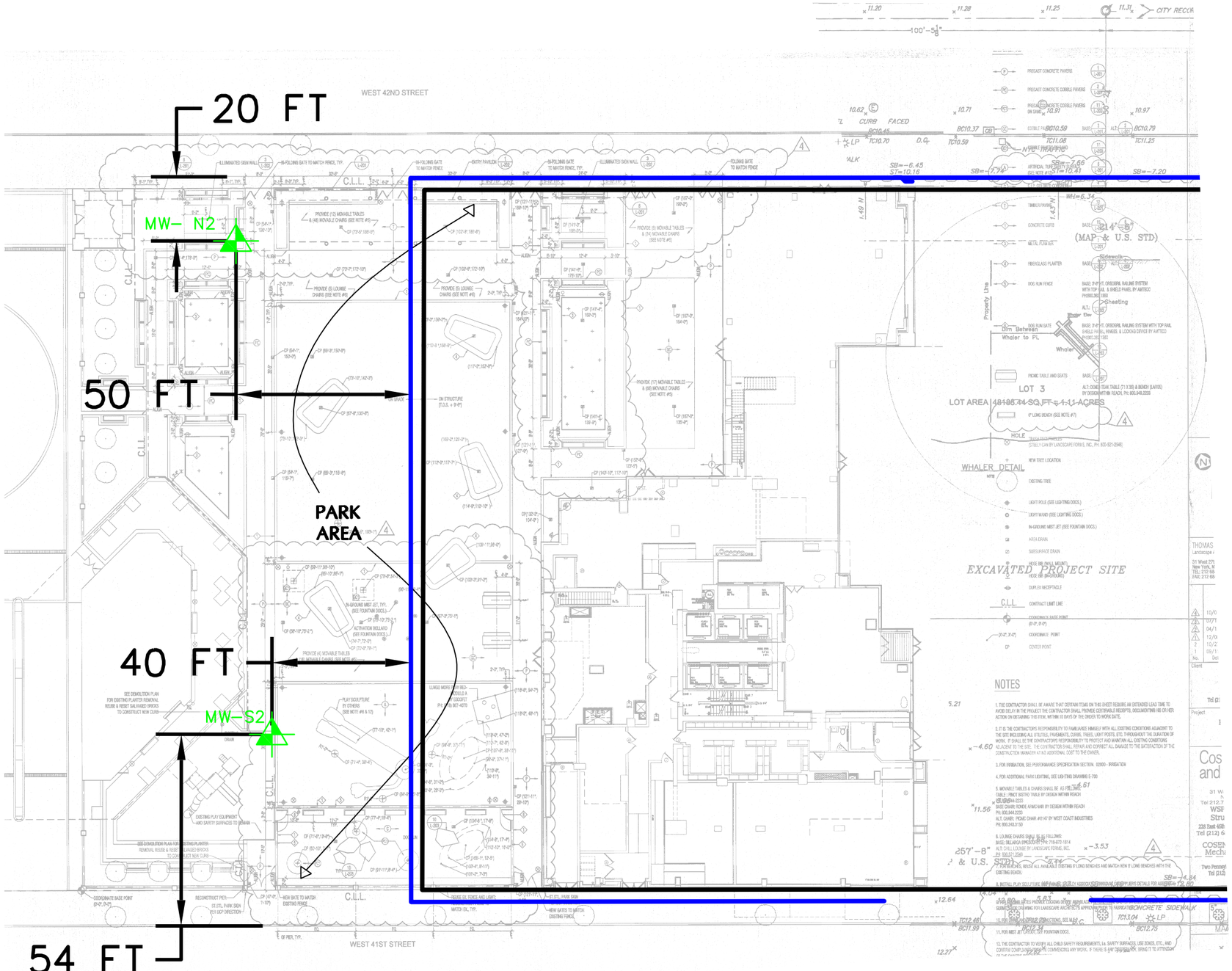
SITE LOCATION MAP

RIVER PLACE I AND II

NEW YORK NEW YORK

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

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)



NOTES:

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

2. MONITORING WELLS WERE RE-INSTALLED ON DECEMBER 28, 2009. LOCATIONS ARE APPROXIMATE.

LEGEND

MW– 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

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Project

MONITORING WELL LOCATION MAP

RIVER PLACE I & II

NEW YORK NEW YORK

Project No.	Date	Scale	Dwg. No.
170040901	01/21/2010	1" = 30'	2

TABLES

Table 1
VOC Exceedances in Groundwater Samples
River Place II
New York, New York
Langan Project No. 170040901

		Park Area Northern Well												Park Area Southern Well*											
		1st Quarter 2009		2nd Quarter 2009		3rd Quarter 2009*		4th Quarter 2009**		1st Quarter 2010		2nd Quarter 2010		1st Quarter 2009		1st Quarter 2009		2nd Quarter 2009		4th Quarter 2009**		1st Quarter 2010		2nd Quarter 2010	
SAMPLING DATE	**NYSDEC**	**3/16/2009**		**6/17/2009**		**9/18/2009**		**1/7/2010**		**3/1/2010**		**6/10/2010**		**3/16/2009**		**3/16/2009**		**6/17/2009**		**1/7/2010**		**3/1/2010**		**6/10/2010**	
LANGAN SAMPLE ID	**TOGS 1.1.1**	**MW-N-3-16-09**		**MW-N-6-17-09**		**MW-N-9-18-09**		**MW-N2-1-07-10**		**MW-N2-3-01-10**		**MW-N2-6-10-10**		**MW-S-3-16-09**		**DUP-3-16-09**		**MW-S-6-17-09**		**MW-S2-1-07-10**		**MW-S2-3-01-10**		**MW-S2-6-10-10**	
LAB SAMPLE ID	**AWQS**	**L0903143-01**		**L0908040-01**		**L0913185-01**		**L1000282-01**		**L1003006-01**		**L1008735-02**		**L0903143-02**		**L0903143-03**		**L0908040-02**		**L1000282-02**		**L1003006-02**		**L1008735-01**	
Volatile Organics by GC/MS (µg/L) **Westborough Lab**																Duplicate of MW-N-3-16-09									
1,2,4-Trimethylbenzene	5	1200	U, D^{500}	1200	U, D^{500}	1200	U, D^{500}	1200	U	250	U, D^{100}	500	U, D^{200}	**76**	D^{25}	1200	U, D^{500}	25	U, D^{10}	**280**	D^{10}	**130**	D^{50}	**180**	D^{50}
1,3,5-Trimethylbenzene	5	1200	U, D^{500}	1200	U, D^{500}	1200	U, D^{500}	1200	U	250	U, D^{100}	500	U, D^{200}	62	U, D^{25}	1200	U, D^{500}	25	U, D^{10}	**61**	D^{10}	120	U, D^{50}	120	U, D^{50}
Benzene	1	**19000**	D^{500}	**17000**	D^{500}	**15000**	D^{500}	**2900**	D^{500}	**610**	D^{100}	**1100**		**140**	D^{25}	**19000**	D^{500}	**170**	D^{10}	**200**	D^{10}	**75**	D^{50}	**120**	D^{50}
Ethylbenzene	5	**1900**	D^{500}	**1900**	D^{500}	**1800**	D^{500}	**1400**	D^{500}	**170**	D^{100}	**410**		**160**	D^{25}	**1900**	D^{500}	**20**	D^{10}	**710**	D^{10}	**330**	D^{50}	**590**	D^{50}
Isopropylbenzene	5	250	U, D^{500}	250	U, D^{500}	250	U, D^{500}	250	U	50	U, D^{100}	100	U, D^{200}	**35**	D^{25}	250	U, D^{500}	**5.4**	D^{10}	**64**	D^{10}	**30**	D^{50}	**61**	D^{50}
Methylene chloride	5	2500	U, D^{500}	2500	U, D^{500}	2500	U	2500	U	500	U, D^{100}	1000	U, D^{200}	120	U, D^{25}	2500	U, D^{500}	50	U, D^{10}	**420**	D^{10}	250	U, D^{50}	250	U, D^{50}
Naphthalene	10	**15000**	D^{500}	**18000**	D^{500}	**19000**	D^{500}	**22000**	D^{500}	**4200**	D^{100}	**5400**		**610**	D^{25}	**15000**	D^{500}	**350**	D^{10}	**4900**	D^{10}	**1800**	D^{50}	**1700**	D^{50}
n-Butylbenzene	5	250	U, D^{500}	250	U, D^{500}	250	U	250	U	50	U, D^{100}	100	U, D^{200}	12	U, D^{25}	250	U, D^{500}	5	U, D^{10}	**6.2**	D^{10}	25	U, D^{50}	25	U, D^{50}
o-Xylene	5	**1400**	D^{500}	**1400**	D^{500}	**1200**	D^{500}	**1000**	D^{500}	**180**	D^{100}	**330**		**43**	D^{25}	**1300**	D^{500}	**16**	D^{10}	**320**	D^{10}	**110**	D^{50}	**150**	D^{50}
p/m-Xylene	5	**3200**	D^{500}	**3100**	D^{500}	**2900**	D^{500}	**2200**	D^{500}	**330**	D^{100}	**600**		**50**	D^{25}	**3100**	D^{500}	**21**	D^{10}	**410**	D^{10}	**150**	D^{50}	**150**	D^{50}
p-Isopropyltoluene	5	250	U, D^{500}	250	U, D^{500}	250	U	250	U	50	U, D^{100}	100	U, D^{200}	12	U, D^{25}	250	U, D^{500}	5	U, D^{10}	**11**	D^{10}	25	U, D^{50}	25	U, D^{50}
Styrene	5	500	U, D^{500}	500	U, D^{500}	500	U	500	U	100	U, D^{100}	200	U, D^{200}	25	U, D^{25}	500	U, D^{500}	10	U, D^{10}	**40**		50	U, D^{50}	50	U, D^{50}
Toluene	5	**4200**	D^{500}	**4400**	D^{500}	**4100**	D^{500}	**740**	D^{500}	75	U, D^{100}	150	U, D^{200}	19	U, D^{25}	**4000**	D^{500}	**29**	D^{10}	**180**	D^{10}	**46**	D^{50}	38	U, D^{50}

Notes:

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

* Monitoring well MW-S was destroyed during construction activities. No data is available for the 3rd Quarter 2009.

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

Qualifiers:
U - Indicates the minimum detection Limit (MDL) is reported. The concentration of the analyte is less than the MDL.
D^{x} - Dillution factor of X

Table 1
VOC Exceedances in Groundwater Samples
River Place II
New York, New York
Langan Project No. 170040901

		Quality Control											
		1st Quarter 2009		1st Quarter 2009		2nd Quarter 2009		3rd Quarter 2009		4th Quarter 2009		1st Quarter 2010		2nd Quarter 2010	
SAMPLING DATE	**NYSDEC**	**3/16/2009**		**3/16/2009**		**6/17/2009**		**6/17/2009**		**1/7/2010**		**3/1/2010**		**6/10/2010**	
LANGAN SAMPLE ID	**TOGS 1.1.1**	**FB-3-16-09**		**TRIP BLANK**		**TRIP BLANK**		**TRIP BLANK**		**TRIP BLANK**		**TRIP BLANK**		**TRIP BLANK**	
LAB SAMPLE ID	**AWQS**	**L0903143-04**		**L0903143-05**		**L0908040-03**		**L0913185-02**		**L1000282-03**		**L1003006-03**		**L1008735-03**	
Volatile Organics by GC/MS (µg/L) Westborough Lab															
1,2,4-Trimethylbenzene	5	2.5	U	2.5	U	2.5	U	0.5	U	2.5	U	2.5	U	2.5	U
1,3,5-Trimethylbenzene	5	2.5	U	2.5	U	2.5	U	0.75	U	2.5	U	2.5	U	2.5	U
Benzene	1	0.5	U	0.5	U	0.5	U	2.5	U	0.5	U	0.5	U	0.5	U
Ethylbenzene	5	0.5	U	0.5	U	0.5	U	2.5	U	0.5	U	0.5	U	0.5	U
Isopropylbenzene	5	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U	0.5	U
Methylene chloride	5	5	U	5	U	5	U	0.5	U	5	U	5	U	5	U
Naphthalene	10	2.5	U	2.5	U	2.5	U	1	U	2.5	U	2.5	U	2.5	U
n-Butylbenzene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
o-Xylene	5	1	U	1	U	1	U	2	U	1	U	1	U	1	U
p/m-Xylene	5	1	U	1	U	1	U	0.5	U	1	U	1	U	1	U
p-Isopropyltoluene	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	5	0.75	U	0.75	U	0.75	U	2.5	U	0.75	U	0.75	U	0.75	U

Notes:

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

* Monitoring well MW-S was destroyed during constructicon activities. No data is available for the 3rd Quarter 2009.

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

Qualifiers:
U - Indicates the minimum detection Limit (MDL) is reporte
D^x - Dillution factor of X

Table 2
SVOC Exceedances in Groundwater Samples
River Place II
New York, New York
Langan Project No. 170040901

		Park Area Northern Well												Park Area Southern Well*										Quality Control	
		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter**		1st Quarter 2010		2nd Quarter 2010		1st Quarter		1st Quarter		2nd Quarter		4th Quarter**		1st Quarter 2010		2nd Quarter 2010		1st Quarter	
SAMPLING DATE	**NYSDEC**	**3/16/2009**		**6/17/2009**		**9/18/2009**		**1/7/2010**		**3/1/2010**		**6/10/2010**		**3/16/2009**		**3/16/2009**		**6/17/2009**		**1/7/2010**		**3/1/2010**		**6/10/2010**		**3/16/2009**	
LANGAN SAMPLE ID	**TOGS 1.1.1**	**MW-N-3-16-09**		**MW-N-6-17-09**		**MW-N-9-18-09**		**MW-N2-1-7-10**		**MW-N2-3-1-10**		**MW-N2-6-10-10**		**MW-S-3-16-09**		**DUP-3-16-09**		**MW-S-6-17-09**		**MW-S2-1-7-10**		**MW-S2-3-1-10**		**MW-S2-6-10-10**		**FB-3-16-09**	
LAB SAMPLE ID	**AWQS**	**L0903143-01**		**L0908040-01**		**L0913185-01**		**L1000282-01**		**L1003006-01**		**L1008735-02**		**L0903143-02**		**L0903143-03**		**L0908040-02**		**L0908040-02**		**L1003006-02**		**L1008735-01**		**L0903143-04**	
Semi-Volatile Organics (µg/L) **Westborough Lab**																Duplicate of MW-N-3-16-09											
2,4-Dimethylphenol	50	**1800**	D^{50}	**830**	D^{5}	**1200**	D^{100}	**270**	D^{5}	500	U, D^{50}	29		10	U	**1800**	D^{25}	10	U	10	U	500	U, D^{50}	10	U	9.6	U
Acenaphthene	20	**120**	D^{20}	**95**	D^{40}	**99**	D^{50}	**61**	D^{200}	**65**	D^{50}	17		14		**160**	D^{200}	0.2	U	200	U, D^{1000}	**63**	D^{50}	7	U	0.19	U
Benzo(a)pyrene	0	**7.2**	D^{20}	8.2	U, D^{40}	9.6	U, D^{50}	40	U, D^{200}	10	U, D^{50}	5	U	0.2	U	39	U, D^{5}	0.2	U	200	U, D^{1000}	15	D^{50}	5	U	0.19	U
Benzo(b)fluoranthene	0.002	**8.4**	D^{20}	8.2	U, D^{40}	9.6	U, D^{50}	40	U, D^{200}	10	U, D^{50}	7.2	D^{20}	0.2	U	39	U, D^{5}	0.2	U	200	U, D^{1000}	**14**	D^{50}	**4**	D^{10}	0.19	U
Bis(2-Ethylhexyl)phthalate	5	24	U, D^{5}	26	U, D^{5}	**46**	D^{5}	25	U, D^{5}	250	U, D^{50}	5	U	5	U	24	U, D^{5}	5.1	U	5	U	250	U, D^{50}	5	U	4.8	U
Chrysene	0.002	**4.1**	D^{20}	8.2	U, D^{40}	9.6	U, D^{50}	40	U, D^{200}	10	U, D^{50}	**4200**	R1, D^{400}	0.2	U	39	U, D^{5}	0.2	U	200	U, D^{1000}	10	U, D^{50}	**1600**	D^{100}	0.19	U
Fluorene	50	**56**	D^{20}	**59**	D^{40}	47	D^{50}	40	U, D^{200}	39	D^{50}	7.2	D^{20}	8.9		**80**	D^{5}	0.2	U	200	U, D^{1000}	**61**	D^{50}	4	D^{10}	0.19	U
Naphthalene	10	**12000**	D^{400}	**8900**	D^{400}	**9400**	D^{1000}	**2200**	D^{200}	**2700**	D^{50}	8.9	D^{20}	**300**	D^{10}	**14000**	D^{400}	0.62		**11000**	D^{1000}	**1400**	D^{100}	4.8	D^{10}	0.34	
Phenanthrene	50	**100**	D^{20}	**53**	D^{40}	**62**	D^{50}	40	D^{200}	**52**	D^{50}	**84**	D^{20}	11		**150**	D^{5}	0.2	U	200	U, D^{1000}	**120**	D^{50}	74	D^{10}	0.19	U
Phenol	1	**120**	D^{5}	**61**	D^{5}	**87**	D^{5}	35	U, D^{5}	350	U, D^{50}	**17**		7	U	**110**	D^{5}	7.2	U	**7.7**		350	U, D^{50}	7	U	6.7	U

Notes:

- Groundwater samples were compared to New York State Department of Environmental Conservation Technical and Operations Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards (AWQS)
- NYSDEC TOGS exceedances are highlighted and BOLD
- Method Detection Limits (MDLs) exceeding NYSDEC TOGS 1.1.1 AWQS are likely the result of elevated analyte concentrations.
- A select subset of VOCs were run twice, once by Gas Chromatography/Mass Spectrometry (GC/MS) and once by Selected Ion Monitoring (SIM) analysis, per standard laboratory practice. For these select compounds, the SIM results are reported.
- ug/L: Micrograms per Liter

* Monitoring well MW-S was destroyed during construction activities. No data is available for the 3rd Quarter 2009.

** Monitoring wells MW-N and MW-S were destroyed due to construction activities. Monitoring wells MW-N2 and MW-S2 were installed in the approximate locations of MW-N and MW-S once construction was complete. New monitoring well locations are shown of Figure 2.

Qualifiers:
U - Indicates the minimum detection Limit (MDL) is reported. The concentration of the analyte is less than the MDL.
D^{x} - Dillution factor of X

Table 3
Total Metals and Cyanide Exceedances in Groundwater Samples
River Place II
New York, New York
Langan Project No. 170040901

		Park Area Northern Well												Park Area Southern Well*												Quality Control	
		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter**		1st Quarter 2010		2nd Quarter 2010		1st Quarter		1st Quarter		2nd Quarter		4th Quarter**		1st Quarter 2010		2nd Quarter 2010		1st Quarter	
LANGAN SAMPLE ID	**NYSDEC**	**MW-N-3-16-09**		**MW-N-6-17-09**		**MW-N-9/18/09**		**MW-N2-1-7-2010**		**MW-N2-3-1-2010**		**MW-N2-6-10-10**		**MW-S-3-16-09**		**DUP-3-16-09**		**MW-S-6-17-09**		**MW-S2-1-7-2010**		**MW-N2-3-1-2010**		**6/10/2010**		**FB-3-16-09**	
SAMPLING DATE	**TOGS 1.1.1**	**3/16/2009**		**6/17/2009**		**9/18/2009**		**1/7/2010**		**3/1/2010**		**6/10/2010**		**3/16/2009**		**3/16/2009**		**6/17/2009**		**1/7/2010**		**3/1/2010**		**MW-S2-6-10-10**		**3/16/2009**	
LAB SAMPLE ID	**AWQS**	**L0903143-01**		**L0908040-01**		**L0913185-01**		**L1000282-01**		**L1000282-01**		**L1008735-02**		**L0903143-02**		**L0903143-03**		**L0908040-02**		**L1000282-02**		**L1000282-01**		**L1008735-01**		**L0903143-04**	
Total Metals (µg/L) Wesborough Lab																Duplicate of MW-N-3-16-09											
Iron, Total	300	**5300**		**1900**		**1200**		**3500**		**4000**		**4800**		**21000**		**2700**		**9200**		**3200**		**11000**		**5000**		50	U
Lead, Total	25	15		10	U	10	U	10	U	10	U	10	U	**158**		10	U	**45**		17		**117**		**29**		10	U
Magnesium, Total	35000	**70000**		**70000**		**59000**		**83000**		**46000**		**46000**		**71000**		**72000**		**48000**		**120000**		**87000**		**85000**		100	U
Manganese, Total	300	**1570**		**1570**		**1340**		**746**		**603**		**632**		**598**		**1430**		**403**		**327**		**636**		**430**		10	U
Sodium, Total	20000	**300000**	D^{5}	**270000**		**250000**		**240000**		**110000**		**160000**		**96000**		**320000**	D^{5}	**100000**		**98000**		**89000**		**68000**		2000	U
Cyanide (ug/L) - Wesborough Lab																											
Cyanide, Total	200	**1100**	D^{10}	**789**	D^{5}	**799**	D^{5}	**890**	D^{10}	**1780**	D^{10}	**1500**	D^{5}	**1920**	D^{10}	**1090**	D^{10}	**1920**	D^{5}	**1090**	D^{10}	**973**	D^{5}	**1110**	D^{5}	5	U, D^{5}

Notes:
- Groundwater samples were compared to New York State Department of Environmental Conservation (NYSDEC) Technical and Operations Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards (AWQS).
- Values exceeding NYSDEC TOGS 1.1.1 AWQS are highlighted and **BOLD**.
- Method Detection Limits (MDLs) exceeding NYSDEC TOGS 1.1.1 AWQS are likely the result of elevated analyte concentrations.
- µg/L: Micrograms per liter

* Monitoring well MW-S was destroyed during construction activities. No data is available for the 3rd Quarter 2009.

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

Qualifiers:

U - Indicates the minimum detection Limit (MDL) is reported. The concentration of the 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: River Place	**Well#/Location:**	MW-N2	**Job No.**	**170040901**	
Date: 6/10/10	**Weather:**	70s, Partly Cloudy	**Sampling Personnel:**	S. Flanagan	

Well Information

Sample ID	MW-N2-6-10-10
Well Depth (ft)	19.55
Screened Interval (ft)	15
Casing Elevation (msl)	-
Casing Diameter (in)	2
Depth to Water (ft)	9.1
Water Elevation (msl)	-
Casing Volume (gal)	1.70
PID/FID Reading (ppm)	-

Purging Information

Purging Method	Wattera Pump
Purging Rate (gpm)	0.1
Start Purge Time	11:45 AM
End Purge Time	12:45 PM
Volume Purged (gal)	6

Sampling Information

Sampling Method	Wettera Pump
Start Sampling Time	12:45 PM
End Sampling Time	13:00 PM
Depth Before Sampling (ft)	9.24
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)**
11:47	9.41	2.48	202	4.00	14.62	-98	9.30	
11:57	9.05	2.56	76.2	3.25	17.31	-84		1
12:07	9.26	2.80	25.7	4.08	15.58	-92		
12:15	9.39	2.84	12.5	2.17	15.54	-99		2.5
12:20	9.52	2.84	4.1	1.51	15.33	-106		
12:25	9.70	2.83	2.6	1.08	15.37	-117		4
12:30	9.80	2.80	2.3	0.84	15.22	-123	9.26	
12:35	9.67	2.70	13.0	3.01	15.47	-114		
12:40	9.69	2.69	13.2	1.22	15.62	-119		
12:45	9.43	2.61	16.1	1.23	15.70	-109	9.24	6

Notes/Remarks

Monitoring well was purged from 11:45 AM until 12:45 PM. The sample was collected at 13:00.

GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: River Place	**Well#/Location:** MW-S2	**Job No.** **170040901**
Date:6/10/10	**Weather:** 70s, Partly Cloudy	**Sampling Personnel:** S. Flanagan

Well Information

Sample ID	MW-S2-6-10-10
Well Depth (ft)	19.1
Screened Interval (ft)	15
Casing Elevation (msl)	-
Casing Diameter (in)	2
Depth to Water (ft)	8.89
Water Elevation (msl)	-
Casing Volume (gal)	1.66
PID/FID Reading (ppm)	-

Purging Information

Purging Method	Wattera Pump
Purging Rate (gpm)	0.1
Start Purge Time	9:05 AM
End Purge Time	11:10 AM
Volume Purged (gal)	13

Sampling Information

Sampling Method	Wettera Pump
Start Sampling Time	11:10 AM
End Sampling Time	11:22 AM
Depth Before Sampling (ft)	10.58
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)**
9:08	9.87	1.96	-50	0.65	14.28	-146	8.89	
9:17	10.17	2.17	602	1.27	14.55	-146		3
9:23	10.36	2.17	260	0.32	15.09	-157	10.6	4
9:30	10.54	2.17	304	0.20	15.00	-166		
9:36	10.60	2.16	283	0.13	15.03	-168		
9:42	9.98	2.16	249	4.31	15.44	-99		5
9:52	9.94	2.12	173	3.04	15.18	-140		
10:00	10.39	2.11	152	0.25	15.07	-159		
10:05	10.68	2.10	119	0.15	15.14	-175		
10:13	11.04	2.07	108	0.10	15.15	-196	10.45	7
10:18	11.20	2.06	102	0.06	15.16	-204		
10:23	11.30	2.05	110	0.03	15.23	-211		
10:28	11.49	2.04	127	0.03	15.15	-222		9
10:35	11.74	2.03	125	0.03	15.21	-236		
10:43	11.83	2.03	117	0.27	15.18	-243		
10:50	12.01	2.02	142	0.01	15.29	-257	10.58	12
10:55	12.27	2.01	118	0.01	15.29	-268		
11:00	12.31	2.00	117	0.06	15.29	-271		
11:05	12.34	1.99	110	0.00	15.35	-275		
11:10	12.33	1.98	114	0.03	15.37	-276	10.58	13

Notes/Remarks

* After two hours of purging the monitoring well the turbidity did not drop below 50 NTU's. The sample was collect at 11:15 AM

Slight Sheen was observed in purge water.

ATTACHMENT B

ANALYTICAL REPORT

Lab Number:	L1008735
Client:	Langan Engineering and Environmental Ser 21 Penn Plaza 360 W. 31st Street 8th Floor New York, NY 10001-2727
ATTN:	Jason Hayes
Phone:	(212) 479-5427
Project Name:	RIVER PLACE
Project Number:	170040901
Report Date:	06/17/10

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
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1008735-01	MW-S2-6-10-10	W. 42ND ST., NY, NY	06/10/10 11:15
L1008735-02	MW-N2-6-10-10	W. 42ND ST., NY, NY	06/10/10 13:00
L1008735-03	TB-6-10-10	W. 42ND ST., NY, NY	06/10/10 00:00

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

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.

Volatile Organics

L1008735-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

Semivolatile Organics by SIM

L1008735-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

L1008735-01 and -02 were re-analyzed on dilutions in order to quantitate the samples within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

The surrogate recoveries for L1008735-02 are below the acceptance criteria for 2-Fluorophenol, Phenol-d6,

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Case Narrative (continued)

Nitrobenzene-d5, 2-Fluorobiphenyl, 2,4,6-Tribromophenol, and 4-Terphenyl-d14 (all at 0%) due to the dilution required to quantitate the sample. Re-extraction is not required; therefore, the results of the original analysis are reported.

Cyanide, Total

L1008735-01 and -02 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

The WG417454-3/-4 MS/MSD recoveries (220%/190%), performed on L1008735-02, are invalid because the sample concentration is greater than four times the spike amount added.

Cyanide, Physiologically Available

L1008735-01 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: 06/17/10

ORGANICS

VOLATILES

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-01 D
Client ID: MW-S2-6-10-10
Sample Location: W. 42ND ST., NY, NY
Matrix: Water
Analytical Method: 1,8260B
Analytical Date: 06/17/10 12:22
Analyst: PD

Date Collected: 06/10/10 11:15
Date Received: 06/10/10
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	590		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 **Lab Number:** L1008735

Project Number: 170040901 **Report Date:** 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-01 D Date Collected: 06/10/10 11:15

Client ID: MW-S2-6-10-10 Date Received: 06/10/10

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	150		ug/l	50	--	50
o-Xylene	150		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	61		ug/l	25	--	50
p-Isopropyltoluene	ND		ug/l	25	--	50
Naphthalene	1700		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	180		ug/l	120	--	50

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-01 D
Client ID: MW-S2-6-10-10
Sample Location: W. 42ND ST., NY, NY
Date Collected: 06/10/10 11:15
Date Received: 06/10/10
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	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	109		70-130

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-02 D
Client ID: MW-N2-6-10-10
Sample Location: W. 42ND ST., NY, NY
Matrix: Water
Analytical Method: 1,8260B
Analytical Date: 06/17/10 12:57
Analyst: PD

Date Collected: 06/10/10 13:00
Date Received: 06/10/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1000	--	200
1,1-Dichloroethane	ND		ug/l	150	--	200
Chloroform	ND		ug/l	150	--	200
Carbon tetrachloride	ND		ug/l	100	--	200
1,2-Dichloropropane	ND		ug/l	350	--	200
Dibromochloromethane	ND		ug/l	100	--	200
1,1,2-Trichloroethane	ND		ug/l	150	--	200
Tetrachloroethene	ND		ug/l	100	--	200
Chlorobenzene	ND		ug/l	100	--	200
Trichlorofluoromethane	ND		ug/l	500	--	200
1,2-Dichloroethane	ND		ug/l	100	--	200
1,1,1-Trichloroethane	ND		ug/l	100	--	200
Bromodichloromethane	ND		ug/l	100	--	200
trans-1,3-Dichloropropene	ND		ug/l	100	--	200
cis-1,3-Dichloropropene	ND		ug/l	100	--	200
1,1-Dichloropropene	ND		ug/l	500	--	200
Bromoform	ND		ug/l	400	--	200
1,1,2,2-Tetrachloroethane	ND		ug/l	100	--	200
Benzene	1100		ug/l	100	--	200
Toluene	ND		ug/l	150	--	200
Ethylbenzene	410		ug/l	100	--	200
Chloromethane	ND		ug/l	500	--	200
Bromomethane	ND		ug/l	200	--	200
Vinyl chloride	ND		ug/l	200	--	200
Chloroethane	ND		ug/l	200	--	200
1,1-Dichloroethene	ND		ug/l	100	--	200
trans-1,2-Dichloroethene	ND		ug/l	150	--	200
Trichloroethene	ND		ug/l	100	--	200
1,2-Dichlorobenzene	ND		ug/l	500	--	200
1,3-Dichlorobenzene	ND		ug/l	500	--	200

Project Name: RIVER PLACE **Lab Number:** L1008735

Project Number: 170040901 **Report Date:** 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-02 D Date Collected: 06/10/10 13:00

Client ID: MW-N2-6-10-10 Date Received: 06/10/10

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	500	--	200
Methyl tert butyl ether	ND		ug/l	200	--	200
p/m-Xylene	600		ug/l	200	--	200
o-Xylene	330		ug/l	200	--	200
cis-1,2-Dichloroethene	ND		ug/l	100	--	200
Dibromomethane	ND		ug/l	1000	--	200
1,2,3-Trichloropropane	ND		ug/l	1000	--	200
Acrylonitrile	ND		ug/l	1000	--	200
Styrene	ND		ug/l	200	--	200
Dichlorodifluoromethane	ND		ug/l	1000	--	200
Acetone	ND		ug/l	1000	--	200
Carbon disulfide	ND		ug/l	1000	--	200
2-Butanone	ND		ug/l	1000	--	200
Vinyl acetate	ND		ug/l	1000	--	200
4-Methyl-2-pentanone	ND		ug/l	1000	--	200
2-Hexanone	ND		ug/l	1000	--	200
Bromochloromethane	ND		ug/l	500	--	200
2,2-Dichloropropane	ND		ug/l	500	--	200
1,2-Dibromoethane	ND		ug/l	400	--	200
1,3-Dichloropropane	ND		ug/l	500	--	200
1,1,1,2-Tetrachloroethane	ND		ug/l	100	--	200
Bromobenzene	ND		ug/l	500	--	200
n-Butylbenzene	ND		ug/l	100	--	200
sec-Butylbenzene	ND		ug/l	100	--	200
tert-Butylbenzene	ND		ug/l	500	--	200
o-Chlorotoluene	ND		ug/l	500	--	200
p-Chlorotoluene	ND		ug/l	500	--	200
1,2-Dibromo-3-chloropropane	ND		ug/l	500	--	200
Hexachlorobutadiene	ND		ug/l	120	--	200
Isopropylbenzene	ND		ug/l	100	--	200
p-Isopropyltoluene	ND		ug/l	100	--	200
Naphthalene	5400		ug/l	500	--	200
n-Propylbenzene	ND		ug/l	100	--	200
1,2,3-Trichlorobenzene	ND		ug/l	500	--	200
1,2,4-Trichlorobenzene	ND		ug/l	500	--	200
1,3,5-Trimethylbenzene	ND		ug/l	500	--	200
1,2,4-Trimethylbenzene	ND		ug/l	500	--	200

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-02 D
Client ID: MW-N2-6-10-10
Sample Location: W. 42ND ST., NY, NY
Date Collected: 06/10/10 13:00
Date Received: 06/10/10
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	400	--	200
4-Ethyltoluene	ND		ug/l	400	--	200
1,2,4,5-Tetramethylbenzene	ND		ug/l	400	--	200
Ethyl ether	ND		ug/l	500	--	200
trans-1,4-Dichloro-2-butene	ND		ug/l	500	--	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-03
Client ID: TB-6-10-10
Sample Location: W. 42ND ST., NY, NY
Matrix: Water
Analytical Method: 1,8260B
Analytical Date: 06/16/10 17:54
Analyst: PD

Date Collected: 06/10/10 00:00
Date Received: 06/10/10
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
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-03
Client ID: TB-6-10-10
Sample Location: W. 42ND ST., NY, NY
Date Collected: 06/10/10 00:00
Date Received: 06/10/10
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
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-03
Client ID: TB-6-10-10
Sample Location: W. 42ND ST., NY, NY
Date Collected: 06/10/10 00:00
Date Received: 06/10/10
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	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 06/16/10 09:17
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG418430-3					
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
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 06/16/10 09:17
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG418430-3					
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
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 06/16/10 09:17
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG418430-3					
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	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	106		70-130

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 06/17/10 11:48
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG418459-3					
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
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 06/17/10 11:48
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG418459-3					
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
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 06/17/10 11:48
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG418459-3					
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	113		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE

Project Number: 170040901

Lab Number: L1008735

Report Date: 06/17/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG418430-1 WG418430-2								
Chlorobenzene	102		99		75-130	3		20
Benzene	102		100		76-127	2		20
Toluene	100		98		76-125	2		20
1,1-Dichloroethene	104		99		61-145	5		20
Trichloroethene	103		104		71-120	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	113		112		70-130
Toluene-d8	104		99		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	112		113		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE

Project Number: 170040901

Lab Number: L1008735

Report Date: 06/17/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG418459-1 WG418459-2								
Chlorobenzene	95		94		75-130	1		20
Benzene	97		96		76-127	1		20
Toluene	96		94		76-125	2		20
1,1-Dichloroethene	97		93		61-145	4		20
Trichloroethene	99		100		71-120	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		111		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	114		113		70-130

SEMIVOLATILES

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID:	L1008735-01	Date Collected:	06/10/10 11:15
Client ID:	MW-S2-6-10-10	Date Received:	06/10/10
Sample Location:	W. 42ND ST., NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	06/14/10 11:06
Analytical Date:	06/17/10 13:58		
Analyst:	PS		

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	46		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	28		ug/l	5.0	--	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	--	1

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-01
Client ID: MW-S2-6-10-10
Sample Location: W. 42ND ST., NY, NY
Date Collected: 06/10/10 11:15
Date Received: 06/10/10
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	56		ug/l	5.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	83		33-120

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID:	L1008735-01	D2	Date Collected:	06/10/10 11:15
Client ID:	MW-S2-6-10-10		Date Received:	06/10/10
Sample Location:	W. 42ND ST., NY, NY		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	1,8270C		Extraction Date:	06/14/10 11:07
Analytical Date:	06/16/10 17:58			
Analyst:	HL			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Naphthalene	1600		ug/l	20	--	100

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID:	L1008735-01 D	Date Collected:	06/10/10 11:15
Client ID:	MW-S2-6-10-10	Date Received:	06/10/10
Sample Location:	W. 42ND ST., NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	06/14/10 11:07
Analytical Date:	06/16/10 15:16		
Analyst:	HL		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	59		ug/l	2.0	--	10
2-Chloronaphthalene	ND		ug/l	2.0	--	10
Fluoranthene	15		ug/l	2.0	--	10
Hexachlorobutadiene	ND		ug/l	5.0	--	10
Naphthalene	1300	E	ug/l	2.0	--	10
Benzo(a)anthracene	4.4		ug/l	2.0	--	10
Benzo(a)pyrene	4.8		ug/l	2.0	--	10
Benzo(b)fluoranthene	3.4		ug/l	2.0	--	10
Benzo(k)fluoranthene	ND		ug/l	2.0	--	10
Chrysene	4.0		ug/l	2.0	--	10
Acenaphthylene	10		ug/l	2.0	--	10
Anthracene	14		ug/l	2.0	--	10
Benzo(ghi)perylene	2.1		ug/l	2.0	--	10
Fluorene	53		ug/l	2.0	--	10
Phenanthrene	74		ug/l	2.0	--	10
Dibenzo(a,h)anthracene	ND		ug/l	2.0	--	10
Indeno(1,2,3-cd)Pyrene	ND		ug/l	2.0	--	10
Pyrene	20		ug/l	2.0	--	10
2-Methylnaphthalene	110		ug/l	2.0	--	10
Pentachlorophenol	ND		ug/l	8.0	--	10
Hexachlorobenzene	ND		ug/l	8.0	--	10
Hexachloroethane	ND		ug/l	8.0	--	10

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-01 D
Client ID: MW-S2-6-10-10
Sample Location: W. 42ND ST., NY, NY
Date Collected: 06/10/10 11:15
Date Received: 06/10/10
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	36		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	100		10-120
4-Terphenyl-d14	84		33-120

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID:	L1008735-02	Date Collected:	06/10/10 13:00
Client ID:	MW-N2-6-10-10	Date Received:	06/10/10
Sample Location:	W. 42ND ST., NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	06/14/10 11:06
Analytical Date:	06/17/10 14:22		
Analyst:	PS		

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	30		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	60		ug/l	5.0	--	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	--	1

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-02
Client ID: MW-N2-6-10-10
Sample Location: W. 42ND ST., NY, NY
Date Collected: 06/10/10 13:00
Date Received: 06/10/10
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	29		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	17		ug/l	7.0	--	1
2-Methylphenol	51		ug/l	6.0	--	1
3-Methylphenol/4-Methylphenol	28		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	89		ug/l	5.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	80		33-120

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID:	L1008735-02	D2	Date Collected:	06/10/10 13:00
Client ID:	MW-N2-6-10-10		Date Received:	06/10/10
Sample Location:	W. 42ND ST., NY, NY		Field Prep:	Not Specified
Matrix:	Water		Extraction Method:	EPA 3510C
Analytical Method:	1,8270C		Extraction Date:	06/14/10 11:07
Analytical Date:	06/16/10 18:30			
Analyst:	HL			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Naphthalene	4200		ug/l	80	--	400

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID:	L1008735-02 D	Date Collected:	06/10/10 13:00
Client ID:	MW-N2-6-10-10	Date Received:	06/10/10
Sample Location:	W. 42ND ST., NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	06/14/10 11:07
Analytical Date:	06/16/10 15:45		
Analyst:	HL		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	93		ug/l	4.0	--	20
2-Chloronaphthalene	ND		ug/l	4.0	--	20
Fluoranthene	34		ug/l	4.0	--	20
Hexachlorobutadiene	ND		ug/l	10	--	20
Naphthalene	3300	E	ug/l	4.0	--	20
Benzo(a)anthracene	9.2		ug/l	4.0	--	20
Benzo(a)pyrene	8.9		ug/l	4.0	--	20
Benzo(b)fluoranthene	9.2		ug/l	4.0	--	20
Benzo(k)fluoranthene	ND		ug/l	4.0	--	20
Chrysene	7.2		ug/l	4.0	--	20
Acenaphthylene	36		ug/l	4.0	--	20
Anthracene	19		ug/l	4.0	--	20
Benzo(ghi)perylene	4.1		ug/l	4.0	--	20
Fluorene	60		ug/l	4.0	--	20
Phenanthrene	84		ug/l	4.0	--	20
Dibenzo(a,h)anthracene	ND		ug/l	4.0	--	20
Indeno(1,2,3-cd)Pyrene	ND		ug/l	4.0	--	20
Pyrene	25		ug/l	4.0	--	20
2-Methylnaphthalene	200		ug/l	4.0	--	20
Pentachlorophenol	ND		ug/l	16	--	20
Hexachlorobenzene	ND		ug/l	16	--	20
Hexachloroethane	ND		ug/l	16	--	20

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-02 D
Client ID: MW-N2-6-10-10
Sample Location: W. 42ND ST., NY, NY
Date Collected: 06/10/10 13:00
Date Received: 06/10/10
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

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 06/15/10 17:21
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 06/14/10 11:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG417731-1					
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
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 06/15/10 17:21
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 06/14/10 11:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG417731-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	78		33-120

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 06/16/10 10:05
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 06/14/10 11:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG417732-1					
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--
Bis(2-chloroethyl)ether	ND		ug/l	5.0	--
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	--
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	--
Hexachlorocyclopentadiene	ND		ug/l	30	--
Isophorone	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	--
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	--
1,2,4,5-Tetrachlorobenzene	ND		ug/l	20	--
Acetophenone	ND		ug/l	20	--

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 06/16/10 10:05
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 06/14/10 11:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG417732-1					
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	--
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	41		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	76		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE

Project Number: 170040901

Lab Number: L1008735

Report Date: 06/17/10

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: WG417731-2 WG417731-3								
Acenaphthene	63		56		37-111	12		40
2-Chloronaphthalene	90		81		40-140	11		40
Fluoranthene	83		81		40-140	2		40
Anthracene	69		66		40-140	4		40
Pyrene	79		77		26-127	3		40
Pentachlorophenol	62		59		9-103	5		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	33		38		21-120
Phenol-d6	21		24		10-120
Nitrobenzene-d5	66		69		23-120
2-Fluorobiphenyl	58		59		15-120
2,4,6-Tribromophenol	76		79		10-120
4-Terphenyl-d14	77		80		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE

Project Number: 170040901

Lab Number: L1008735

Report Date: 06/17/10

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: WG417732-2 WG417732-3								
1,2,4-Trichlorobenzene	56		59		39-98	5		30
1,2-Dichlorobenzene	60		59		40-140	2		30
1,4-Dichlorobenzene	54		57		36-97	5		30
2,4-Dinitrotoluene	78		82		24-96	5		30
2,6-Dinitrotoluene	72		70		40-140	3		30
4-Chlorophenyl phenyl ether	72		81		40-140	12		30
n-Nitrosodi-n-propylamine	66		66		41-116	0		30
Butyl benzyl phthalate	77		74		40-140	4		30
P-Chloro-M-Cresol	74		75		23-97	1		30
2-Chlorophenol	64		65		27-123	2		30
2-Nitrophenol	69		68		30-130	1		30
4-Nitrophenol	40		41		10-80	2		30
2,4-Dinitrophenol	33		38		20-130	14		30
Phenol	26		26		12-110	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE

Project Number: 170040901

Lab Number: L1008735

Report Date: 06/17/10

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: WG417732-2 WG417732-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	37		39		21-120
Phenol-d6	23		25		10-120
Nitrobenzene-d5	62		68		23-120
2-Fluorobiphenyl	59		68		15-120
2,4,6-Tribromophenol	73		76		10-120
4-Terphenyl-d14	77		75		33-120

METALS

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-01
Client ID: MW-S2-6-10-10
Sample Location: W. 42ND ST., NY, NY
Matrix: Water
Date Collected: 06/10/10 11:15
Date Received: 06/10/10
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	1.6		mg/l	0.10	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Antimony, Total	ND		mg/l	0.0005	--	1	06/11/10 13:40	06/14/10 21:47	EPA 3005A	1,6020	BM
Arsenic, Total	0.010		mg/l	0.005	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Barium, Total	0.118		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Beryllium, Total	ND		mg/l	0.0005	--	1	06/11/10 13:40	06/14/10 21:47	EPA 3005A	1,6020	BM
Cadmium, Total	ND		mg/l	0.005	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Calcium, Total	240		mg/l	0.10	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Copper, Total	ND		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Iron, Total	5.0		mg/l	0.05	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Lead, Total	0.029		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Magnesium, Total	85		mg/l	0.10	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Manganese, Total	0.430		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Mercury, Total	0.0002		mg/l	0.0002	--	1	06/11/10 16:54	06/14/10 11:39	EPA 7470A	1,7470A	EZ
Nickel, Total	ND		mg/l	0.025	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Potassium, Total	21		mg/l	2.5	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Silver, Total	ND		mg/l	0.007	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Sodium, Total	68		mg/l	2.0	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Thallium, Total	ND		mg/l	0.0005	--	1	06/11/10 13:40	06/14/10 21:47	EPA 3005A	1,6020	BM
Vanadium, Total	ND		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI
Zinc, Total	ND		mg/l	0.050	--	1	06/12/10 12:00	06/15/10 15:12	EPA 3005A	1,6010B	AI

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-02
Client ID: MW-N2-6-10-10
Sample Location: W. 42ND ST., NY, NY
Matrix: Water
Date Collected: 06/10/10 13:00
Date Received: 06/10/10
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	0.70		mg/l	0.10	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Antimony, Total	0.0008		mg/l	0.0005	--	1	06/11/10 13:40	06/14/10 22:05	EPA 3005A	1,6020	BM
Arsenic, Total	0.005		mg/l	0.005	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Barium, Total	0.189		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Beryllium, Total	ND		mg/l	0.0005	--	1	06/11/10 13:40	06/14/10 22:05	EPA 3005A	1,6020	BM
Cadmium, Total	ND		mg/l	0.005	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Calcium, Total	230		mg/l	0.10	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Copper, Total	ND		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Iron, Total	4.8		mg/l	0.05	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Lead, Total	ND		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Magnesium, Total	46		mg/l	0.10	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Manganese, Total	0.632		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Mercury, Total	ND		mg/l	0.0002	--	1	06/11/10 16:54	06/14/10 11:45	EPA 7470A	1,7470A	EZ
Nickel, Total	ND		mg/l	0.025	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Potassium, Total	23		mg/l	2.5	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Silver, Total	ND		mg/l	0.007	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Sodium, Total	160		mg/l	2.0	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Thallium, Total	ND		mg/l	0.0005	--	1	06/11/10 13:40	06/14/10 22:05	EPA 3005A	1,6020	BM
Vanadium, Total	ND		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI
Zinc, Total	ND		mg/l	0.050	--	1	06/12/10 12:00	06/15/10 15:24	EPA 3005A	1,6010B	AI

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

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: WG417439-1										
Antimony, Total	ND		mg/l	0.0005	--	1	06/11/10 13:40	06/14/10 17:58	1,6020	BM
Beryllium, Total	ND		mg/l	0.0005	--	1	06/11/10 13:40	06/14/10 17:58	1,6020	BM
Thallium, Total	ND		mg/l	0.0005	--	1	06/11/10 13:40	06/14/10 17:58	1,6020	BM

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: WG417498-1										
Mercury, Total	ND		mg/l	0.0002	--	1	06/11/10 16:54	06/14/10 11:36	1,7470A	EZ

Prep Information

Digestion Method: EPA 7470A

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: WG417611-1										
Aluminum, Total	ND		mg/l	0.10	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Arsenic, Total	ND		mg/l	0.005	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Barium, Total	ND		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Cadmium, Total	ND		mg/l	0.005	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Calcium, Total	ND		mg/l	0.10	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Copper, Total	ND		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Iron, Total	ND		mg/l	0.05	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Lead, Total	ND		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Magnesium, Total	ND		mg/l	0.10	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Manganese, Total	ND		mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Nickel, Total	ND		mg/l	0.025	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Potassium, Total	ND		mg/l	2.5	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

Method Blank Analysis
Batch Quality Control

Selenium, Total	ND	mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Silver, Total	ND	mg/l	0.007	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Sodium, Total	ND	mg/l	2.0	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Vanadium, Total	ND	mg/l	0.010	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI
Zinc, Total	ND	mg/l	0.050	--	1	06/12/10 12:00	06/15/10 15:02	1,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE

Project Number: 170040901

Lab Number: L1008735

Report Date: 06/17/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG417439-2								
Antimony, Total	93		-		80-120	-		
Beryllium, Total	96		-		80-120	-		
Thallium, Total	92		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG417498-2								
Mercury, Total	110		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE

Project Number: 170040901

Lab Number: L1008735

Report Date: 06/17/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG417611-2					
Aluminum, Total	90	-	80-120	-	
Arsenic, Total	109	-	80-120	-	
Barium, Total	96	-	80-120	-	
Cadmium, Total	109	-	80-120	-	
Calcium, Total	94	-	80-120	-	
Chromium, Total	100	-	80-120	-	
Cobalt, Total	99	-	80-120	-	
Copper, Total	98	-	80-120	-	
Iron, Total	98	-	80-120	-	
Lead, Total	104	-	80-120	-	
Magnesium, Total	98	-	80-120	-	
Manganese, Total	96	-	80-120	-	
Nickel, Total	98	-	80-120	-	
Potassium, Total	100	-	80-120	-	
Selenium, Total	110	-	80-120	-	
Silver, Total	98	-	80-120	-	
Sodium, Total	99	-	80-120	-	
Vanadium, Total	101	-	80-120	-	
Zinc, Total	101	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

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: WG417439-4 QC Sample: L1008669-01 Client ID: MS Sample												
Antimony, Total	ND	0.5	0.5049	101		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.0511	102		-	-		80-120	-		20
Thallium, Total	ND	0.12	0.1189	99		-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG417498-4 QC Sample: L1008735-01 Client ID: MW-S2-6-10-10												
Mercury, Total	0.0002	0.001	0.0014	115		-	-		70-130	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

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: WG417611-4 QC Sample: L1008735-01 Client ID: MW-S2-6-10-10									
Aluminum, Total	1.6	2	3.6	100	-	-	75-125	-	20
Arsenic, Total	0.010	0.12	0.149	116	-	-	75-125	-	20
Barium, Total	0.118	2	2.06	97	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.055	107	-	-	75-125	-	20
Calcium, Total	240	10	250	100	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.20	100	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.487	97	-	-	75-125	-	20
Copper, Total	ND	0.25	0.265	106	-	-	75-125	-	20
Iron, Total	5.0	1	5.9	90	-	-	75-125	-	20
Lead, Total	0.029	0.51	0.540	100	-	-	75-125	-	20
Magnesium, Total	85	10	93	80	-	-	75-125	-	20
Manganese, Total	0.430	0.5	0.902	94	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.471	94	-	-	75-125	-	20
Potassium, Total	21	10	31	100	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.125	104	-	-	75-125	-	20
Silver, Total	ND	0.05	0.052	104	-	-	75-125	-	20
Sodium, Total	68	10	78	100	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.517	103	-	-	75-125	-	20
Zinc, Total	ND	0.5	0.504	101	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG417498-3 QC Sample: L1008735-01 Client ID: MW-S2-6-10-10						
Mercury, Total	0.0002	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG417611-3 QC Sample: L1008735-01 Client ID: MW-S2-6-10-10					
Aluminum, Total	1.6	1.6	mg/l	0	20
Arsenic, Total	0.010	0.010	mg/l	7	20
Barium, Total	0.118	0.117	mg/l	1	20
Cadmium, Total	ND	ND	mg/l	NC	20
Calcium, Total	240	240	mg/l	0	20
Chromium, Total	ND	ND	mg/l	NC	20
Cobalt, Total	ND	ND	mg/l	NC	20
Copper, Total	ND	ND	mg/l	NC	20
Iron, Total	5.0	5.0	mg/l	0	20
Lead, Total	0.029	0.030	mg/l	3	20
Magnesium, Total	85	85	mg/l	0	20
Manganese, Total	0.430	0.430	mg/l	0	20
Nickel, Total	ND	ND	mg/l	NC	20
Potassium, Total	21	21	mg/l	0	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	68	68	mg/l	0	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-01
Client ID: MW-S2-6-10-10
Sample Location: W. 42ND ST., NY, NY
Matrix: Water

Date Collected: 06/10/10 11:15
Date Received: 06/10/10
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	1.11		mg/l	0.025	--	5	06/11/10 14:15	06/14/10 16:37	1,9010B/9012A	JO
Cyanide, Physiologically Available	0.563		mg/l	0.010	--	2	06/14/10 10:00	06/14/10 14:09	64,9014(M)	JO

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

SAMPLE RESULTS

Lab ID: L1008735-02
Client ID: MW-N2-6-10-10
Sample Location: W. 42ND ST., NY, NY
Matrix: Water

Date Collected: 06/10/10 13:00
Date Received: 06/10/10
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	1.50		mg/l	0.025	--	5	06/11/10 14:15	06/14/10 16:38	1,9010B/9012A	JO
Cyanide, Physiologically Available	0.676		mg/l	0.010	--	2	06/14/10 10:00	06/14/10 14:09	64,9014(M)	JO

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

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: WG417454-2										
Cyanide, Total	ND		mg/l	0.005	--	1	06/11/10 14:15	06/14/10 15:59	1,9010B/9012A	JO
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG417718-3										
Cyanide, Physiologically Available	ND		mg/l	0.005	--	1	06/14/10 10:00	06/14/10 14:05	64,9014(M)	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER PLACE

Project Number: 170040901

Lab Number: L1008735

Report Date: 06/17/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG417454-1								
Cyanide, Total	93		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG417718-1								
Cyanide, Physiologically Available	96		-		80-120	-		
General Chemistry - Westborough Lab NEGATIVE LCS Associated sample(s): 01-02 Batch: WG417718-2								
Cyanide, Physiologically Available	**5**		-		0-10	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

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: WG417454-3 WG417454-4 QC Sample: L1008735-02 Client ID: MW-N2-6-10-10												
Cyanide, Total	1.50	0.2	1.91	**220**	Q	1.85	**190**	Q	80-120	15		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG417718-4 QC Sample: L1008760-01 Client ID: DUP Sample						
Cyanide, Physiologically Available	0.007	0.007	mg/l	1		20

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

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(*)
L1008735-01A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1008735-01B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1008735-01C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1008735-01D	Amber 1000ml unpreserved	A	7	3.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1008735-01E	Amber 1000ml unpreserved	A	7	3.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1008735-01F	Plastic 500ml HNO3 preserved	A	<2	3.1	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)
L1008735-01G	Plastic 250ml NaOH preserved	A	>12	3.1	Y	Absent	TCN-9010(14),PACN(14)
L1008735-02A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1008735-02B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1008735-02C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1008735-02D	Amber 1000ml unpreserved	A	7	3.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1008735-02E	Amber 1000ml unpreserved	A	7	3.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1008735-02F	Plastic 500ml HNO3 preserved	A	<2	3.1	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)
L1008735-02G	Plastic 250ml NaOH preserved	A	>12	3.1	Y	Absent	TCN-9010(14),PACN(14)

*Values in parentheses indicate holding time in days

Project Name: RIVER PLACE
Project Number: 170040901

Lab Number: L1008735
Report Date: 06/17/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1008735-03A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	RIVER PLACE	**Lab Number:**	L1008735
Project Number:	170040901	**Report Date:**	06/17/10

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.

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.

RE - Analytical results are from sample re-extraction.

Report Format: Data Usability Report

Project Name:	RIVER PLACE	**Lab Number:**	L1008735
Project Number:	170040901	**Report Date:**	06/17/10

Data Qualifiers

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: RIVER PLACE
Project Number: 170040901
Lab Number: L1008735
Report Date: 06/17/10

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 June 17, 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: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)
Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH.)
Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B,4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)
Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water
Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)
(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)
353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.
Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)
(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.
Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D
Non-Potable Water
Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)
(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)
245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)
(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.)
Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, S\M3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)
Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624. 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)
Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NY-DOH Certificate for Potable and Non-Potable Water.

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.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A , 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP
Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 6/10/10

ALPHA Job #: L1008735

ALPHA ANALYTICAL

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

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

Serial_No:06171018:55

Client Information

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Fax:

Email: SFlanagan, JCanouse@langan.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: River Place

Project Location: W 42nd St, NY, NY

Project #: 170091090 1

Project Manager: Jason Hayes

ALPHA Quote #:

Turn-Around Time

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

Date Due: 6/17/10 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 1700091090 1

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)	Cyanide-Total (EPA 9010)	Cyanide-Available (EPA 9014)							Sample Specific Comments	TOTAL # BOTTLES
08735-01	MW-S2-6-10-10	6/10/10	1115	MW	SPF	X	X	X	X	X								
02	MW-N2-6-10-10	6/10/10	1300	MW	SPF	X	X	X	X	X								
03	TB-6-10-10	6/10/10	1300	MW	SPF	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	C	E	E										

Relinquished By:	Date/Time	Received By:	Date/Time
SFlanagan/Langan	6/10/10 1340		6/10/10 1340
SWodell	6/10/10 1905		6/10/10 1905
	6/10/10 2215		6/10/10 2215

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)

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

Serial No.: 39518

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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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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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All approved analytes are listed below:

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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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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All approved analytes are listed below:

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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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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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

Serial No.: 39520

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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 SOLID AND HAZARDOUS WASTE
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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MANSFIELD, MA 02048

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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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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 SOLID AND HAZARDOUS WASTE
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

Serial No.: 39520

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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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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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All approved analytes are listed below:

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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320 FORBES BOULEVARD
MANSFIELD, MA 02048

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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)
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

Serial No.: 39215

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MR. CHRISTOPHER WAKEFIELD
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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:

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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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 POTABLE WATER
All approved analytes are listed below:

Volatile Halocarbons

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

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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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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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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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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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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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Wastewater Metals I		**Wastewater Metals II**	
Iron, Total	EPA 6010B	Antimony, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.7 Rev. 4.4		EPA 200.8 Rev. 5.4
	EPA 200.8 Rev. 5.4		EPA 6010B
	EPA 6010B		EPA 6020
	EPA 6020	Arsenic, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4		EPA 200.8 Rev. 5.4
	EPA 6010B		EPA 6010B
Manganese, Total	EPA 200.7 Rev. 4.4		EPA 6020
	EPA 200.8 Rev. 5.4	Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B		EPA 200.8 Rev. 5.4
	EPA 6020		EPA 6010B
Nickel, Total	EPA 200.7 Rev. 4.4		EPA 6020
	EPA 200.8 Rev. 5.4	Chromium VI	EPA 7196A
	EPA 6010B		SM 18-19 3500-Cr D
	EPA 6020	Mercury, Total	EPA 245.1 Rev. 3.0
Potassium, Total	EPA 200.7 Rev. 4.4		EPA 245.2 Rev. 1974
	EPA 6010B		EPA 7470A
Silver, Total	EPA 200.7 Rev. 4.4	Selenium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4		EPA 200.8 Rev. 5.4
	EPA 6010B		EPA 6010B
	EPA 6020		EPA 6020
Sodium, Total	EPA 200.7 Rev. 4.4	Vanadium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B		EPA 200.8 Rev. 5.4
Wastewater Metals II			EPA 6010B
Aluminum, Total	EPA 200.7 Rev. 4.4		EPA 6020
	EPA 200.8 Rev. 5.4	Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 6010B		EPA 200.8 Rev. 5.4
	EPA 6020		EPA 6010B

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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:

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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EPA Lab Code: MA00086

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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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All approved analytes are listed below:

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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All approved analytes are listed below:

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

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EPA Lab Code: MA00086

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All approved analytes are listed below:

Polynuclear Aromatics

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

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Attachment E
Indoor Air Monitoring Report

GCI *ENVIRONMENTAL ADVISORY, INC.*
655 Third Avenue New York, NY 10017 (212) 986-9460 Fax: (212) 986-9464

TRANSMITTAL

DATE: August 4, 2010

TO: Mr. Jason J. Hayes, LEED AP
Project Manager
Langan Engineering & Environmental Services
360 West 31st Street, 8th Floor
New York, NY 10001
Phone (212) 479.5427

RE: Riverplace I & II

BY: Messenger

MESSAGE: I am sending one (1) unbound copy of the Ambient/Indoor Air Quality Survey conducted within the above referenced property and area. I am forwarding bound copies to Bill Dacunto for his records.

If you have any questions or need additional information please contact me at (212) 986-9460.

Sincerely,

James Grond CIH, LEED®AP

cc: B. Dacunto - SPI

AMBIENT/INDOOR AIR MONITORING ASSESSMENT SURVEY

for the property located at:

RIVERPLACE I & II
NEW YORK, NY

within the:

MANAGEMENT OFFICE CONFERENCE ROOM
NORTH SIDE OCCUPIED RESTAURANT
LOADING DOCK
EAST AND WEST SIDE - OUTSIDE AIR

prepared for:

SILVERSTEIN PROPERTIES, INC.
7 WORLD TRADE CENTER
NEW YORK, NY 10007

prepared by:

GCI **ENVIRONMENTAL ADVISORY, INC.**
655 THIRD AVENUE
NEW YORK, NY 10017

JULY 2010

TABLE OF CONTENTS

AMBIENT/INDOOR AIR MONITORING ASSESSMENT SURVEY

prepared for:

SILVERSTEIN PROPERTIES, INC.
7 WORLD TRADE CENTER
NEW YORK, NY 10007

I. EXECUTIVE SUMMARY

GCI Environmental Advisory, Inc. conducted Ambient/Indoor Air Monitoring as specified within the Site Management Plan (SMP) prepared by Dvirka and Bartilucci Consulting Engineers for Consolidated Edison Company of New York, Inc. (CON ED) as per the requirements of The New York State Department of Environmental Conservation (NYCDEC) Brownfield Cleanup Agreement (Site ID No. C231024 and C231012) between CON Ed and NYSDEC during July 19, 2010. As part of the agreement , Ambient/Indoor Air Sampling was to be conducted within the Riverplace I portion of the property for a period of three (3) years. The survey was conducted by *GCI* Environmental Advisory, Inc. Certified Industrial Hygienist, Mr. James Grond and Senior Industrial Hygienist, Mr. Matthew P. Carriero.

The survey consisted of identifying two (2) outdoor sampling locations and three (3) interior sampling locations [the Restaurant Space was substituted for Retail Area #2 due to the limited size of Retail Space #2 and the potential interferences from products (i.e. grocery/delicatessen)]. Sampling in each area was conducted for an approximate one (1) hour sampling period. Outdoor sampling was conducted both prior to and upon completion of indoor sampling. A chemical inventory was completed within each area and all sampling locations were field screened with a photoionization detector (PID) to identify potential Volatile Organic Compounds (VOCs) interferences.

During the sampling period outdoor temperatures were in the mid to upper 80° F range and humidity levels in the mid 80% range. It was a sunny day with a constant light swirling wind in the 3 - 8 mile per hour (mph) range with little noticeable gusts.

A chemical inventory conducted within each sampling site did not indicate any unusual products but one of the interior sampling sites was adjacent to a dry cleaner. No unusual readings were reported during the pre-screening of each area and no-unusual conditions were noted which would affect the sampling.

Laboratory analysis of the collected samples did not indicate any unusual chemicals in the outside air [only Ethanol was detected in three (3) of the four (4) collected samples and one (1) sample had Chloromethane] while the interior samples collected in the Conference Room contained primarily chemicals associated with cleaning products.

The levels of chemicals detected in the Restaurant Space could be a function of the adjacent Dry Cleaner or cleaning activities and products utilized within the area while the Loading Dock space's chemicals are most likely due to the presence of the building's garbage collection compactor. Based upon the laboratory analysis and the levels detected in each sample, it does not appear that any of the detected chemicals are the result of sub-slab vapor intrusion into the building but rather general cleaning products and building occupation.

The following table summarizes the detected chemicals within each area:

Sample Location	Chemical Detected	Analytical Result
Outside Air - East Side - Middle of Park Area - Pre-Sample	Freon 12 Chloromethane Ethanol Isopropyl alcohol Acetone 2-Butanone (MEK) Toluene	0.52 ppbv / 2.6 µg/m^3 0.63 ppbv / 1.3 µg/m^3 11 ppbv / 22 µg/m^3 1.5 ppbv / 3.6 µg/m^3 6.3 ppbv / 15 µg/m^3 0.78 ppbv / 2.3 µg/m^3 2.1 ppbv / 8.0 µg/m^3
Outside Air - West side - approximately 20 feet South of Southwest corner of 42nd Street and West Side Highway	Chloromethane Ethanol Isopropyl alcohol Acetone 2-Butanone (MEK) Toluene	0.64 ppbv / 1.3 µg/m^3 25 ppbv / 48 µg/m^3 1.4 ppbv / 3.4 µg/m^3 8.7 ppbv / 21 µg/m^3 1.4 ppbv / 4.2 µg/m^3 4.9 ppbv / 18 µg/m^3
Inside Building - Management Office - Conference Room	Freon 112 Chloromethane Ethanol Isopropyl alcohol Acetone Acetonitrile Tertiary butyk Alcohol (TBA) Methylene Chloride 2-Butanone (MEK) Ethyl Acetate Chloroform Toluene Tetrachlorethane Ethylbenzene Xylene **Tentatively Identified Compounds** *1,1,-difluoro-Ethane* *Isobutane* *Butane* *2-methyl Butane* *1-Propanol* *Hexanal*	0.56 ppbv / 2.8 µg/m^3 0.66 pbv / 1.4µg/m^3 610 ppbv / 1100 µg/m^3 22 ppbv / 54 µg/m^3 26 ppbv / 62 µg/m^3 0.57 ppbv / 0.96 µg/m^3 0.50 ppbv / 1.5 µg/m^3 2.1 pbv / 7.2 µg/m^3 1.2 ppbv / 3.6 µg/m^3 3.2 ppbv / 11 µg/m^3 0.65 pbv / 3.2 µg/m^3 4.1 ppbv / 15 µg/m^3 1.2 ppbv / 7.9 µg/m^3 0.52 pbv / 2.3 µg/m^3 1.5 ppbv / 6.3 µg/m^3 **Est. Concentration** 86 ppbv / 230 µg/m^3 36 pbv / 84 µg/m^3 3.4 ppbv / 8.0 µg/m^3 3.1 ppbv / 9.0 µg/m^3 3.4 pbv / 10 µg/m^3 2.5 ppbv / 10 µg/m^3

Sample Location	Chemical Detected	Analytical Result
Inside Building - Middle of Italian Restaurant	Freon 12 Chloromethane Ethanol Isopropyl alcohol Acetone 2-Butanone (MEK) Ethyl Acetate Toluene **Tentatively Identified Compounds** *Isobutane* *Butane* *Limonene*	0.55 ppbv / 2.7 µg/m^3 0.64 pbv / 1.3 µg/m^3 100 ppbv / 190 µg/m^3 5.9 ppbv / 14 µg/m^3 13 ppbv / 31 µg/m^3 1.0 ppbv / 3.1 µg/m^3 1.0 ppbv / 3.6 µg/m^3 2.4 pbv / 9.1 µg/m^3 **Est. Concentration** 3.7 ppbv / 8.9 µg/m^3 3.3 pbv / 7.9 µg/m^3 2.1 ppbv / 12 µg/m^3
Inside Building - Loading Dock - East section	Chloromethane Ethanol Freon 11 Isopropyl alcohol Acetone Acetonitrile Carbon disulfide Methylene Chloride 2-Butanone (MEK) Ethyl Acetate Toluene	0.59 ppbv / 1.2 µg/m^3 41 pbv / 78 µg/m^3 0.58 ppbv / 3.2 µg/m^3 2.6 ppbv / 6.4 µg/m^3 9.4 ppbv / 22 µg/m^3 1.0 ppbv / 1.7 µg/m^3 0.54 ppbv / 1.7 µg/m^3 2.3 pbv / 7.8 µg/m^3 1.1 ppbv / 3.2 µg/m^3 0.65 ppbv / 2.3 µg/m^3 2.7 pbv / 10 µg/m^3
Outside Air - East Side - Middle of Park Area - Pre-Sample	Freon 12 Chloromethane Ethanol Isopropyl alcohol Acetone 2-Butanone (MEK) Toluene **Tentatively Identified Compounds** *Nonanal*	0.56 ppbv / 2.8 µg/m^3 0.68 ppbv / 1.4 µg/m^3 14 ppbv / 26 µg/m^3 1.1 ppbv / 2.6 µg/m^3 8.3 ppbv / 20 µg/m^3 1.2 ppbv / 3.4 µg/m^3 1.5 ppbv / 5.5 µg/m^3 **Est. Concentration** 6.2 ppbv / 36 µg/m^3
Outside Air - West side - approximately 20 feet South of Southwest corner of 42nd Street and West Side Highway	Chloromethane Ethanol Isopropyl alcohol Acetone 2-Butanone (MEK) Toluene	0.53 ppbv / 1.1 µg/m^3 14 ppbv / 27 µg/m^3 1.2 ppbv / 3.1 µg/m^3 8.0 ppbv / 19 µg/m^3 1.1 ppbv / 3.2 µg/m^3 2.9 ppbv / 11 µg/m^3

II. INTRODUCTION

The purpose of this survey was to conduct Ambient/Indoor Air Monitoring as specified within the Site Management Plan (SMP) prepared by Dvirka and Bartilucci Consulting Engineers for Consolidated Edison Company of New York, Inc. (CON ED) as per the requirements of The New York State Department of Environmental Conservation (NYCDEC) Brownfield Cleanup Agreement (Site ID No. C231024 and C231012). As part of the agreement , Ambient/Indoor Air Sampling was to be conducted within the Riverplace I portion of the property for a period of three (3) years.

An initial walk-through inspection was conducted and proposed sampling sites were identified that would include typical ground floor tenant air as well as outside air for comparison purposes. The sampling parameters were for Volatile Organic Compounds (VOCs) as per the Environmental Protection Agency's Method TO-15 with Tentatively Identified Compounds noted.

III. SAMPLING AND ANALYTICAL METHODOLOGY

The sampling and inspection strategy utilized included:

a. Visually inspecting each area to determine general ambient and logistic parameters;

b. Reviewing with facilities management all present tenant processes to determine potential sampling locations and sampling parameters;

c. GCI Environmental Advisory, Inc.'s Certified Industrial Hygienist identified two (2) outside sampling locations along with three (3) interior sampling locations including the Management Office Conference Room, the Loading Dock and the substitution of the Restaurant space instead of Retail Area #2 due to the limited size of Retail Space #2 and the potential interferences from products (i.e. grocery/delicatessen);

d. GCI Environmental Advisory, Inc.'s Certified Industrial Hygienist and Senior Industrial Hygienist conducted a site inspection within each area and created a chemical inventory to document any potential volatile organic compound (VOC) interference. A Photoionization Detector (PID) was utilized during the inspection to identify potential interferences;

e. Outside ambient samples were collected in six (6) liter evacuated Summa canisters with flow regulators set for a one (1) hour sampling period. A vacuum gauges independent of the canister was utilized to check the initial and final canisters pressure. Sample were placed approximately fifteen (15) feet away from the building at a sampling height of five (5) feet above grade surface via Teflon tubing while interior samples were collected within grade level areas and a sampling height of three (3) feet above grade surface via Teflon tubing.;

f. GCI utilized a Photoionization Detector (PID) at each sampling location, before and after the event, to check for outside interferences as well as documenting field observations and indoor and outdoor environmental conditions (traffic, potential contaminant sources, etc.);

g. Collecting the two (2), pre-interior ambient outdoor samples for an approximate one (1) hour sampling period prior to and one (1) hour before interior sampling;

h. Collecting the three (3) interior samples after outdoor sample collection for an approximate one (1) hour sampling period;

i. Collecting two (2), post-interior ambient outdoor samples for an approximate one (1) hour sampling period after interior sampling had been conducted;

j. Submitting one (1) field blank canister to be utilized for QA/QC back-up;

k. All samples were analyzed by an accredited laboratory for Volatile Organic Compounds (VOCs) via the Environmental Protection Agency Method TO-15;

l. The analytical results and sampling locations for all parameters tested can be found in their appropriate sections.

IV. OBSERVATIONS, CHEMICAL INVENTORY, ENVIRONMENTAL CONDITIONS

The following table details description of each sampling area, observations made during the sampling and a chemical inventory as well as environmental conditions or other potential impacts which would impact the sample results:

SAMPLING SITE	SAMPLING AREA DESCRIPTION	CHEMICAL INVENTORY	PID DETECTED INTERFERENCES	AMBIENT CONDITIONS
Outside Air East Side Park Area Samples RP-01 & RP-06	New Grass Open Area Park with North of Retail Area #2 with grass, pavers, plantings, etc. Weather Station placed into this area. Located East of traffic circle for apartment building and idling vehicles noted during the AM sampling period. Sample placed on new planter	No chemicals detected or noted	No detected levels or potential interferences	Sunny day with partly cloudy skies, temperatures in the mid to upper 80° F, humidity levels in the mid 80% range. There was a constant light wind with noticeable gusts.
Outside Air West Side of building 20' South of corner of 42nd Street Samples RP-02 & RP-07	Paved area located along 12th Avenue South of 42nd Street and traffic light - considerable traffic during both sampling periods.	No chemicals detected or noted	No detected levels or potential interferences	Sunny day with partly cloudy skies, temperatures in the mid to upper 30° F, humidity levels in the mid 30%. There was a constant, swirling wind with noticeable gusts.
Inside Air Management Office Conference Room Sample RP-03	Small interior Conference Room with table, chairs, computer, printer, office supplies, etc.	Office products (i.e. pens, tape, toner in printer, etc.)	No detected levels or potential interferences	No smell or odors detected - typical office temperatures
Inside Air Loading Dock Sample RP-04	Loading Dock area of Building with garbage compactor, scaffolding, bricks, mechanical equipment, etc.	1 - 5 gallon container of lubricating oil, hydraulic cylinders, etc. Old appliances and furniture. Area contains building dumpster where tenants dispose of used cleaning products and other items. No unusual products or chemical noted	No detected levels	Slight paint smell
Inside Air Occcupied Restaurant Sample RP-05	Newly occupied Italian Restaurant with tables, chairs, soda fountain, coolers, etc. - Area adjacent to Dry Cleaner which may impact samples.	Typical cleaning supplies, refrigerants (i.e. beer cooler, etc.), CO_2 cylinders, etc.	No detected levels	Typical food smells

CHEMICAL INVENTORY
RIVERPLACE 1 & 11
AMBIENT/INDOOR AIR MONITORING ASSESSMENT SUMMARY
JULY 2010

SAMPLING LOCATION	CHEMICAL INVENTORY
Management Office Conference Room	1 - Box highlighter pens 1 - Box type writer ribbons 1 - Multi-pack white-out 1 - Multi-pack tape 1 - box inject cartridge for fax machine 2 - boxes ink pens 5+ - New vinyl binders 10+ - packages of envelopes File folders Multi-draw blue print cabinet with prints Facsimile machine 1 - Roll bubble wrap Other associated packaged and open office supplies.
Active Loading Dock	1 - 30 yard Hydraulic Packing Unit for building wide recycling - products observed included plastic and glass containers formerly utilized as cleaners (i.e. glass, surfaces, clothing, etc.), food products and liquids (i.e. soda, water, liquor, etc.) 2 - Gas-powered snow blowers 2+ - Used stoves 4+ - Used refrigerator Old Cabinets 1 - 5 gallon container of floor stripper 3 - cleaning carts equipped with 1-gallon containers of tar/gum removal (Guardsman-no product information provided), glass and toilet cleaners, pledge-type cleaners and bleach 1 and 5 gallon paint cans both full and partially empty Noticeable grease and oil smells
Occupied Restaurant	Beer coolers with refrigerant systems Walk-in cooler and free standing refrigerators Cleaners, Glass, Brash, Stainless Steel, dishwashing detergents, etc. Pledge-type product Restaurant is also located across the hallway from an active pick-up and drop-off dry cleaning facility.

V. DISCUSSION AND ANALYTICAL RESULTS

GCI Environmental Advisory, Inc. conducted Ambient/Indoor Air Monitoring as specified within the Site Management Plan (SMP) prepared by Dvirka and Bartilucci Consulting Engineers for Consolidated Edison Company of New York, Inc. (CON ED) as per the requirements of The New York State Department of Environmental Conservation (NYCDEC) Brownfield Cleanup Agreement (Site ID No. C231024 and C231012) between CON Ed and NYSDEC.

The survey consisted of identifying two (2) outdoor sampling locations and three (3) interior sampling locations [the Brico Blu restaurant Space was substituted for Retail Area #2 due to the limited size of Retail Space #2 and the potential interferences from products (i.e. grocery/delicatessen)]. Sampling in each area was conducted for an approximate one (1) hour sampling period. Outdoor sampling was conducted both prior to and upon completion of indoor sampling. A chemical inventory was completed within each area and all sampling locations were field screened with a photoionization detector (PID) to identify potential Volatile Organic Compounds (VOCs) interferences.

During the sampling period outdoor temperatures were in the mid to upper 80° F range and humidity levels in the mid 64% - 70% range. It was a sunny day with a constant light swirling wind in the 3 - 13 mile per hour (mph) range from the South with minor gusts noticed.

A chemical inventory conducted within each sampling site did not indicate any unusual products but one of the interior sampling sites was adjacent to a dry cleaner. No unusual readings were reported during the pre-screening of each area and no-unusual conditions were noted which would affect the sampling.

Laboratory analysis of the collected samples did indicate several chemicals not noted in the 2009 sampling episode and is most likely due to time of year and weather conditions (heat and humidity), the new plastic planters and painted furniture in the East side outdoor sampling location.

In addition, the restaurant was now a functioning establishment with cleaning products be actively utilized as well as the presence of the building waste collection in the loading dock as well as discarded refrigerators, cabinets, paints, etc. The Conference Room, as evidenced by the photographs still contained numerous office supply products in open cabinets. chemicals associated with cleaning products.

Based upon the laboratory analysis and the levels detected in each sample, it does not appear that any of the detected chemicals are the result of sub-slab vapor intrusion into the building but rather general cleaning products and building occupation.

APPENDIX A
LABORATORY ANALYSIS

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: Annual IAQ N10-E9466
Client Sample ID: RP-1
EMSL ID: 491000588-6RE
Canister ID: E0452

Primary Lab File ID: K2882.D
Analysis Date: 07/28/2010
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: NA
Analysis Date: NA
Sample Vol(ml): NA
Dilution Factor: NA

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
Propylene	115-07-1	58.08	ND	1.0		ND	2.4
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	**0.52**	0.50		**2.6**	2.5
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5
Chloromethane	74-87-3	50.49	**0.63**	0.50		**1.3**	1.0
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3
Ethanol	64-17-5	46.07	**11**	0.50		**22**	0.94
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	**1.5**	0.50		**3.6**	1.2
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8
Acetone	67-64-1	58.08	**6.3**	0.50		**15**	1.2
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0
Acetonitrile	75-05-8	41.00	ND	0.50		ND	0.84
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.50		ND	1.5
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6
Methylene chloride	75-09-2	84.94	ND	0.50		ND	1.7
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0
n-Hexane	110-54-3	86.17	ND	0.50		ND	1.8
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8
2-Butanone(MEK)	78-93-3	72.10	**0.78**	0.50		**2.3**	1.5
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0
Ethyl acetate	141-78-6	88.10	ND	0.50		ND	1.8
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7
2,2,4-Trimethylpentane(Isooctane)	540-81-1	114.2	ND	0.50		ND	2.3
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0
Benzene	71-43-2	78.11	ND	0.50		ND	1.6
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: Annual IAQ N10-E9466
Client Sample ID: RP-1
EMSL ID: 491000588-6RE
Canister ID: E0452

Primary Lab File ID: K2882.D
Analysis Date: 07/28/2010
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: NA
Analysis Date: NA
Sample Vol(ml): NA
Dilution Factor: NA

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0
cis-1,3-Dichloropropene	542-75-6	111.0	ND	0.50		ND	2.3
Toluene	108-88-3	92.14	**2.1**	0.50		**8.0**	1.9
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3
Ethylbenzene	100-41-4	106.2	ND	0.50		ND	2.2
Xylene (para, meta)	1330-20-7	106.2	ND	1.0		ND	4.3
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2
Styrene	100-42-5	104.1	ND	0.50		ND	2.1
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	10.4	10	**104%**

Qualifier Definitions

B = Compound also found in method blank.

ND= Non Detect

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

Air Analysis Data Summary

EPA Compendium TO-15

Tentatively Identified Compounds

Client Project Name:	Annual IAQ N10-E9466	**EMSL ID:**	491000588-6RETIC
Client Sample ID:	RP-1	**Canister ID:**	E0452
Primary Lab File ID:	K2882.D	**Dilution Lab File ID:**	NA
Analysis Date:	07/28/2010	**Analysis Date:**	NA
Sample Vol(ml):	250	**Sample Vol(ml):**	NA
Dilution Factor:	1	**Dilution Factor:**	NA

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time

Qualifier Definitions

B = Compound also found in method blank.

J= Estimated value based on a 1:1 response to internal standard.

N= Presumptive evidence of compound based on library match.

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: Annual IAQ N10-E9466 **EMSL ID:** 491000588-5RE
Client Sample ID: RP-2 **Canister ID:** E0335

Primary Lab File ID: K2881.D **Dilution Lab File ID:** NA
Analysis Date: 07/28/2010 **Analysis Date:** NA
Sample Vol(ml): 250 **Sample Vol(ml):** NA
Dilution Factor: 1 **Dilution Factor:** NA

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
Propylene	115-07-1	58.08	ND	1.0		ND	2.4
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	ND	0.50		ND	2.5
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5
Chloromethane	74-87-3	50.49	**0.64**	0.50		**1.3**	1.0
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3
Ethanol	64-17-5	46.07	**25**	0.50	E	**48**	0.94
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	**1.4**	0.50		**3.4**	1.2
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8
Acetone	67-64-1	58.08	**8.7**	0.50		**21**	1.2
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0
Acetonitrile	75-05-8	41.00	ND	0.50		ND	0.84
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.50		ND	1.5
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6
Methylene chloride	75-09-2	84.94	ND	0.50		ND	1.7
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0
n-Hexane	110-54-3	86.17	ND	0.50		ND	1.8
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8
2-Butanone(MEK)	78-93-3	72.10	**1.4**	0.50		**4.2**	1.5
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0
Ethyl acetate	141-78-6	88.10	ND	0.50		ND	1.8
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7
2,2,4-Trimethylpentane(Isooctane)	540-81-1	114.2	ND	0.50		ND	2.3
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0
Benzene	71-43-2	78.11	ND	0.50		ND	1.6
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: Annual IAQ N10-E9466 **EMSL ID:** 491000588-5RE
Client Sample ID: RP-2 **Canister ID:** E0335

Primary Lab File ID: K2881.D **Dilution Lab File ID:** NA
Analysis Date: 07/28/2010 **Analysis Date:** NA
Sample Vol(ml): 250 **Sample Vol(ml):** NA
Dilution Factor: 1 **Dilution Factor:** NA

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0
cis-1,3-Dichloropropene	542-75-6	111.0	ND	0.50		ND	2.3
Toluene	108-88-3	92.14	**4.9**	0.50		**18**	1.9
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3
Ethylbenzene	100-41-4	106.2	ND	0.50		ND	2.2
Xylene (para, meta)	1330-20-7	106.2	ND	1.0		ND	4.3
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2
Styrene	100-42-5	104.1	ND	0.50		ND	2.1
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	10.7	10	**107%**

Qualifier Definitions

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

ND= Non Detect

Air Analysis Data Summary

EPA Compendium TO-15

Tentatively Identified Compounds

Client Project Name:	Annual IAQ N10-E9466	**EMSL ID:**	491000588-5RETIC
Client Sample ID:	RP-2	**Canister ID:**	E0335
Primary Lab File ID:	K2881.D	**Dilution Lab File ID:**	NA
Analysis Date:	07/28/2010	**Analysis Date:**	NA
Sample Vol(ml):	250	**Sample Vol(ml):**	NA
Dilution Factor:	1	**Dilution Factor:**	NA

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time

Qualifier Definitions

B = Compound also found in method blank.

J= Estimated value based on a 1:1 response to internal standard.

N= Presumptive evidence of compound based on library match.

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: Annual IAQ N10-E9466
Client Sample ID: RP-3
EMSL ID: 491000588-1RE
Canister ID: E0253

Primary Lab File ID: K2877.D
Analysis Date: 07/28/2010
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: K2876.D
Analysis Date: 7/28/2010
Sample Vol(ml): 125
Dilution Factor: 2

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
Propylene	115-07-1	58.08	ND	1.0		ND	2.4
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	**0.56**	0.50		**2.8**	2.5
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5
Chloromethane	74-87-3	50.49	**0.66**	0.50		**1.4**	1.0
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3
Ethanol	64-17-5	46.07	**610**	1.0	DE	**1100**	1.9
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	**22**	1.0	D	**54**	2.5
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8
Acetone	67-64-1	58.08	**26**	1.0	D	**62**	2.4
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0
Acetonitrile	75-05-8	41.00	**0.57**	0.50		**0.96**	0.84
Tertiary butyl alcohol(TBA)	75-65-0	74.12	**0.50**	0.50		**1.5**	1.5
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6
Methylene chloride	75-09-2	84.94	**2.1**	0.50		**7.2**	1.7
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0
n-Hexane	110-54-3	86.17	ND	0.50		ND	1.8
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8
2-Butanone(MEK)	78-93-3	72.10	**1.2**	0.50		**3.6**	1.5
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0
Ethyl acetate	141-78-6	88.10	**3.2**	0.50		**11**	1.8
Chloroform	67-66-3	119.4	**0.65**	0.50		**3.2**	2.4
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7
2,2,4-Trimethylpentane(Isooctane)	540-81-1	114.2	ND	0.50		ND	2.3
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0
Benzene	71-43-2	78.11	ND	0.50		ND	1.6
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: Annual IAQ N10-E9466 **EMSL ID:** 491000588-1RE
Client Sample ID: RP-3 **Canister ID:** E0253

Primary Lab File ID: K2877.D **Dilution Lab File ID:** K2876.D
Analysis Date: 07/28/2010 **Analysis Date:** 7/28/2010
Sample Vol(ml): 250 **Sample Vol(ml):** 125
Dilution Factor: 1 **Dilution Factor:** 2

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0
cis-1,3-Dichloropropene	542-75-6	111.0	ND	0.50		ND	2.3
Toluene	108-88-3	92.14	**4.1**	0.50		**15**	1.9
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0
Tetrachloroethene	127-18-4	165.8	**1.2**	0.50		**7.9**	3.4
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3
Ethylbenzene	100-41-4	106.2	**0.52**	0.50		**2.3**	2.2
Xylene (para, meta)	1330-20-7	106.2	**1.5**	1.0		**6.3**	4.3
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2
Styrene	100-42-5	104.1	ND	0.50		ND	2.1
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	10.5	10	**105%**

Qualifier Definitions

B = Compound also found in method blank.

ND= Non Detect

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

Air Analysis Data Summary

EPA Compendium TO-15

Tentatively Identified Compounds

Client Project Name: Annual IAQ N10-E9466
EMSL ID: 491000588-1RETIC
Client Sample ID: RP-3
Canister ID: E0253

Primary Lab File ID: K2877.D
Dilution Lab File ID: K2876.D
Analysis Date: 07/28/2010
Analysis Date: 7/28/2010
Sample Vol(ml): 250
Sample Vol(ml): 125
Dilution Factor: 1
Dilution Factor: 2

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time
Ethane, 1,1-difluoro-	000075-37-6	66	86	JN	230	4.79
Isobutane	000075-28-5	58	36	JN	84	5.23
Butane	000106-97-8	58	3.4	JN	8.0	5.63
Butane, 2-methyl-	000078-78-4	72	3.1	JN	9.0	7.01
1-Propanol, 2-methyl-	000078-83-1	74	3.4	JN	10	16.38
Hexanal	000066-25-1	100	2.5	JN	10	22.83

Qualifier Definitions

B = Compound also found in method blank.
J= Estimated value based on a 1:1 response to internal standard.
N= Presumptive evidence of compound based on library match.

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: Annual IAQ N10-E9466
Client Sample ID: RP-4
EMSL ID: 491000588-3RE
Canister ID: E0424

Primary Lab File ID: K2879.D
Analysis Date: 07/28/2010
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: NA
Analysis Date: NA
Sample Vol(ml): NA
Dilution Factor: NA

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
Propylene	115-07-1	58.08	ND	1.0		ND	2.4
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	**0.55**	0.50		**2.7**	2.5
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5
Chloromethane	74-87-3	50.49	**0.64**	0.50		**1.3**	1.0
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3
Ethanol	64-17-5	46.07	**100**	0.50	E	**190**	0.94
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	**5.9**	0.50		**14**	1.2
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8
Acetone	67-64-1	58.08	**13**	0.50		**31**	1.2
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0
Acetonitrile	75-05-8	41.00	ND	0.50		ND	0.84
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.50		ND	1.5
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6
Methylene chloride	75-09-2	84.94	ND	0.50		ND	1.7
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0
n-Hexane	110-54-3	86.17	ND	0.50		ND	1.8
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8
2-Butanone(MEK)	78-93-3	72.10	**1.0**	0.50		**3.1**	1.5
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0
Ethyl acetate	141-78-6	88.10	**1.0**	0.50		**3.6**	1.8
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7
2,2,4-Trimethylpentane(Isooctane)	540-81-1	114.2	ND	0.50		ND	2.3
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0
Benzene	71-43-2	78.11	ND	0.50		ND	1.6
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: Annual IAQ N10-E9466 **EMSL ID:** 491000588-3RE
Client Sample ID: RP-4 **Canister ID:** E0424

Primary Lab File ID: K2879.D **Dilution Lab File ID:** NA
Analysis Date: 07/28/2010 **Analysis Date:** NA
Sample Vol(ml): 250 **Sample Vol(ml):** NA
Dilution Factor: 1 **Dilution Factor:** NA

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0
cis-1,3-Dichloropropene	542-75-6	111.0	ND	0.50		ND	2.3
Toluene	108-88-3	92.14	**2.4**	0.50		**9.1**	1.9
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3
Ethylbenzene	100-41-4	106.2	ND	0.50		ND	2.2
Xylene (para, meta)	1330-20-7	106.2	ND	1.0		ND	4.3
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2
Styrene	100-42-5	104.1	ND	0.50		ND	2.1
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	10.3	10	**103%**

Qualifier Definitions

B = Compound also found in method blank.

ND= Non Detect

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

Air Analysis Data Summary

EPA Compendium TO-15

Tentatively Identified Compounds

Client Project Name: Annual IAQ N10-E9466 **EMSL ID:** 491000588-3RETIC
Client Sample ID: RP-4 **Canister ID:** E0424

Primary Lab File ID: K2879.D **Dilution Lab File ID:** NA
Analysis Date: 07/28/2010 **Analysis Date:** NA
Sample Vol(ml): 250 **Sample Vol(ml):** NA
Dilution Factor: 1 **Dilution Factor:** NA

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time
Isobutane	000075-28-5	58	3.7	JN	8.9	5.23
Butane	000106-97-8	58	3.3	JN	7.9	5.64
Limonene	000138-86-3	136	2.1	JN	12	28.17

Qualifier Definitions

B = Compound also found in method blank.
J= Estimated value based on a 1:1 response to internal standard.
N= Presumptive evidence of compound based on library match.

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: Annual IAQ N10-E9466
Client Sample ID: RP-5
EMSL ID: 491000588-4RE
Canister ID: E0461

Primary Lab File ID: K2880.D
Analysis Date: 07/28/2010
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: NA
Analysis Date: NA
Sample Vol(ml): NA
Dilution Factor: NA

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
Propylene	115-07-1	58.08	ND	1.0		ND	2.4
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	ND	0.50		ND	2.5
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5
Chloromethane	74-87-3	50.49	**0.59**	0.50		**1.2**	1.0
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3
Ethanol	64-17-5	46.07	**41**	0.50	E	**78**	0.94
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	**0.58**	0.50		**3.2**	2.8
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	**2.6**	0.50		**6.4**	1.2
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8
Acetone	67-64-1	58.08	**9.4**	0.50		**22**	1.2
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0
Acetonitrile	75-05-8	41.00	**1.0**	0.50		**1.7**	0.84
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.50		ND	1.5
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6
Carbon disulfide	75-15-0	76.14	**0.54**	0.50		**1.7**	1.6
Methylene chloride	75-09-2	84.94	**2.3**	0.50		**7.8**	1.7
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0
n-Hexane	110-54-3	86.17	ND	0.50		ND	1.8
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8
2-Butanone(MEK)	78-93-3	72.10	**1.1**	0.50		**3.2**	1.5
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0
Ethyl acetate	141-78-6	88.10	**0.65**	0.50		**2.3**	1.8
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7
2,2,4-Trimethylpentane(Isooctane)	540-81-1	114.2	ND	0.50		ND	2.3
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0
Benzene	71-43-2	78.11	ND	0.50		ND	1.6
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: Annual IAQ N10-E9466
Client Sample ID: RP-5
EMSL ID: 491000588-4RE
Canister ID: E0461

Primary Lab File ID: K2880.D
Analysis Date: 07/28/2010
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: NA
Analysis Date: NA
Sample Vol(ml): NA
Dilution Factor: NA

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0
cis-1,3-Dichloropropene	542-75-6	111.0	ND	0.50		ND	2.3
Toluene	108-88-3	92.14	**2.7**	0.50		**10**	1.9
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3
Ethylbenzene	100-41-4	106.2	ND	0.50		ND	2.2
Xylene (para, meta)	1330-20-7	106.2	ND	1.0		ND	4.3
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2
Styrene	100-42-5	104.1	ND	0.50		ND	2.1
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	9.7	10	97%

Qualifier Definitions

B = Compound also found in method blank.

ND= Non Detect

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

Air Analysis Data Summary

EPA Compendium TO-15

Tentatively Identified Compounds

Client Project Name:	Annual IAQ N10-E9466	**EMSL ID:**	491000588-4RETIC
Client Sample ID:	RP-5	**Canister ID:**	E0461
Primary Lab File ID:	K2880.D	**Dilution Lab File ID:**	NA
Analysis Date:	07/28/2010	**Analysis Date:**	NA
Sample Vol(ml):	250	**Sample Vol(ml):**	NA
Dilution Factor:	1	**Dilution Factor:**	NA

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time

Qualifier Definitions

B = Compound also found in method blank.

J= Estimated value based on a 1:1 response to internal standard.

N= Presumptive evidence of compound based on library match.

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: Annual IAQ N10-E9466 **EMSL ID:** 491000588-2RE
Client Sample ID: RP-6 **Canister ID:** E0353

Primary Lab File ID: K2878.D **Dilution Lab File ID:** NA
Analysis Date: 07/28/2010 **Analysis Date:** NA
Sample Vol(ml): 250 **Sample Vol(ml):** NA
Dilution Factor: 1 **Dilution Factor:** NA

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
Propylene	115-07-1	58.08	ND	1.0		ND	2.4
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	**0.56**	0.50		**2.8**	2.5
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5
Chloromethane	74-87-3	50.49	**0.68**	0.50		**1.4**	1.0
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3
Ethanol	64-17-5	46.07	**14**	0.50		**26**	0.94
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	**1.1**	0.50		**2.6**	1.2
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8
Acetone	67-64-1	58.08	**8.3**	0.50		**20**	1.2
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0
Acetonitrile	75-05-8	41.00	ND	0.50		ND	0.84
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.50		ND	1.5
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6
Methylene chloride	75-09-2	84.94	ND	0.50		ND	1.7
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0
n-Hexane	110-54-3	86.17	ND	0.50		ND	1.8
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8
2-Butanone(MEK)	78-93-3	72.10	**1.2**	0.50		**3.4**	1.5
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0
Ethyl acetate	141-78-6	88.10	ND	0.50		ND	1.8
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7
2,2,4-Trimethylpentane(Isooctane)	540-81-1	114.2	ND	0.50		ND	2.3
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0
Benzene	71-43-2	78.11	ND	0.50		ND	1.6
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: Annual IAQ N10-E9466 **EMSL ID:** 491000588-2RE
Client Sample ID: RP-6 **Canister ID:** E0353

Primary Lab File ID: K2878.D **Dilution Lab File ID:** NA
Analysis Date: 07/28/2010 **Analysis Date:** NA
Sample Vol(ml): 250 **Sample Vol(ml):** NA
Dilution Factor: 1 **Dilution Factor:** NA

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0
cis-1,3-Dichloropropene	542-75-6	111.0	ND	0.50		ND	2.3
Toluene	108-88-3	92.14	**1.5**	0.50		**5.5**	1.9
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3
Ethylbenzene	100-41-4	106.2	ND	0.50		ND	2.2
Xylene (para, meta)	1330-20-7	106.2	ND	1.0		ND	4.3
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2
Styrene	100-42-5	104.1	ND	0.50		ND	2.1
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	10.7	10	**107%**

Qualifier Definitions

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

ND= Non Detect

Air Analysis Data Summary

EPA Compendium TO-15

Tentatively Identified Compounds

Client Project Name:	Annual IAQ N10-E9466	**EMSL ID:**	491000588-2RETIC
Client Sample ID:	RP-6	**Canister ID:**	E0353
Primary Lab File ID:	K2878.D	**Dilution Lab File ID:**	NA
Analysis Date:	07/28/2010	**Analysis Date:**	NA
Sample Vol(ml):	250	**Sample Vol(ml):**	NA
Dilution Factor:	1	**Dilution Factor:**	NA

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time
Nonanal	000124-19-6	142	6.2	JN	36	29.67

Qualifier Definitions

B = Compound also found in method blank.

J= Estimated value based on a 1:1 response to internal standard.

N= Presumptive evidence of compound based on library match.

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: Annual IAQ N10-E9466
Client Sample ID: RP-7
EMSL ID: 491000588-7RE
Canister ID: E0440

Primary Lab File ID: K2883.D
Analysis Date: 07/28/2010
Sample Vol(ml): 250
Dilution Factor: 1

Dilution Lab File ID: NA
Analysis Date: NA
Sample Vol(ml): NA
Dilution Factor: NA

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
Propylene	115-07-1	58.08	ND	1.0		ND	2.4
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	ND	0.50		ND	2.5
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5
Chloromethane	74-87-3	50.49	**0.53**	0.50		**1.1**	1.0
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3
Ethanol	64-17-5	46.07	**14**	0.50		**27**	0.94
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	**1.2**	0.50		**3.1**	1.2
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8
Acetone	67-64-1	58.08	**8.0**	0.50		**19**	1.2
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0
Acetonitrile	75-05-8	41.00	ND	0.50		ND	0.84
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.50		ND	1.5
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6
Methylene chloride	75-09-2	84.94	ND	0.50		ND	1.7
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0
n-Hexane	110-54-3	86.17	ND	0.50		ND	1.8
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8
2-Butanone(MEK)	78-93-3	72.10	**1.1**	0.50		**3.2**	1.5
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0
Ethyl acetate	141-78-6	88.10	ND	0.50		ND	1.8
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7
2,2,4-Trimethylpentane(Isooctane)	540-81-1	114.2	ND	0.50		ND	2.3
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0
Benzene	71-43-2	78.11	ND	0.50		ND	1.6
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7

Air Analysis Data Summary

EPA Compendium TO-15

Target Compound List

Client Project Name: Annual IAQ N10-E9466 **EMSL ID:** 491000588-7RE
Client Sample ID: RP-7 **Canister ID:** E0440

Primary Lab File ID: K2883.D **Dilution Lab File ID:** NA
Analysis Date: 07/28/2010 **Analysis Date:** NA
Sample Vol(ml): 250 **Sample Vol(ml):** NA
Dilution Factor: 1 **Dilution Factor:** NA

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0
cis-1,3-Dichloropropene	542-75-6	111.0	ND	0.50		ND	2.3
Toluene	108-88-3	92.14	**2.9**	0.50		**11**	1.9
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3
Ethylbenzene	100-41-4	106.2	ND	0.50		ND	2.2
Xylene (para, meta)	1330-20-7	106.2	ND	1.0		ND	4.3
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2
Styrene	100-42-5	104.1	ND	0.50		ND	2.1
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	10.6	10	**106%**

Qualifier Definitions

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

ND= Non Detect

Air Analysis Data Summary

EPA Compendium TO-15

Tentatively Identified Compounds

Client Project Name:	Annual IAQ N10-E9466	**EMSL ID:**	491000588-7RETIC
Client Sample ID:	RP-7	**Canister ID:**	E0440
Primary Lab File ID:	K2883.D	**Dilution Lab File ID:**	NA
Analysis Date:	07/28/2010	**Analysis Date:**	NA
Sample Vol(ml):	250	**Sample Vol(ml):**	NA
Dilution Factor:	1	**Dilution Factor:**	NA

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time

Qualifier Definitions

B = Compound also found in method blank.

J= Estimated value based on a 1:1 response to internal standard.

N= Presumptive evidence of compound based on library match.

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

APPENDIX B
ATMOSPHERIC DATA

RIVERPLACE I & II
SUMMARY OF ENVIRONMENTAL CONDITIONS

Date	Time	Temp Outside	Temp High	Temp Low	Humidity	Dew Pt.	Wind Speed	Wind Direction	Wind Run	High Speed	High Direction	Wind Chill	Barometric Pressure
3/12/09	10:15 am	67.8	72.3	67.8	14	16.8	0	---	0	0	---	67.8	30.457
3/12/09	10:30 am	55	67.8	55	16	9.6	0	NE	0	5	NNE	55	30.53
3/12/09	10:45 am	34.9	54.5	34.9	32	8	5	N	1.25	13	WSW	30.5	30.546
3/12/09	11:00 am	34.7	34.9	34.4	34	9.1	5	ENE	1.25	17	N	30.2	30.549
3/12/09	11:15 am	34.4	34.7	34.1	32	7.5	6	W	1.5	17	NW	29.1	30.544
3/12/09	11:30 am	34.9	34.9	34.4	32	8	5	E	1.25	16	ENE	30.5	30.543
3/12/09	11:45 am	34.9	34.9	34.4	30	6.6	8	W	2	19	W	28.4	30.553
3/12/09	12:00 pm	34.9	34.9	34.9	31	7.3	7	W	1.75	17	NW	29	30.538
3/12/09	12:15 pm	35.8	35.8	34.9	31	8.1	5	E	1.25	18	WSW	31.5	30.528
3/12/09	12:30 pm	36.5	36.5	35.8	31	8.7	4	E	1	12	WNW	33.3	30.528
3/12/09	12:45 pm	37.2	37.2	36.5	30	8.6	5	W	1.25	14	ENE	33.2	30.524
3/12/09	1:00 pm	37.8	37.8	37.2	30	9.1	5	ESE	1.25	14	ENE	33.9	30.529
3/12/09	1:15 pm	37.9	38	37.8	30	9.2	5	E	1.25	14	WSW	34	30.532
3/12/09	1:30 pm	38.3	38.3	37.8	30	9.5	4	ENE	1	12	ENE	35.4	30.517
3/12/09	1:45 pm	38.5	38.9	38.3	28	8.2	4	E	1	12	E	35.6	30.517
3/12/09	2:00 pm	39.3	39.3	38.5	27	8	3	E	0.75	14	S	37.6	30.508
3/12/09	2:15 pm	40.2	40.2	39.3	47	21.6	0	SW	0	7	SW	40.2	30.445
3/12/09	2:30 pm	42.3	42.3	40.2	53	26.4	0	---	0	0	---	42.3	30.452
3/12/09	2:45 pm	46.2	46.2	42.3	44	25.5	0	---	0	0	---	46.2	30.477
3/12/09	3:00 pm	50.1	50.1	46.2	32	21.3	0	---	0	0	---	50.1	30.456
3/12/09	3:15 pm	51.9	51.9	50.1	25	17.1	0	NNE	0	2	NNE	51.9	30.464
3/12/09	3:30 pm	---	---	---	---	---	0	---	0	0	---	---	30.444

APPENDIX C
PHOTOGRAPHS

Photograph #1 View of East Side - Outside air sample collection area

Photograph #2 View of East Side - Outside air sample collection area - Sample collected adjacent to new plastic planter bed

Photograph #3 View of West Side - Outside air sample collection area - Sample placed approximately 20' South of corner of 42nd Street and 12th Avenue

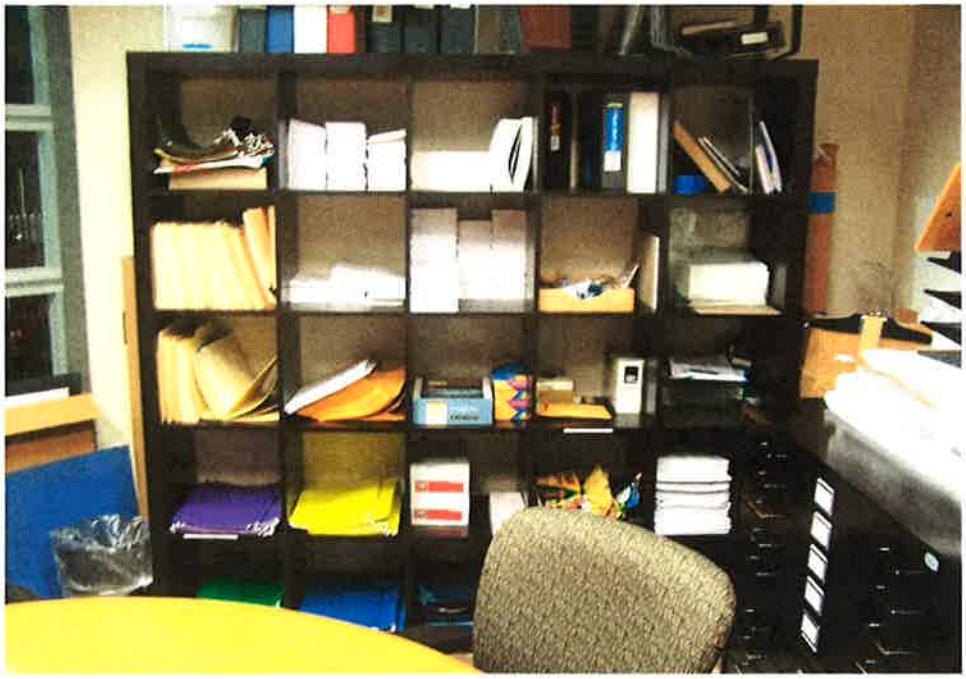
Photograph #4 View of outside of Restaurant sampling location

Photograph #5 View of Restaurant sampling location - sample placed on landing to mezzanine level office

Photograph #6 View of Dry Cleaner / Laundry adjoining restaurant sampling location

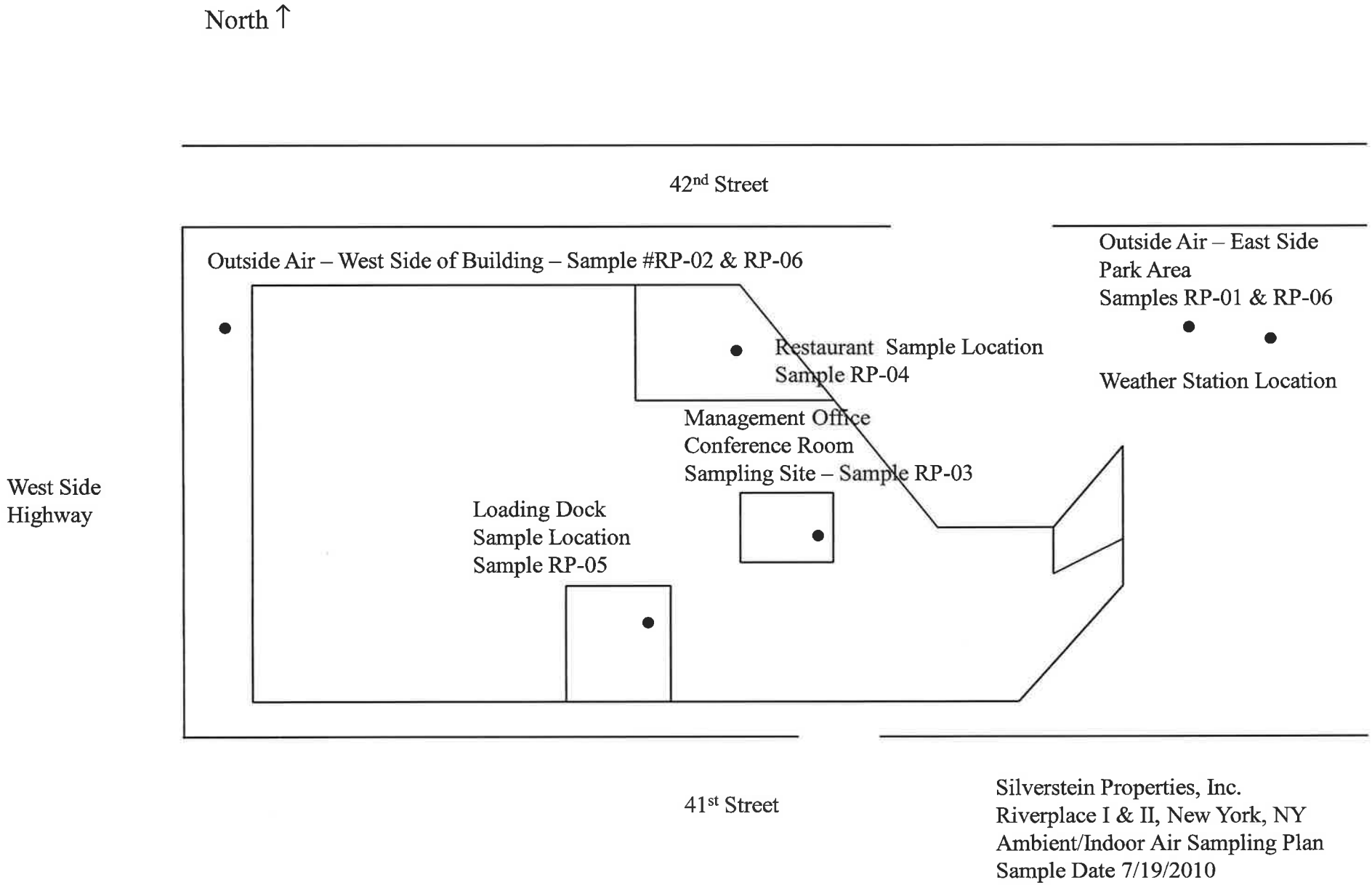
Photograph #7 View of Loading Dock - interior sampling location

Photograph #8 View of Management Office Conference Room



Photograph #9 View of Management Office Conference Room

APPENDIX D
SAMPLE LOCATION MAP


North ↑
42nd Street
Outside Air – West Side of Building – Sample #RP-02 & RP-06
Outside Air – East Side
Park Area
Samples RP-01 & RP-06
Restaurant Sample Location
Sample RP-04
Weather Station Location
Management Office
Conference Room
Sampling Site – Sample RP-03
West Side
Highway
Loading Dock
Sample Location
Sample RP-05
41st Street
Silverstein Properties, Inc.
Riverplace I & II, New York, NY
Ambient/Indoor Air Sampling Plan
Sample Date 7/19/2010