

May 21, 2013

**PHASE II  
ENVIRONMENTAL SITE  
ASSESSMENT REPORT**

**270 East Main Street  
City of New Rochelle  
Westchester County, New York**

*Prepared for*

**FOREST CITY RESIDENTIAL GROUP  
1 MetroTech Center North  
Brooklyn, New York 11201**

**ROUX ASSOCIATES, INC.**

*Environmental Consulting & Management*

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*209 Shafter Street, Islandia, New York 11749 ♦ 631-232-2600*

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## **1.0 INTRODUCTION**

Roux Associates, Inc. (Roux Associates), on behalf of Forest City Residential Group, Inc. (Forest City) completed a Phase II Environmental Site Assessment (ESA) at the property identified as the City Armory, located at 270 East Main Street in the City of New Rochelle, New York (Site). This Phase II ESA was completed as part of the Echo Bay Center Redevelopment Project. The investigation was conducted in February 2013 and was completed in general accordance with Roux Associates January 3, 2012 Revised Phase II Proposal. A summary of the scope of work and results of the investigation is presented below.

The scope of work described herein was developed based on a review of previous environmental reports and work plans obtained from Forest City, a limited Site walk performed by Roux Associates on February 13, 2012, the findings of a Phase I Environmental Assessment (ESA) performed by Roux Associates in August of 2012, and discussions with Forest City following completion of the Phase I ESA, which included defining the limits of the project parcel.

## **2.0 SITE BACKGROUND AND DESCRIPTION**

The Site location is depicted on Figure 1. The Site is owned by the City of New Rochelle and is approximately 2.92 acres in area. The northern half of the Site is mostly covered by building and asphalt pavement, while the southern half is mostly covered with overgrown vegetation. The Site is improved with buildings of the former City Armory, as follows:

- A two-story brick Administration Building with full basement;
- A dome-shaped one-story building known as the Drill Deck, with full basement; and
- A three-story addition that connects the Administration Building to the Drill Deck, also with full basement.

The Site was improved as early as 1911 with two small buildings that were ancillary to a residential dwelling located on the eastern adjoining property. The Site was improved circa 1931 with the main buildings of the former City Armory (i.e., Administration Building, Drill Deck and 3-story addition that connects these two buildings), as evidenced by the building's cornerstone and other historic records. The premises were first occupied by the 31st Fleet Division of the New York Naval Militia (i.e., Naval Volunteers/Navy and Marine Corps Reserves), and served as a training ground and meeting place for servicemen. The premises included a rifle range located along the western end of the basement underneath the Drill Deck, and an ammunition depot. In 1997, the City of New Rochelle acquired the Site, which has been used since that time to screen movies, as a Halloween haunted house venue, storage of building materials for Habitat for Humanity, and storage of traffic control equipment by the City of New Rochelle Police Department, the only present occupant. According to a representative of the present occupant, the Site was also used for the Fire and Police Department training purposes, and was rented to a company that staged trucks and other fleet vehicles and equipment onsite.

### **3.0 METHODS OF INVESTIGATION AND FINDINGS**

The scope of work completed at the Site included the installation of two soil borings and the collection of one soil sample for laboratory analysis beneath the location of a former 7,500 or 8,000 gallon No. 2 fuel oil tank, located in the former Coal Room in the basement of the Administration Building. These borings were completed to evaluate if the former fuel oil tank had a release into subsurface media at the Site. Prior to its removal on April 7, 2009, this fuel oil tank was placed directly on soil in a portion of the former Coal Room where the pitched concrete floor slab had been removed.

In addition to the soil borings completed associated with the former fuel oil tank, a third soil boring was included in the scope of Roux Associates January 3, 2013 Revised Phase II Proposal. This boring was intended to evaluate potential subsurface impacts associated with an abandoned 55-gallon drum observed at the Site by Roux Associates in the basement of the three-story building that connects the Drill Deck to the Administration Building during a July 2012 site reconnaissance visit. This drum was approximately one-third filled with suspect petroleum product or hazardous substance. During the implementation of the Phase II field work in February 2013, however, this drum was no longer present at the Site. Since the concrete appeared to be in good condition and minimal staining was observed in the former location of this drum, this third boring was not completed.

In the former fuel oil tank area, soil samples were collected to a depth of 2 feet below land surface (bls) where refusal on shallow weathered bedrock was encountered at boring locations SBA-1 and SBA-2. Groundwater was encountered at approximately 2 feet bls. Samples were collected using a hand auger, and were visually inspected for evidence of impacts (i.e., staining, odors), and screened for organic vapors in the field using a photoionization detector (PID). The soil lithology was recorded in a dedicated field notebook following the Unified Soil Classification System (USCS) and geologic logs were completed from the lithologic descriptions. The locations of borings SBA-1 and SBA-2 are presented in Figure 2.

There was no evidence of impacts in either soil boring; therefore, only one soil sample was collected for laboratory analysis (sample SBA-1 from the 0 to 2 foot interval). The soil sample was placed in a laboratory-supplied sample jar, labeled with all relevant information (i.e., sample

designation, date, time, requested analysis, etc.), and immediately placed in an ice-filled cooler. The sample was delivered via courier under chain-of-custody procedures to Accutest Laboratories, Inc. a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory, located in Dayton, New Jersey under chain of custody procedures.

The soil sample was submitted for analysis for the following potential compounds of concern:

- Target Compound List (TCL) volatile organic compounds (VOCs) plus the 10 highest concentration tentatively identified compounds (TICS) per USEPA Method 8260;
- TCL Semivolatile Organic Compounds (SVOCs) plus the 20 highest concentration TICS per USEPA Method 8270; and
- Target Analyte List (TAL) Metals per USEPA Method 6010 / 7471.

There were no detections of VOCs in the soil sample submitted for laboratory analysis. There were various detections of SVOCs in the soil sample; however none were above the New York State Department of Environmental Conservation's (NYSDEC's) 6 New York Code of Rules and Regulations (NYCRR) Part 375 Unrestricted Use Soil Cleanup Objectives (Unrestricted Use SCOs), and the detections of SVOCs were largely limited to polycyclic aromatic hydrocarbons (PAHs) which are indicative of historic fill common in urban environments. Similarly, there were multiple detections of metals; however, none were detected above the NYSDEC Unrestricted Use SCOs. Note that metals occur naturally in soils and are also present in historic fill. Soil sample analytical results are provided on Tables 1 through 3. Attempts were made to collect a groundwater sample from SBA-1, however, the occurrence of groundwater in the shallow weathered bedrock was limited, and it was not possible to collect a groundwater sample.

#### **4.0 CONCLUSIONS**

Based on the results of the Phase II ESA, Roux Associates' conclusions related to environmental conditions at the Site are as follows.

- There was no visual evidence of subsurface impacts identified beneath the former No. 2 fuel oil tank in the former Coal Room. Additionally, analytical data from boring SBA-1 confirmed there were no exceedances of the NYSDEC Unrestricted and Restricted Residential SCOs in soil for VOCs, SVOCs, and metals. Based on this data, it does not appear the former fuel oil tank released petroleum product to the subsurface.
- The abandoned drum observed in the basement of the three-story building that connects the Drill Deck to the Administration Building during a July 2012 site reconnaissance visit was no longer present at the Site. The concrete in the location of the former drum appeared to be in good condition and had minimal staining, suggesting this drum did not release petroleum product or hazardous substances to the subsurface.

## **5.0 LIMITATIONS OF INVESTIGATION**

This report, including the appendices and figures attached thereto, describes the results of Roux Associates' Phase II ESA to evaluate soil and groundwater quality involving or affecting the Site. Roux Associates has performed this Phase II environmental investigation in a professional manner using the degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. There is no warranty, expressed or implied, that the user of this environmental report will qualify for the Innocent Landowner Defense, as provided through the Superfund Amendments and Reauthorization Act.

Roux Associates, its officers, and its employees have no present or contemplated interest in the property or the parties involved. Our employment and compensation for preparing this report are not contingent upon any action or event resulting from analyses, observations, findings, opinions, or conclusions in or from the use of this report. Roux Associates shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time the Phase II environmental investigation was performed.

This report is not an appraisal or property value judgment. Roux Associates will not be held liable for any use of this report that results in property value loss or gain.

This report has been prepared for the exclusive use of the client named herein (Forest City Residential Group, Inc.) for specific application to the proposed project covered in this study. Any third party use of this report beyond that of the client named herein is the sole responsibility of the client.



Respectfully submitted,  
ROUX ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'R Kovacs', with a long horizontal flourish extending to the right.

Robert Kovacs  
Senior Environmental Scientist

A handwritten signature in black ink, appearing to read 'Joseph D. Duminuco', with a long horizontal flourish extending to the right.

Joseph D. Duminuco  
Principal Hydrogeologist/  
Vice President

**Phase II Environmental Site Assessment (Phase II ESA)  
270 East Main Street, New Rochelle, New York**

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**TABLES**

**Table 1. Summary of Volatile Organic Compounds in Soil, 270 East Main Street, New Rochelle, New York**

Parameter (Concentrations in µg/kg)	NYSDEC	NYSDEC	Sample Designation:	SBA-1
	Part 375 Unrestricted Use	Part 375 Restricted Residential	Sample Date:	2/15/2013
			Sample Depth (ft bls):	0-2
1,1,1-Trichloroethane	680	100000		6.3 U
1,1,2,2-Tetrachloroethane	--	--		6.3 U
1,1,2-Trichloroethane	--	--		6.3 U
1,1-Dichloroethane	270	26000		6.3 U
1,1-Dichloroethene	330	100000		6.3 U
1,2,3-Trichlorobenzene	--	--		6.3 U
1,2,4-Trichlorobenzene	--	--		6.3 U
1,2-Dibromoethane	--	--		1.3 U
1,2-Dichlorobenzene	1100	100000		6.3 U
1,2-Dichloroethane	20	3100		1.3 U
1,2-Dichloropropane	--	--		6.3 U
1,3-Dichlorobenzene	2400	49000		6.3 U
1,4-Dichlorobenzene	1800	13000		6.3 U
1,4-Dioxane	100	13000		160 U
2-Butanone (MEK)	120	100000		13 U
2-Hexanone	--	--		6.3 U
4-Methyl-2-pentanone (MIBK)	--	--		6.3 U
Acetone	50	100000		13 U
Benzene	60	4800		1.3 U
Bromochloromethane	--	--		6.3 U
Bromodichloromethane	--	--		6.3 U
Bromoform	--	--		6.3 U
Bromomethane	--	--		6.3 U
Carbon disulfide	--	--		6.3 U
Carbon tetrachloride	760	2400		6.3 U
Chlorobenzene	1100	100000		6.3 U
Chloroethane	--	--		6.3 U
Chloroform	370	49000		6.3 U
Chloromethane	--	--		6.3 U
cis-1,2-Dichloroethene	250	100000		6.3 U
cis-1,3-Dichloropropene	--	--		6.3 U
Cyclohexane	--	--		6.3 U
Dibromochloromethane	--	--		6.3 U
Dibromochloropropane	--	--		13 U
Dichlorodifluoromethane	--	--		6.3 U
Ethylbenzene	1000	41000		1.3 U
Freon 113	--	--		6.3 U
Isopropylbenzene	--	--		6.3 U
m+p-Xylene	--	--		1.3 U
Methyl acetate	--	--		6.3 U
Methylcyclohexane	--	--		6.3 U
Methylene chloride	50	100000		6.3 U
MTBE	930	100000		1.3 U
o-Xylene	--	--		1.3 U
Styrene	--	--		6.3 U
Tetrachloroethene	1300	19000		6.3 U
Toluene	700	100000		1.3 U
trans-1,2-Dichloroethene	190	100000		6.3 U
trans-1,3-Dichloropropene	--	--		6.3 U

**Table 1. Summary of Volatile Organic Compounds in Soil, 270 East Main Street, New Rochelle, New York**

Parameter (Concentrations in µg/kg)	NYSDEC	NYSDEC	<b>Sample Designation:</b> <b>Sample Date:</b> <b>Sample Depth (ft bls):</b>	SBA-1 2/15/2013 0-2
	Part 375 Unrestricted Use	Part 375 Restricted Residential		
Trichloroethene	470	21000		6.3 U
Trichlorofluoromethane	--	--		6.3 U
Vinyl chloride	20	900		6.3 U
Xylenes (total)	260	100000		1.3 U
Total TIC, Volatile				0

J - Estimated value

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

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

**Table 2. Summary of Semivolatile Organic Compounds in Soil, 270 East Main Street, New Rochelle, New York**

Parameter (Concentrations in µg/kg)	NYSDEC	NYSDEC	Sample Designation:	SBA-1
	Part 375 Unrestricted Use	Part 375 Restricted Residential	Sample Date:	2/15/2013
			Sample Depth (ft bls):	0-2
1,1'-Biphenyl	--	--		74 U
1,2,4,5-Tetrachlorobenzene	--	--		180 U
2,2'-oxybis (1-chloropropane)	--	--		74 U
2,3,4,6-Tetrachlorophenol	--	--		180 U
2,4,5-Trichlorophenol	--	--		180 U
2,4,6-Trichlorophenol	--	--		180 U
2,4-Dichlorophenol	--	--		180 U
2,4-Dimethylphenol	--	--		180 U
2,4-Dinitrophenol	--	--		740 U
2,4-Dinitrotoluene	--	--		74 U
2,6-Dinitrotoluene	--	--		74 U
2-Chloronaphthalene	--	--		74 U
2-Chlorophenol	--	--		180 U
2-Methylnaphthalene	--	--		74 U
2-Methylphenol	330	100000		74 U
2-Nitroaniline	--	--		180 U
2-Nitrophenol	--	--		180 U
3&4-Methylphenol	--	--		74 U
3,3'-Dichlorobenzidine	--	--		180 U
3-Nitroaniline	--	--		180 U
4,6-Dinitro-2-methylphenol	--	--		740 U
4-Bromophenyl phenyl ether	--	--		74 U
4-Chloro-3-methylphenol	--	--		180 U
4-Chloroaniline	--	--		180 U
4-Chlorophenyl phenyl ether	--	--		74 U
4-Nitroaniline	--	--		180 U
4-Nitrophenol	--	--		370 U
Acenaphthene	20000	100000		37 U
Acenaphthylene	100000	100000		37 U
Acetophenone	--	--		180 U
Anthracene	100000	100000		37 U
Atrazine	--	--		180 U
Benzaldehyde	--	--		180 U
Benzo[a]anthracene	1000	1000		28.3 J
Benzo[a]pyrene	1000	1000		22.4 J
Benzo[b]fluoranthene	1000	1000		34.1 J
Benzo[g,h,i]perylene	100000	100000		19.4 J
Benzo[k]fluoranthene	800	3900		14.5 J
Bis(2-chloroethoxy)methane	--	--		74 U
Bis(2-chloroethyl) ether	--	--		74 U
Bis(2-ethylhexyl) phthalate	--	--		74 U
Butylbenzyl phthalate	--	--		74 U
Caprolactam	--	--		74 U
Carbazole	--	--		74 U
Chrysene	1000	3900		25.1 J

**Table 2. Summary of Semivolatile Organic Compounds in Soil, 270 East Main Street, New Rochelle, New York**

Parameter (Concentrations in µg/kg)	NYSDEC	NYSDEC	<b>Sample Designation:</b> <b>Sample Date:</b> <b>Sample Depth (ft bls):</b>	SBA-1 2/15/2013 0-2
	Part 375 Unrestricted Use	Part 375 Restricted Residential		
Dibenzo[a,h]anthracene	330	330		37 U
Dibenzofuran	7000	59000		74 U
Diethyl phthalate	--	--		74 U
Dimethyl phthalate	--	--		74 U
Di-n-butyl phthalate	--	--		74 U
Di-n-octyl phthalate	--	--		74 U
Fluoranthene	100000	100000		46
Fluorene	30000	100000		37 U
Hexachlorobenzene	330	1200		74 U
Hexachlorobutadiene	--	--		37 U
Hexachlorocyclopentadiene	--	--		370 U
Hexachloroethane	--	--		180 U
Indeno[1,2,3-cd]pyrene	500	500		20 J
Isophorone	--	--		74 U
Naphthalene	12000	100000		37 U
Nitrobenzene	--	--		74 U
n-Nitrosodi-n-propylamine	--	--		74 U
n-Nitrosodiphenylamine	--	--		180 U
Pentachlorophenol	800	6700		370 U
Phenanthrene	100000	100000		37 U
Phenol	330	100000		74 U
Pyrene	100000	100000		46.8
Total TIC, Semi-Volatile				320 J

J - Estimated value

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

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

**Table 3. Summary of Metals in Soil, 270 East Main Street, New Rochelle, New York**

Parameter (Concentrations in mg/kg)	NYSDEC	NYSDEC	<b>Sample Designation:</b> <b>Sample Date:</b> <b>Sample Depth (ft bls):</b>	SBA-1 2/15/2013 0-2
	Part 375 Unrestricted Use	Part 375 Restricted Residential		
Aluminum	--	--		16900
Antimony	--	--		2.3 U
Arsenic	13	16		2.3 U
Barium	350	400		149
Beryllium	7.2	72		0.46
Cadmium	2.5	4.3		0.58 U
Calcium	--	--		8290
Chromium	30	180		25.3
Cobalt	--	--		8.9
Copper	50	270		37.1
Iron	--	--		23500
Lead	63	400		14.3
Magnesium	--	--		5710
Manganese	1600	2000		301
Mercury	0.18	0.81		0.035 U
Nickel	30	310		18.9
Potassium	--	--		7220
Selenium	3.9	180		2.3 U
Silver	2	180		0.58 U
Sodium	--	--		1200 U
Thallium	--	--		1.2 U
Vanadium	--	--		39.7
Zinc	109	10000		95.7

J - Estimated value

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

mg/kg - Milligrams per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

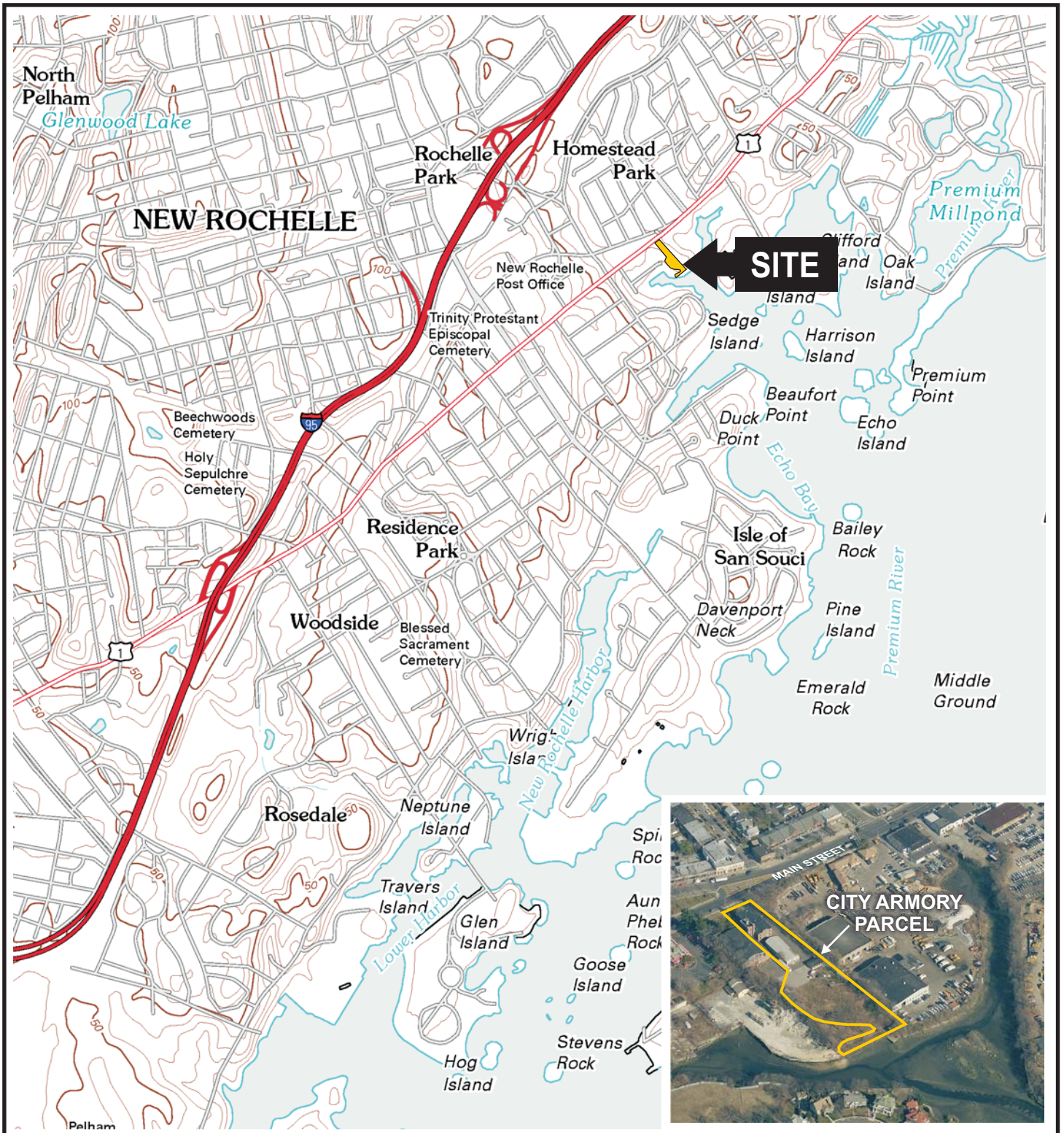
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

**Phase II Environmental Site Assessment (Phase II ESA)  
270 East Main Street, New Rochelle, New York**

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**FIGURES**





QUADRANGLE LOCATION



SOURCE:  
USGS; 2010, New Rochelle, NY  
7.5 Minute Topographic Quadrangle



Title:

**SITE LOCATION MAP**

CITY ARMORY PARCEL  
ECHO BAY WATERFRONT REDEVELOPMENT

Prepared for:

FOREST CITY RESIDENTIAL GROUP

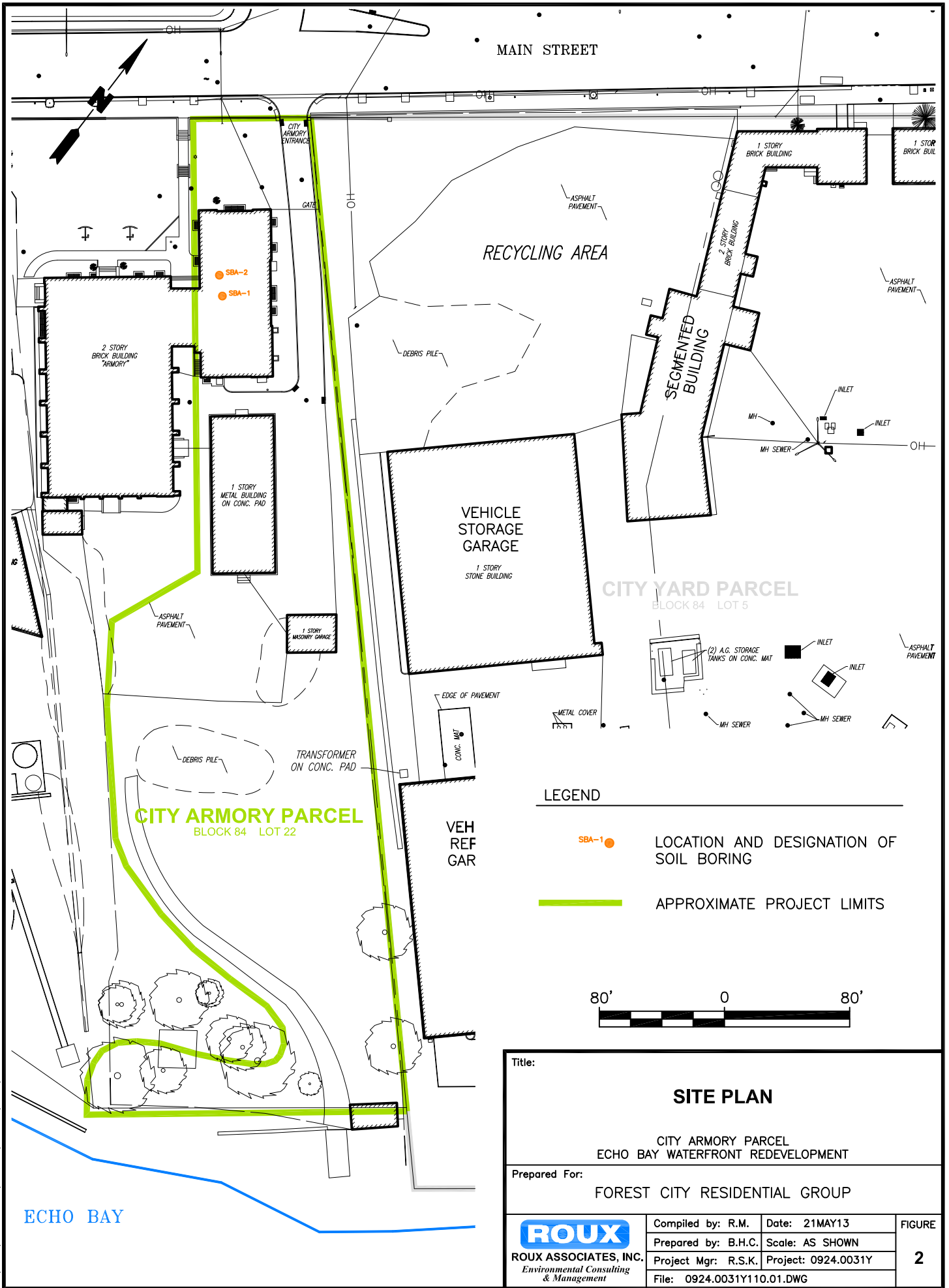
**ROUX**  
ROUX ASSOCIATES, INC.  
Environmental Consulting  
& Management

Compiled by: R.S.K.	Date: 21MAY13
Prepared by: B.H.C.	Scale: AS SHOWN
Project Mgr.: R.S.K.	Project No.: 0924.0031Y002
File: 0924.0031Y110.02.CDR	

FIGURE  
**1**

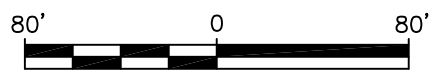
10924Y0031Y1100924.0031Y110.02.CDR

V:\CAD\PROJECTS\0924Y\0031Y\110\0924.0031Y110.01.DWG



LEGEND

- SBA-1 LOCATION AND DESIGNATION OF SOIL BORING
- APPROXIMATE PROJECT LIMITS



Title:			
<b>SITE PLAN</b>			
CITY ARMORY PARCEL ECHO BAY WATERFRONT REDEVELOPMENT			
Prepared For:			
FOREST CITY RESIDENTIAL GROUP			
<b>ROUX</b> ROUX ASSOCIATES, INC. Environmental Consulting & Management	Compiled by: R.M.	Date: 21MAY13	FIGURE  <b>2</b>
	Prepared by: B.H.C.	Scale: AS SHOWN	
	Project Mgr: R.S.K.	Project: 0924.0031Y	
	File: 0924.0031Y110.01.DWG		

**Phase II Environmental Site Assessment (Phase II ESA)  
270 East Main Street, New Rochelle, New York**

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**APPENDICES**

**Phase II Environmental Site Assessment (Phase II ESA)  
270 East Main Street, New Rochelle, New York**

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**APPENDIX A**

Soil Boring Logs



**ROUX ASSOCIATES, INC.**  
*Environmental Consulting  
 & Management*

209 Shafter Street  
 Islandia, NY 11749  
 Telephone: (631) 232-2600  
 Fax: (631) 232-9898

## SOIL BORING LOG

WELL NO. <b>SBA-1</b>	NORTHING <b>Not Measured</b>	EASTING <b>Not Measured</b>
PROJECT NO./NAME <b>0924.0031Y002 / Echo Bay Redevelopment</b>		LOCATION <b>270 East Main Street</b>
APPROVED BY <b>R. Kovacs</b>	LOGGED BY <b>A Hoffmann</b>	<b>New Rochelle, NY</b>
DRILLING CONTRACTOR/DRILLER <b>Aquifer Drilling &amp; Testing / Andrea Larkin</b>		GEOGRAPHIC AREA <b>City Armory / Below Basement</b>
DRILL BIT DIAMETER/TYPE <b>/</b>	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD <b>/ Hand Auger</b>
LAND SURFACE ELEVATION <b>Not Measured</b>	DEPTH TO WATER <b>Not Measured</b>	SAMPLING METHOD <b>3" Hand Auger</b>
		START-FINISH DATE <b>2/15/13-2/15/13</b>
		BACKFILL

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
1		Brown fine to coarse SAND, some Silt, trace gravel; wet	G	0.0	Soil sample SBA-1_0-2 collected for VOCs, SVOCs, and Metals
2					Refusal at 2 ft bls

**Phase II Environmental Site Assessment (Phase II ESA)  
270 East Main Street, New Rochelle, New York**

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**APPENDIX B**

Laboratory Analytical Data  
*(Provided on CD in Bound Copy)*

**Technical Report for**

**Roux Associates**

**Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY**

**Accutest Job Number: JB28972**

**Sampling Dates: 02/13/13 - 02/15/13**

**Report to:**

**Roux Associates**

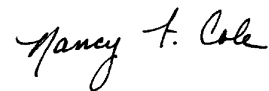
**rmaxwell@rouxinc.com**

**ATTN: Richard Maxwell**

**Total number of pages in report: 114**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.



**Nancy Cole**  
**Laboratory Director**

**Client Service contact: Marty Vitanza 732-329-0200**

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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1

2

3

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## Sample Summary

Roux Associates

Job No: JB28972

Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB28972-1	02/13/13	09:30 AH	02/15/13	SO	Soil	SB-16_8-10
JB28972-2	02/13/13	10:15 AH	02/15/13	SO	Soil	SB-16_16-18
JB28972-3	02/13/13	11:00 AH	02/15/13	SO	Soil	SB-7_7-9
JB28972-4	02/13/13	11:30 AH	02/15/13	SO	Soil	SB-7_10-12
JB28972-5	02/13/13	14:00 AH	02/15/13	SO	Soil	SB-5_10-12
JB28972-5R	02/13/13	14:00 AH	02/15/13	SO	Soil	SB-5_10-12
JB28972-6	02/13/13	14:30 AH	02/15/13	SO	Soil	SB-5_13-15
JB28972-7	02/13/13	10:30 AH	02/15/13	SO	Soil	DUP_21313
JB28972-8	02/13/13	12:00 AH	02/15/13	AQ	Field Blank Soil	FB_21313
JB28972-8R	02/13/13	12:00 AH	02/15/13	AQ	Field Blank Soil	FB_21313
JB28972-9	02/14/13	11:30 AH	02/15/13	SO	Soil	SB-3_0-2
JB28972-9R	02/14/13	11:30 AH	02/15/13	SO	Soil	SB-3_0-2
JB28972-10	02/14/13	12:00 AH	02/15/13	SO	Soil	SB-4_0-2

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.



## Sample Summary

(continued)

Roux Associates

**Job No:** JB28972

Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB28972-11	02/14/13	10:00 AH	02/15/13	AQ	Field Blank Soil	FB_21413
JB28972-11R	02/14/13	10:00 AH	02/15/13	AQ	Field Blank Soil	FB_21413
JB28972-12	02/15/13	12:00 AH	02/15/13	AQ	Trip Blank Soil	TRIP BLANK
JB28972-13	02/15/13	12:00 AH	02/15/13	SO	Soil	SBA-1_0-2

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** Roux Associates **Job No** JB28972  
**Site:** Echo Bay Redevelopment - City Yard, 224 East Main Street, New R **Report Date** 3/8/2013 4:24:32 PM

On 02/15/2013, 10 Sample(s), 1 Trip Blank(s) and 2 Field Blank(s) were received at Accutest Laboratories at a temperature of 2 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB28972 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### Volatiles by GCMS By Method SW846 8260B

**Matrix:** AQ **Batch ID:** V2A5627

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB28983-1MS, JB28983-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Styrene are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for Chloroethane, Chloromethane, m,p-Xylene, Methylene chloride, o-Xylene, Styrene, trans-1,2-Dichloroethene, Xylene (total) are outside control limits for sample JB28983-1MSD. Outside control limits due to matrix interference.

**Matrix:** SO **Batch ID:** VA7225

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB28972-9MS, JB28972-9MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for 1,1,2,2-Tetrachloroethane, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Cyclohexane, Ethylbenzene, Isopropylbenzene, m,p-Xylene, Methylcyclohexane, o-Xylene, Styrene, Tetrachloroethene, Xylene (total) are outside control limits for sample JB28972-9MSD. Outside control limits due to matrix interference.

**Matrix:** SO **Batch ID:** VA7227

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB28972-13MS, JB28972-13MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 2-Hexanone, 4-Methyl-2-pentanone(MIBK) are outside control limits for sample JB28972-13MSD. Outside control limits due to matrix interference.

**Matrix:** SO **Batch ID:** VD8390

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB28628-4MS, JB28628-4MSD were used as the QC samples indicated.
- JB28972-1: Dilution required due to sample matrix.
- JB28972-10: Dilution required due to matrix interference.
- JB28972-5: Dilution required due to sample matrix.

**Matrix:** SO **Batch ID:** VX5785

- All samples were analyzed within the recommended method holding time.

**Volatiles by GCMS By Method SW846 8260B****Matrix:** SO**Batch ID:** VX5785

- All method blanks for this batch meet method specific criteria.
- Sample(s) JB28972-6MS, JB28972-6MSD were used as the QC samples indicated.

**Matrix:** SO**Batch ID:** VX5787

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB29283-11MS, JB29283-11MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Toluene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Methylcyclohexane, Carbon disulfide, Toluene are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for Carbon disulfide, Toluene are outside control limits for sample JB29283-11MSD. Outside control limits due to matrix interference.

## Extractables by GCMS By Method SW846 8270D

**Matrix:** AQ

**Batch ID:** OP63732

- All samples were extracted within the recommended method holding time.
- Sample(s) JB29017-6MS, JB29017-6MSD were used as the QC samples indicated.
- Sample(s) JB28972-8 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.
- Matrix Spike Recovery(s) for 3,3'-Dichlorobenzidine are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 3,3'-Dichlorobenzidine are outside control limits. Outside control limits due to matrix interference.

**Matrix:** SO

**Batch ID:** OP63786

- All samples were extracted within the recommended method holding time.
- Sample(s) JB28972-5MS, JB28972-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Hexachloroethane are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for 2,4-Dinitrophenol, Anthracene, Atrazine, Benzaldehyde, Carbazole, Di-n-butyl phthalate, Di-n-octyl phthalate, Dibenzo(a,h)anthracene, Fluoranthene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, N-Nitrosodiphenylamine, Phenanthrene, Pyrene are outside control limits for sample OP63786-MSD. Outside of in house control limits.
- JB28972-6 for Nitrobenzene-d5: Outside of in house control limits.

**Matrix:** SO

**Batch ID:** OP63878

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB28913-11MS, JB28913-11MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Acetophenone, Benzaldehyde are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Benzaldehyde, 2-Methylnaphthalene, Hexachloroethane, Naphthalene are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for 1,1'-Biphenyl, 1,2,4,5-Tetrachlorobenzene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Methylnaphthalene, 2-Nitroaniline, 2-Nitrophenol, Acenaphthene, Acenaphthylene, Acetophenone, bis(2-Chloroethoxy)methane, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Isophorone, N-Nitroso-di-n-propylamine, Naphthalene, Nitrobenzene are outside control limits for sample OP63878-MSD. Outside of in house control limits.

**Matrix:** SO

**Batch ID:** OP64030

- The data for SW846 8270D meets quality control requirements.
- The following samples were extracted outside of holding time for method SW846 8270D: JB28972-6
- Sample(s) JB28972-6 have surrogates outside control limits. Probable cause due to matrix interference.
- JB28972-6: Confirmation run.

## Extractables by GC By Method SW846 8081B

<b>Matrix:</b> AQ	<b>Batch ID:</b> OP63832
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- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Methoxychlor are outside control limits. Outside of in house control limits.
- JB28972-8R: Sample extracted outside the holding time per client's request.
- JB28972-11R: Sample extracted outside the holding time per client's request.

<b>Matrix:</b> SO	<b>Batch ID:</b> OP63866
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- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB29023-10MS, JB29023-10MSD, OP63866-MSMSD were used as the QC samples indicated.
- JB28972-9R for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JB28972-9R for alpha-BHC: More than 40 % RPD for detected concentrations between the two GC columns.
- JB28972-9R for alpha-Chlordane: Reported from 2nd signal due to interference on 1st signal.
- JB28972-9R for Dieldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JB28972-9R for beta-BHC: More than 40 % RPD for detected concentrations between the two GC columns.

## Extractables by GC By Method SW846 8082A

<b>Matrix:</b> AQ	<b>Batch ID:</b> OP63831
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- All method blanks for this batch meet method specific criteria.
- Sample(s) JB29293-1MS, JB29293-1MSD, OP63831-MSMSD were used as the QC samples indicated.
- JB28972-11R: Sample extracted outside the holding time per client's request.
- JB28972-8R: Sample extracted outside the holding time per client's request.

<b>Matrix:</b> SO	<b>Batch ID:</b> OP63865
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- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB29023-10MS, JB29023-10MSD, OP63865-MSMSD were used as the QC samples indicated.

## Metals By Method SW846 6010C

<b>Matrix:</b> AQ	<b>Batch ID:</b> MP69877
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- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

<b>Matrix:</b> SO	<b>Batch ID:</b> MP70078
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- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB29530-1MS, JB29530-1MSD, JB29530-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Antimony, Copper, Iron, Magnesium, Manganese, Sodium, Vanadium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Iron, Magnesium, Manganese, Sodium, Vanadium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Calcium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Arsenic, Beryllium, Cadmium, Silver are outside control limits for sample MP70078-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP70078-MB1 for Zinc: All reported results <RL or >10x MB value.

### Metals By Method SW846 7470A

<b>Matrix:</b> AQ	<b>Batch ID:</b> MP70061
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- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

### Metals By Method SW846 7471B

<b>Matrix:</b> SO	<b>Batch ID:</b> MP70073
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- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB28974-5MSD, JB28974-5MS were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Mercury are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

### Wet Chemistry By Method SM2540 G-97

<b>Matrix:</b> SO	<b>Batch ID:</b> GN80247
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- The data for SM2540 G-97 meets quality control requirements.

<b>Matrix:</b> SO	<b>Batch ID:</b> GN80261
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- The data for SM2540 G-97 meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

## Summary of Hits

**Job Number:** JB28972  
**Account:** Roux Associates  
**Project:** Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY  
**Collected:** 02/13/13 thru 02/15/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**JB28972-1      SB-16\_8-10**

Cyclohexane <sup>a</sup>	86.7 J	390	9.7	ug/kg	SW846 8260B
Ethylbenzene <sup>a</sup>	226	78	20	ug/kg	SW846 8260B
Isopropylbenzene <sup>a</sup>	222 J	390	5.8	ug/kg	SW846 8260B
Methylcyclohexane <sup>a</sup>	547	390	13	ug/kg	SW846 8260B
Toluene <sup>a</sup>	32.9 J	78	8.2	ug/kg	SW846 8260B
m,p-Xylene <sup>a</sup>	156	78	14	ug/kg	SW846 8260B
o-Xylene <sup>a</sup>	44.8 J	78	11	ug/kg	SW846 8260B
Xylene (total) <sup>a</sup>	201	78	11	ug/kg	SW846 8260B
Total TIC, Volatile	45300 J			ug/kg	
Acenaphthene	260	38	11	ug/kg	SW846 8270D
Anthracene	358	38	13	ug/kg	SW846 8270D
Benzo(a)anthracene	593	38	12	ug/kg	SW846 8270D
Benzo(a)pyrene	645	38	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene	647	38	13	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	480	38	14	ug/kg	SW846 8270D
Benzo(k)fluoranthene	410	38	14	ug/kg	SW846 8270D
1,1'-Biphenyl	80.1	75	4.4	ug/kg	SW846 8270D
Chrysene	567	38	13	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	158	38	13	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate	190	75	33	ug/kg	SW846 8270D
Fluoranthene	1350	38	17	ug/kg	SW846 8270D
Fluorene	183	38	12	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	415	38	13	ug/kg	SW846 8270D
Naphthalene	150	38	10	ug/kg	SW846 8270D
Phenanthrene	835	38	17	ug/kg	SW846 8270D
Pyrene	1370	38	14	ug/kg	SW846 8270D
Total TIC, Semi-Volatile	45100 J			ug/kg	
Aluminum	13000	59		mg/kg	SW846 6010C
Arsenic	4.2	2.4		mg/kg	SW846 6010C
Barium	218	24		mg/kg	SW846 6010C
Beryllium	0.33	0.24		mg/kg	SW846 6010C
Cadmium	0.65	0.59		mg/kg	SW846 6010C
Calcium	12000	590		mg/kg	SW846 6010C
Chromium	34.0	1.2		mg/kg	SW846 6010C
Cobalt	9.9	5.9		mg/kg	SW846 6010C
Copper	86.8	3.0		mg/kg	SW846 6010C
Iron	29700	59		mg/kg	SW846 6010C
Lead	178	2.4		mg/kg	SW846 6010C
Magnesium	11200	590		mg/kg	SW846 6010C
Manganese	284	1.8		mg/kg	SW846 6010C
Mercury	0.066	0.036		mg/kg	SW846 7471B
Nickel	28.3	4.7		mg/kg	SW846 6010C
Potassium	7930	1200		mg/kg	SW846 6010C



## Summary of Hits

**Job Number:** JB28972  
**Account:** Roux Associates  
**Project:** Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY  
**Collected:** 02/13/13 thru 02/15/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Sodium		2870	1200		mg/kg	SW846 6010C
Vanadium		42.3	5.9		mg/kg	SW846 6010C
Zinc		177	2.4		mg/kg	SW846 6010C

### JB28972-2 SB-16\_16-18

Acetone		37.2	15	2.5	ug/kg	SW846 8260B
Carbon disulfide		3.7 J	7.3	0.17	ug/kg	SW846 8260B
Ethylbenzene		0.43 J	1.5	0.38	ug/kg	SW846 8260B
Isopropylbenzene		0.32 J	7.3	0.11	ug/kg	SW846 8260B
Toluene		2.3	1.5	0.15	ug/kg	SW846 8260B
m,p-Xylene		0.96 J	1.5	0.25	ug/kg	SW846 8260B
o-Xylene		0.61 J	1.5	0.20	ug/kg	SW846 8260B
Xylene (total)		1.6	1.5	0.20	ug/kg	SW846 8260B
Total TIC, Volatile		7.4 J			ug/kg	
Acenaphthene		102	46	13	ug/kg	SW846 8270D
Acenaphthylene		134	46	15	ug/kg	SW846 8270D
Anthracene		520	46	16	ug/kg	SW846 8270D
Benzo(a)anthracene		1720	46	15	ug/kg	SW846 8270D
Benzo(a)pyrene		1830	46	14	ug/kg	SW846 8270D
Benzo(b)fluoranthene		1620	46	15	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		1180	46	17	ug/kg	SW846 8270D
Benzo(k)fluoranthene		1250	46	17	ug/kg	SW846 8270D
Carbazole		127	92	21	ug/kg	SW846 8270D
Chrysene		1710	46	16	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		432	46	16	ug/kg	SW846 8270D
Dibenzofuran		55.5 J	92	14	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		146	92	41	ug/kg	SW846 8270D
Fluoranthene		3350	46	20	ug/kg	SW846 8270D
Fluorene		146	46	15	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		1120	46	16	ug/kg	SW846 8270D
2-Methylnaphthalene		41.5 J	92	26	ug/kg	SW846 8270D
Naphthalene		23.9 J	46	13	ug/kg	SW846 8270D
Phenanthrene		1680	46	21	ug/kg	SW846 8270D
Pyrene		3150	46	18	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		6920 J			ug/kg	
Aluminum		17900	50		mg/kg	SW846 6010C
Arsenic		5.1	2.0		mg/kg	SW846 6010C
Barium		201	20		mg/kg	SW846 6010C
Beryllium		0.39	0.20		mg/kg	SW846 6010C
Cadmium		0.77	0.50		mg/kg	SW846 6010C
Calcium		3190	500		mg/kg	SW846 6010C
Chromium		41.0	1.0		mg/kg	SW846 6010C
Cobalt		11.0	5.0		mg/kg	SW846 6010C
Copper		69.7	2.5		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB28972  
**Account:** Roux Associates  
**Project:** Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY  
**Collected:** 02/13/13 thru 02/15/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Iron		27900	50		mg/kg	SW846 6010C
Lead		275	2.0		mg/kg	SW846 6010C
Magnesium		7170	500		mg/kg	SW846 6010C
Manganese		289	1.5		mg/kg	SW846 6010C
Mercury		0.14	0.046		mg/kg	SW846 7471B
Nickel		32.5	4.0		mg/kg	SW846 6010C
Potassium		8460	1000		mg/kg	SW846 6010C
Sodium		4710	1000		mg/kg	SW846 6010C
Vanadium		53.4	5.0		mg/kg	SW846 6010C
Zinc		163	2.0		mg/kg	SW846 6010C

**JB28972-3      SB-7\_7-9**

Acetone		158	13	2.2	ug/kg	SW846 8260B
Benzene		15.0	1.3	0.15	ug/kg	SW846 8260B
2-Butanone (MEK)		26.5	13	3.1	ug/kg	SW846 8260B
Carbon disulfide		0.78 J	6.5	0.15	ug/kg	SW846 8260B
Cyclohexane		2.5 J	6.5	0.16	ug/kg	SW846 8260B
Ethylbenzene		9.5	1.3	0.34	ug/kg	SW846 8260B
Isopropylbenzene		4.6 J	6.5	0.097	ug/kg	SW846 8260B
Methylcyclohexane		14.1	6.5	0.22	ug/kg	SW846 8260B
Methyl Tert Butyl Ether		57.1	1.3	0.31	ug/kg	SW846 8260B
Toluene		3.6	1.3	0.14	ug/kg	SW846 8260B
m,p-Xylene		6.1	1.3	0.23	ug/kg	SW846 8260B
o-Xylene		2.6	1.3	0.18	ug/kg	SW846 8260B
Xylene (total)		8.7	1.3	0.18	ug/kg	SW846 8260B
Total TIC, Volatile		1067 J			ug/kg	
bis(2-Ethylhexyl)phthalate		76.9	76	34	ug/kg	SW846 8270D
Fluoranthene		17.7 J	38	17	ug/kg	SW846 8270D
Phenanthrene		24.8 J	38	17	ug/kg	SW846 8270D
Pyrene		24.2 J	38	15	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		3480 J			ug/kg	
Aluminum		15600	61		mg/kg	SW846 6010C
Arsenic		2.5	2.4		mg/kg	SW846 6010C
Barium		70.0	24		mg/kg	SW846 6010C
Beryllium		0.53	0.24		mg/kg	SW846 6010C
Calcium		1440	610		mg/kg	SW846 6010C
Chromium		24.5	1.2		mg/kg	SW846 6010C
Cobalt		6.9	6.1		mg/kg	SW846 6010C
Copper		20.2	3.0		mg/kg	SW846 6010C
Iron		17400	61		mg/kg	SW846 6010C
Lead		29.4	2.4		mg/kg	SW846 6010C
Magnesium		3830	610		mg/kg	SW846 6010C
Manganese		255	1.8		mg/kg	SW846 6010C
Mercury		0.17	0.036		mg/kg	SW846 7471B

## Summary of Hits

**Job Number:** JB28972  
**Account:** Roux Associates  
**Project:** Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY  
**Collected:** 02/13/13 thru 02/15/13



Lab Sample ID	Client Sample ID	Result/Qual	RL	MDL	Units	Method
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Nickel		23.7	4.8		mg/kg	SW846 6010C
Potassium		2520	1200		mg/kg	SW846 6010C
Vanadium		30.3	6.1		mg/kg	SW846 6010C
Zinc		48.7	2.4		mg/kg	SW846 6010C

### JB28972-4 SB-7\_10-12

Acetone		34.5	12	2.1	ug/kg	SW846 8260B
Benzene		0.51 J	1.2	0.15	ug/kg	SW846 8260B
Carbon disulfide		0.39 J	6.2	0.15	ug/kg	SW846 8260B
Methyl Tert Butyl Ether		16.0	1.2	0.29	ug/kg	SW846 8260B
Toluene		0.35 J	1.2	0.13	ug/kg	SW846 8260B
m,p-Xylene		0.36 J	1.2	0.22	ug/kg	SW846 8260B
Xylene (total)		0.36 J	1.2	0.17	ug/kg	SW846 8260B
Benzo(a)anthracene		17.7 J	37	12	ug/kg	SW846 8270D
Benzo(a)pyrene		18.0 J	37	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene		16.6 J	37	12	ug/kg	SW846 8270D
Chrysene		16.6 J	37	13	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		105	74	33	ug/kg	SW846 8270D
Fluoranthene		22.4 J	37	16	ug/kg	SW846 8270D
Pyrene		22.7 J	37	14	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		22140 J			ug/kg	
Aluminum		17500	62		mg/kg	SW846 6010C
Arsenic		4.9	2.5		mg/kg	SW846 6010C
Barium		41.1	25		mg/kg	SW846 6010C
Beryllium		0.49	0.25		mg/kg	SW846 6010C
Chromium		22.3	1.2		mg/kg	SW846 6010C
Copper		11.2	3.1		mg/kg	SW846 6010C
Iron		18300	62		mg/kg	SW846 6010C
Lead		11.0	2.5		mg/kg	SW846 6010C
Magnesium		3470	620		mg/kg	SW846 6010C
Manganese		96.9	1.9		mg/kg	SW846 6010C
Nickel		12.1	5.0		mg/kg	SW846 6010C
Potassium		1550	1200		mg/kg	SW846 6010C
Vanadium		34.4	6.2		mg/kg	SW846 6010C
Zinc		39.6	2.5		mg/kg	SW846 6010C

### JB28972-5 SB-5\_10-12

Isopropylbenzene <sup>a</sup>		34.8 J	410	6.1	ug/kg	SW846 8260B
Methylcyclohexane <sup>a</sup>		102 J	410	14	ug/kg	SW846 8260B
Total TIC, Volatile		15750 J			ug/kg	
Acenaphthene		52.3	39	11	ug/kg	SW846 8270D
Anthracene		23.0 J	39	14	ug/kg	SW846 8270D
Dibenzofuran		49.3 J	78	12	ug/kg	SW846 8270D

## Summary of Hits

**Job Number:** JB28972  
**Account:** Roux Associates  
**Project:** Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY  
**Collected:** 02/13/13 thru 02/15/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
		134	78	35	ug/kg	SW846 8270D
		22.3 J	39	17	ug/kg	SW846 8270D
		115	39	13	ug/kg	SW846 8270D
		255	39	18	ug/kg	SW846 8270D
		75.9	39	15	ug/kg	SW846 8270D
		15300 J			ug/kg	
		18600	63		mg/kg	SW846 6010C
		4.9	2.5		mg/kg	SW846 6010C
		30.8	25		mg/kg	SW846 6010C
		0.51	0.25		mg/kg	SW846 6010C
		21.0	1.3		mg/kg	SW846 6010C
		10.9	3.2		mg/kg	SW846 6010C
		20300	63		mg/kg	SW846 6010C
		11.3	2.5		mg/kg	SW846 6010C
		3570	630		mg/kg	SW846 6010C
		172	1.9		mg/kg	SW846 6010C
		13.1	5.1		mg/kg	SW846 6010C
		1330	1300		mg/kg	SW846 6010C
		34.4	6.3		mg/kg	SW846 6010C
		37.9	2.5		mg/kg	SW846 6010C

**JB28972-5R SB-5\_10-12**

No hits reported in this sample.

**JB28972-6 SB-5\_13-15**

		21.6	12	2.0	ug/kg	SW846 8260B
		0.31 J	5.9	0.087	ug/kg	SW846 8260B
		0.81 J	5.9	0.20	ug/kg	SW846 8260B
		0.55 J	1.2	0.12	ug/kg	SW846 8260B
		193 J			ug/kg	
		91.5	77	34	ug/kg	SW846 8270D
		220 J			ug/kg	
		12500	50		mg/kg	SW846 6010C
		3.8	2.0		mg/kg	SW846 6010C
		25.4	20		mg/kg	SW846 6010C
		0.54	0.20		mg/kg	SW846 6010C
		1290	500		mg/kg	SW846 6010C
		18.2	1.0		mg/kg	SW846 6010C
		6.5	5.0		mg/kg	SW846 6010C
		15.6	2.5		mg/kg	SW846 6010C
		18700	50		mg/kg	SW846 6010C
		8.1	2.0		mg/kg	SW846 6010C
		3510	500		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB28972  
**Account:** Roux Associates  
**Project:** Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY  
**Collected:** 02/13/13 thru 02/15/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Manganese		188	1.5		mg/kg	SW846 6010C
Nickel		16.1	4.0		mg/kg	SW846 6010C
Potassium		1640	1000		mg/kg	SW846 6010C
Vanadium		29.1	5.0		mg/kg	SW846 6010C
Zinc		35.9	2.0		mg/kg	SW846 6010C

**JB28972-7      DUP\_21313**

Acetone		14.8	13	2.2	ug/kg	SW846 8260B
Carbon disulfide		1.6 J	6.4	0.15	ug/kg	SW846 8260B
Isopropylbenzene		0.34 J	6.4	0.095	ug/kg	SW846 8260B
Methylcyclohexane		0.49 J	6.4	0.22	ug/kg	SW846 8260B
Toluene		0.82 J	1.3	0.13	ug/kg	SW846 8260B
m,p-Xylene		0.46 J	1.3	0.22	ug/kg	SW846 8260B
Xylene (total)		0.46 J	1.3	0.18	ug/kg	SW846 8260B
Acenaphthene		107	40	11	ug/kg	SW846 8270D
Acenaphthylene		77.5	40	13	ug/kg	SW846 8270D
Anthracene		357	40	14	ug/kg	SW846 8270D
Benzo(a)anthracene		933	40	13	ug/kg	SW846 8270D
Benzo(a)pyrene		1190	40	12	ug/kg	SW846 8270D
Benzo(b)fluoranthene		1130	40	13	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		826	40	15	ug/kg	SW846 8270D
Benzo(k)fluoranthene		717	40	15	ug/kg	SW846 8270D
Carbazole		107	79	18	ug/kg	SW846 8270D
Chrysene		1000	40	13	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		272	40	14	ug/kg	SW846 8270D
Dibenzofuran		48.6 J	79	12	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		146	79	35	ug/kg	SW846 8270D
Fluoranthene		2040	40	17	ug/kg	SW846 8270D
Fluorene		122	40	13	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		763	40	14	ug/kg	SW846 8270D
2-Methylnaphthalene		24.9 J	79	22	ug/kg	SW846 8270D
Naphthalene		30.5 J	40	11	ug/kg	SW846 8270D
Phenanthrene		1090	40	18	ug/kg	SW846 8270D
Pyrene		1850	40	15	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		4470 J			ug/kg	
Aluminum		12600	51		mg/kg	SW846 6010C
Arsenic		2.7	2.0		mg/kg	SW846 6010C
Barium		145	20		mg/kg	SW846 6010C
Beryllium		0.31	0.20		mg/kg	SW846 6010C
Calcium		1710	510		mg/kg	SW846 6010C
Chromium		27.0	1.0		mg/kg	SW846 6010C
Cobalt		7.2	5.1		mg/kg	SW846 6010C
Copper		33.7	2.5		mg/kg	SW846 6010C
Iron		19400	51		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB28972  
**Account:** Roux Associates  
**Project:** Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY  
**Collected:** 02/13/13 thru 02/15/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Lead		61.6	2.0		mg/kg	SW846 6010C
Magnesium		5110	510		mg/kg	SW846 6010C
Manganese		159	1.5		mg/kg	SW846 6010C
Mercury		0.10	0.041		mg/kg	SW846 7471B
Nickel		20.2	4.1		mg/kg	SW846 6010C
Potassium		6900	1000		mg/kg	SW846 6010C
Sodium		2960	1000		mg/kg	SW846 6010C
Vanadium		35.6	5.1		mg/kg	SW846 6010C
Zinc		88.6	2.0		mg/kg	SW846 6010C
<b>JB28972-8</b>		<b>FB_21313</b>				
bis(2-Chloroethyl)ether		1.2 BJ	2.0	0.31	ug/l	SW846 8270D
<b>JB28972-8R</b>		<b>FB_21313</b>				
No hits reported in this sample.						
<b>JB28972-9</b>		<b>SB-3_0-2</b>				
Acetone		28.9	13	2.2	ug/kg	SW846 8260B
Ethylbenzene		1.3	1.3	0.34	ug/kg	SW846 8260B
Isopropylbenzene		0.31 J	6.6	0.097	ug/kg	SW846 8260B
Tetrachloroethene		0.68 J	6.6	0.23	ug/kg	SW846 8260B
Toluene		1.3	1.3	0.14	ug/kg	SW846 8260B
m,p-Xylene		0.71 J	1.3	0.23	ug/kg	SW846 8260B
o-Xylene		0.50 J	1.3	0.18	ug/kg	SW846 8260B
Xylene (total)		1.2 J	1.3	0.18	ug/kg	SW846 8260B
Benzo(a)anthracene		44.7	34	11	ug/kg	SW846 8270D
Benzo(a)pyrene		42.9	34	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene		57.4	34	12	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		73.9	34	13	ug/kg	SW846 8270D
Benzo(k)fluoranthene		23.6 J	34	13	ug/kg	SW846 8270D
Chrysene		48.5	34	12	ug/kg	SW846 8270D
Fluoranthene		60.5	34	15	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		40.9	34	12	ug/kg	SW846 8270D
2-Methylnaphthalene		59.7 J	69	19	ug/kg	SW846 8270D
Naphthalene		19.5 J	34	9.4	ug/kg	SW846 8270D
Phenanthrene		50.1	34	16	ug/kg	SW846 8270D
Pyrene		64.4	34	13	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		3120 J			ug/kg	
Aluminum		7880	54		mg/kg	SW846 6010C
Arsenic		2.4	2.2		mg/kg	SW846 6010C
Barium		81.2	22		mg/kg	SW846 6010C
Calcium		42000	540		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** JB28972  
**Account:** Roux Associates  
**Project:** Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY  
**Collected:** 02/13/13 thru 02/15/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Chromium		10.3	1.1		mg/kg	SW846 6010C
Copper		22.5	2.7		mg/kg	SW846 6010C
Iron		13300	54		mg/kg	SW846 6010C
Lead		43.0	2.2		mg/kg	SW846 6010C
Magnesium		26900	540		mg/kg	SW846 6010C
Manganese		156	1.6		mg/kg	SW846 6010C
Mercury		0.043	0.035		mg/kg	SW846 7471B
Nickel		12.4	4.3		mg/kg	SW846 6010C
Potassium		4290	1100		mg/kg	SW846 6010C
Vanadium		27.0	5.4		mg/kg	SW846 6010C
Zinc		56.8	2.2		mg/kg	SW846 6010C
<b>JB28972-9R SB-3_0-2</b>						
alpha-BHC <sup>b</sup>		1.1	0.69	0.21	ug/kg	SW846 8081B
beta-BHC <sup>b</sup>		1.2	0.69	0.43	ug/kg	SW846 8081B
delta-BHC		1.5	0.69	0.34	ug/kg	SW846 8081B
gamma-BHC (Lindane)		1.1	0.69	0.34	ug/kg	SW846 8081B
alpha-Chlordane <sup>c</sup>		1.4	0.69	0.26	ug/kg	SW846 8081B
gamma-Chlordane		2.0	0.69	0.48	ug/kg	SW846 8081B
Dieldrin <sup>b</sup>		1.2	0.69	0.27	ug/kg	SW846 8081B
4,4'-DDD		8.7	0.69	0.38	ug/kg	SW846 8081B
4,4'-DDE		3.4	0.69	0.28	ug/kg	SW846 8081B
4,4'-DDT <sup>b</sup>		2.5	0.69	0.34	ug/kg	SW846 8081B
Heptachlor epoxide		1.3	0.69	0.26	ug/kg	SW846 8081B
Aroclor 1260		68.0	35	11	ug/kg	SW846 8082A
<b>JB28972-10 SB-4_0-2</b>						
Benzene <sup>d</sup>		25.4 J	65	7.7	ug/kg	SW846 8260B
Chlorobenzene <sup>d</sup>		445	320	7.0	ug/kg	SW846 8260B
Cyclohexane <sup>d</sup>		285 J	320	8.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene <sup>d</sup>		59.3 J	320	12	ug/kg	SW846 8260B
1,3-Dichlorobenzene <sup>d</sup>		13.8 J	320	12	ug/kg	SW846 8260B
1,4-Dichlorobenzene <sup>d</sup>		110 J	320	11	ug/kg	SW846 8260B
Ethylbenzene <sup>d</sup>		149	65	17	ug/kg	SW846 8260B
Isopropylbenzene <sup>d</sup>		695	320	4.8	ug/kg	SW846 8260B
Methylcyclohexane <sup>d</sup>		3260	320	11	ug/kg	SW846 8260B
Toluene <sup>d</sup>		148	65	6.8	ug/kg	SW846 8260B
m,p-Xylene <sup>d</sup>		665	65	11	ug/kg	SW846 8260B
o-Xylene <sup>d</sup>		257	65	9.0	ug/kg	SW846 8260B
Xylene (total) <sup>d</sup>		922	65	9.0	ug/kg	SW846 8260B
Total TIC, Volatile		112000 J			ug/kg	
Acenaphthene		331	69	20	ug/kg	SW846 8270D
Acenaphthylene		125	69	22	ug/kg	SW846 8270D

## Summary of Hits

**Job Number:** JB28972

**Account:** Roux Associates

**Project:** Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY

**Collected:** 02/13/13 thru 02/15/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Anthracene		553	69	24	ug/kg	SW846 8270D
Benzo(a)anthracene		1050	69	22	ug/kg	SW846 8270D
Benzo(a)pyrene		977	69	21	ug/kg	SW846 8270D
Benzo(b)fluoranthene		1060	69	23	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		627	69	26	ug/kg	SW846 8270D
Benzo(k)fluoranthene		584	69	26	ug/kg	SW846 8270D
Carbazole		191	140	32	ug/kg	SW846 8270D
Chrysene		1090	69	23	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		172	69	23	ug/kg	SW846 8270D
Dibenzofuran		160	140	20	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		577	140	61	ug/kg	SW846 8270D
Fluoranthene		3000	69	30	ug/kg	SW846 8270D
Fluorene		407	69	23	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		517	69	24	ug/kg	SW846 8270D
2-Methylnaphthalene		1970	140	38	ug/kg	SW846 8270D
Phenanthrene		2000	69	31	ug/kg	SW846 8270D
Pyrene		2350	69	26	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		101300 J			ug/kg	
Aluminum		8830	53		mg/kg	SW846 6010C
Arsenic		11.3	2.1		mg/kg	SW846 6010C
Barium		175	21		mg/kg	SW846 6010C
Beryllium		0.30	0.21		mg/kg	SW846 6010C
Cadmium		1.5	0.53		mg/kg	SW846 6010C
Calcium		15200	530		mg/kg	SW846 6010C
Chromium		23.4	1.1		mg/kg	SW846 6010C
Cobalt		5.8	5.3		mg/kg	SW846 6010C
Copper		65.8	2.7		mg/kg	SW846 6010C
Iron		16600	53		mg/kg	SW846 6010C
Lead		423	2.1		mg/kg	SW846 6010C
Magnesium		11000	530		mg/kg	SW846 6010C
Manganese		172	1.6		mg/kg	SW846 6010C
Mercury		0.11	0.031		mg/kg	SW846 7471B
Nickel		20.6	4.3		mg/kg	SW846 6010C
Potassium		3940	1100		mg/kg	SW846 6010C
Vanadium		35.2	5.3		mg/kg	SW846 6010C
Zinc		116	2.1		mg/kg	SW846 6010C

**JB28972-11**      **FB\_21413**

No hits reported in this sample.

**JB28972-11R**      **FB\_21413**

No hits reported in this sample.



## Summary of Hits

**Job Number:** JB28972  
**Account:** Roux Associates  
**Project:** Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY  
**Collected:** 02/13/13 thru 02/15/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**JB28972-12      TRIP BLANK**

No hits reported in this sample.

**JB28972-13      SBA-1\_0-2**

Benzo(a)anthracene	28.3 J	37	12	ug/kg	SW846 8270D
Benzo(a)pyrene	22.4 J	37	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene	34.1 J	37	12	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	19.4 J	37	14	ug/kg	SW846 8270D
Benzo(k)fluoranthene	14.5 J	37	14	ug/kg	SW846 8270D
Chrysene	25.1 J	37	12	ug/kg	SW846 8270D
Fluoranthene	46.0	37	16	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	20.0 J	37	13	ug/kg	SW846 8270D
Pyrene	46.8	37	14	ug/kg	SW846 8270D
Total TIC, Semi-Volatile	320 J			ug/kg	
Aluminum	16900	58		mg/kg	SW846 6010C
Barium	149	23		mg/kg	SW846 6010C
Beryllium	0.46	0.23		mg/kg	SW846 6010C
Calcium	8290	580		mg/kg	SW846 6010C
Chromium	25.3	1.2		mg/kg	SW846 6010C
Cobalt	8.9	5.8		mg/kg	SW846 6010C
Copper	37.1	2.9		mg/kg	SW846 6010C
Iron	23500	58		mg/kg	SW846 6010C
Lead	14.3	2.3		mg/kg	SW846 6010C
Magnesium	5710	580		mg/kg	SW846 6010C
Manganese	301	1.7		mg/kg	SW846 6010C
Nickel	18.9	4.6		mg/kg	SW846 6010C
Potassium	7220	1200		mg/kg	SW846 6010C
Vanadium	39.7	5.8		mg/kg	SW846 6010C
Zinc	95.7	2.3		mg/kg	SW846 6010C

- (a) Dilution required due to sample matrix.
- (b) More than 40 % RPD for detected concentrations between the two GC columns.
- (c) Reported from 2nd signal due to interference on 1st signal.
- (d) Dilution required due to matrix interference.

Sample Results

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Report of Analysis

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## Report of Analysis

<b>Client Sample ID:</b> SB-16_8-10		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-1		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 85.1
<b>Method:</b> SW846 8260B		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	D205678.D	1	02/21/13	ET	n/a	n/a	VD8390
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	8.5 g	10.0 ml	100 ul
Run #2			

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	780	130	ug/kg	
71-43-2	Benzene	ND	78	9.3	ug/kg	
74-97-5	Bromochloromethane	ND	390	21	ug/kg	
75-27-4	Bromodichloromethane	ND	390	8.2	ug/kg	
75-25-2	Bromoform	ND	390	12	ug/kg	
74-83-9	Bromomethane	ND	390	21	ug/kg	
78-93-3	2-Butanone (MEK)	ND	780	190	ug/kg	
75-15-0	Carbon disulfide	ND	390	9.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	390	10	ug/kg	
108-90-7	Chlorobenzene	ND	390	8.4	ug/kg	
75-00-3	Chloroethane	ND	390	18	ug/kg	
67-66-3	Chloroform	ND	390	6.4	ug/kg	
74-87-3	Chloromethane	ND	390	14	ug/kg	
110-82-7	Cyclohexane	86.7	390	9.7	ug/kg	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	780	69	ug/kg	
124-48-1	Dibromochloromethane	ND	390	13	ug/kg	
106-93-4	1,2-Dibromoethane	ND	78	9.9	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	390	15	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	390	15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	390	14	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	390	18	ug/kg	
75-34-3	1,1-Dichloroethane	ND	390	11	ug/kg	
107-06-2	1,2-Dichloroethane	ND	78	11	ug/kg	
75-35-4	1,1-Dichloroethene	ND	390	20	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	390	14	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	390	19	ug/kg	
78-87-5	1,2-Dichloropropane	ND	390	12	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	390	11	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	390	12	ug/kg	
123-91-1	1,4-Dioxane	ND	9700	4600	ug/kg	
100-41-4	Ethylbenzene	226	78	20	ug/kg	
76-13-1	Freon 113	ND	390	33	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SB-16_8-10	<b>Date Sampled:</b>	02/13/13
<b>Lab Sample ID:</b>	JB28972-1	<b>Date Received:</b>	02/15/13
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	85.1
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	390	48	ug/kg	
98-82-8	Isopropylbenzene	222	390	5.8	ug/kg	J
79-20-9	Methyl Acetate	ND	390	200	ug/kg	
108-87-2	Methylcyclohexane	547	390	13	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	78	18	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	390	58	ug/kg	
75-09-2	Methylene chloride	ND	390	99	ug/kg	
100-42-5	Styrene	ND	390	7.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	390	10	ug/kg	
127-18-4	Tetrachloroethene	ND	390	13	ug/kg	
108-88-3	Toluene	32.9	78	8.2	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	390	13	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	390	11	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	390	8.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	390	14	ug/kg	
79-01-6	Trichloroethene	ND	390	14	ug/kg	
75-69-4	Trichlorofluoromethane	ND	390	23	ug/kg	
75-01-4	Vinyl chloride	ND	390	11	ug/kg	
	m,p-Xylene	156	78	14	ug/kg	
95-47-6	o-Xylene	44.8	78	11	ug/kg	J
1330-20-7	Xylene (total)	201	78	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-130%
17060-07-0	1,2-Dichloroethane-D4	104%		70-122%
2037-26-5	Toluene-D8	104%		81-127%
460-00-4	4-Bromofluorobenzene	101%		66-132%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	alkane	10.86	3900	ug/kg	J
	alkane	12.19	2700	ug/kg	J
	alkane	12.34	4300	ug/kg	J
	Naphthalene decahydro-	17.54	2600	ug/kg	J
	C4 alkyl benzene	18.26	4700	ug/kg	J
	Naphthalene decahydro-methyl	18.48	2100	ug/kg	J
	C5 alkyl benzene	18.71	2800	ug/kg	J
	C4 alkyl benzene	18.84	2500	ug/kg	J
	1H-indene-dihydro-methyl	18.89	2700	ug/kg	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

<b>Client Sample ID:</b> SB-16_8-10	
<b>Lab Sample ID:</b> JB28972-1	<b>Date Sampled:</b> 02/13/13
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/15/13
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 85.1
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

**VOA TCL List (SOM0 1.1)**

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	19.10	2200	ug/kg	J
	C5 alkyl benzene	19.21	4400	ug/kg	J
	C5 alkyl benzene	19.36	2100	ug/kg	J
	1H-Indene-dihydro-dimethyl	19.41	2400	ug/kg	J
	Naphthalene tetrahydro-methyl	19.74	2400	ug/kg	J
	1H-indene-dihydro-dimethyl	19.86	3500	ug/kg	J
	Total TIC, Volatile		45300	ug/kg	J

(a) Dilution required due to sample matrix.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-16_8-10		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-1		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 85.1
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F20934.D	1	02/27/13	NAP	02/22/13	OP63786	EF5090
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.3 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	190	38	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	38	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	60	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	63	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	750	46	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	750	46	ug/kg	
95-48-7	2-Methylphenol	ND	75	43	ug/kg	
	3&4-Methylphenol	ND	75	48	ug/kg	
88-75-5	2-Nitrophenol	ND	190	40	ug/kg	
100-02-7	4-Nitrophenol	ND	380	63	ug/kg	
87-86-5	Pentachlorophenol	ND	380	64	ug/kg	
108-95-2	Phenol	ND	75	39	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	39	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	44	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	35	ug/kg	
83-32-9	Acenaphthene	260	38	11	ug/kg	
208-96-8	Acenaphthylene	ND	38	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.6	ug/kg	
120-12-7	Anthracene	358	38	13	ug/kg	
1912-24-9	Atrazine	ND	190	7.4	ug/kg	
56-55-3	Benzo(a)anthracene	593	38	12	ug/kg	
50-32-8	Benzo(a)pyrene	645	38	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	647	38	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	480	38	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	410	38	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	75	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	75	22	ug/kg	
92-52-4	1,1'-Biphenyl	80.1	75	4.4	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	75	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	75	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-16_8-10	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-1	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 85.1
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	75	12	ug/kg	
218-01-9	Chrysene	567	38	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	75	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	75	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	75	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	75	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	75	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	75	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	190	9.5	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	158	38	13	ug/kg	
132-64-9	Dibenzofuran	ND	75	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	75	8.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	75	18	ug/kg	
84-66-2	Diethyl phthalate	ND	75	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	75	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	190	75	33	ug/kg	
206-44-0	Fluoranthene	1350	38	17	ug/kg	
86-73-7	Fluorene	183	38	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	75	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	38	ug/kg	
67-72-1	Hexachloroethane	ND	190	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	415	38	13	ug/kg	
78-59-1	Isophorone	ND	75	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	75	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	150	38	10	ug/kg	
98-95-3	Nitrobenzene	ND	75	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	75	9.2	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	22	ug/kg	
85-01-8	Phenanthrene	835	38	17	ug/kg	
129-00-0	Pyrene	1370	38	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		21-116%
4165-62-2	Phenol-d5	61%		19-117%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-16_8-10	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-1	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 85.1
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68%		24-136%
4165-60-0	Nitrobenzene-d5	63%		21-122%
321-60-8	2-Fluorobiphenyl	60%		30-117%
1718-51-0	Terphenyl-d14	69%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.06	5100	ug/kg	J
	C4 alkyl benzene	5.87	1700	ug/kg	J
	unknown	6.69	1300	ug/kg	J
	alkane	6.77	1300	ug/kg	J
	Cyclohexane alkyl	7.07	1200	ug/kg	J
	alkane	7.33	2800	ug/kg	J
	unknown	7.64	1600	ug/kg	J
90-12-0	Naphthalene, 1-methyl-	7.85	2200	ug/kg	JN
	unknown	8.11	1700	ug/kg	J
	unknown	8.24	1200	ug/kg	J
	Naphthalene dimethyl	8.68	1800	ug/kg	J
	Naphthalene dimethyl	8.82	2100	ug/kg	J
	unknown	8.96	1400	ug/kg	J
	unknown	9.03	3600	ug/kg	J
	Naphthalene dimethyl	9.13	1200	ug/kg	J
	Decahydro--pentamethylna	9.20	1600	ug/kg	J
	unknown	9.46	1200	ug/kg	J
	Naphthalene trimethyl	9.53	1300	ug/kg	J
	Naphthalene trimethyl	9.71	2300	ug/kg	J
	Naphthalene trimethyl	9.76	1700	ug/kg	J
	Naphthalene trimethyl	9.90	3000	ug/kg	J
	unknown	10.51	2100	ug/kg	J
	unknown	10.69	1300	ug/kg	J
	unknown	10.87	1200	ug/kg	J
	unknown	11.16	2000	ug/kg	J
	unknown	11.36	1200	ug/kg	J
	Phenanthrene, -dimethyl-	13.03	1100	ug/kg	J
	Total TIC, Semi-Volatile		45100	ug/kg	J

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> SB-16_8-10	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-1	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 85.1
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	13000	59	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Antimony	< 2.4	2.4	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	4.2	2.4	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Barium	218	24	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.33	0.24	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	0.65	0.59	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Calcium	12000	590	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	34.0	1.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cobalt	9.9	5.9	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	86.8	3.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Iron	29700	59	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	178	2.4	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Magnesium	11200	590	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Manganese	284	1.8	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	0.066	0.036	mg/kg	1	02/28/13	02/28/13	CS SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	28.3	4.7	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Potassium	7930	1200	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.4	2.4	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	< 0.59	0.59	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Sodium	2870	1200	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.2	1.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Vanadium	42.3	5.9	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	177	2.4	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

(1) Instrument QC Batch: MA30585

(2) Instrument QC Batch: MA30595

(3) Prep QC Batch: MP70073

(4) Prep QC Batch: MP70078

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-16_16-18	
<b>Lab Sample ID:</b> JB28972-2	<b>Date Sampled:</b> 02/13/13
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/15/13
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 71.7
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A191981.D	1	02/25/13	OTR	n/a	n/a	VA7227
Run #2							

Run #1	Initial Weight
Run #1	4.8 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	37.2	15	2.5	ug/kg	
71-43-2	Benzene	ND	1.5	0.17	ug/kg	
74-97-5	Bromochloromethane	ND	7.3	0.38	ug/kg	
75-27-4	Bromodichloromethane	ND	7.3	0.15	ug/kg	
75-25-2	Bromoform	ND	7.3	0.22	ug/kg	
74-83-9	Bromomethane	ND	7.3	0.40	ug/kg	
78-93-3	2-Butanone (MEK)	ND	15	3.5	ug/kg	
75-15-0	Carbon disulfide	3.7	7.3	0.17	ug/kg	J
56-23-5	Carbon tetrachloride	ND	7.3	0.19	ug/kg	
108-90-7	Chlorobenzene	ND	7.3	0.16	ug/kg	
75-00-3	Chloroethane	ND	7.3	0.33	ug/kg	
67-66-3	Chloroform	ND	7.3	0.12	ug/kg	
74-87-3	Chloromethane	ND	7.3	0.27	ug/kg	
110-82-7	Cyclohexane	ND	7.3	0.18	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	15	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	7.3	0.24	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.5	0.18	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	7.3	0.27	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	7.3	0.27	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	7.3	0.26	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.3	0.33	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.3	0.20	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.5	0.20	ug/kg	
75-35-4	1,1-Dichloroethene	ND	7.3	0.37	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	7.3	0.27	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	7.3	0.35	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.3	0.22	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.3	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.3	0.23	ug/kg	
123-91-1	1,4-Dioxane	ND	180	86	ug/kg	
100-41-4	Ethylbenzene	0.43	1.5	0.38	ug/kg	J
76-13-1	Freon 113	ND	7.3	0.62	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SB-16_16-18	<b>Date Sampled:</b>	02/13/13
<b>Lab Sample ID:</b>	JB28972-2	<b>Date Received:</b>	02/15/13
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	71.7
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	7.3	0.90	ug/kg	
98-82-8	Isopropylbenzene	0.32	7.3	0.11	ug/kg	J
79-20-9	Methyl Acetate	ND	7.3	3.8	ug/kg	
108-87-2	Methylcyclohexane	ND	7.3	0.25	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.5	0.34	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.3	1.1	ug/kg	
75-09-2	Methylene chloride	ND	7.3	1.8	ug/kg	
100-42-5	Styrene	ND	7.3	0.13	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.3	0.19	ug/kg	
127-18-4	Tetrachloroethene	ND	7.3	0.25	ug/kg	
108-88-3	Toluene	2.3	1.5	0.15	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	7.3	0.24	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.3	0.20	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	7.3	0.15	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.3	0.25	ug/kg	
79-01-6	Trichloroethene	ND	7.3	0.25	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.3	0.43	ug/kg	
75-01-4	Vinyl chloride	ND	7.3	0.21	ug/kg	
	m,p-Xylene	0.96	1.5	0.25	ug/kg	J
95-47-6	o-Xylene	0.61	1.5	0.20	ug/kg	J
1330-20-7	Xylene (total)	1.6	1.5	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-130%
17060-07-0	1,2-Dichloroethane-D4	80%		70-122%
2037-26-5	Toluene-D8	106%		81-127%
460-00-4	4-Bromofluorobenzene	102%		66-132%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	alkane	9.89	7.4	ug/kg	J
	Total TIC, Volatile		7.4	ug/kg	J

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## Report of Analysis

<b>Client Sample ID:</b> SB-16_16-18	
<b>Lab Sample ID:</b> JB28972-2	<b>Date Sampled:</b> 02/13/13
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/15/13
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 71.7
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F20944.D	1	02/28/13	NAP	02/22/13	OP63786	EF5090
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	230	46	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	230	46	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	230	74	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	230	77	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	920	56	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	920	56	ug/kg	
95-48-7	2-Methylphenol	ND	92	52	ug/kg	
	3&4-Methylphenol	ND	92	58	ug/kg	
88-75-5	2-Nitrophenol	ND	230	49	ug/kg	
100-02-7	4-Nitrophenol	ND	460	78	ug/kg	
87-86-5	Pentachlorophenol	ND	460	79	ug/kg	
108-95-2	Phenol	ND	92	48	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	230	47	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	230	53	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	230	43	ug/kg	
83-32-9	Acenaphthene	102	46	13	ug/kg	
208-96-8	Acenaphthylene	134	46	15	ug/kg	
98-86-2	Acetophenone	ND	230	8.1	ug/kg	
120-12-7	Anthracene	520	46	16	ug/kg	
1912-24-9	Atrazine	ND	230	9.1	ug/kg	
56-55-3	Benzo(a)anthracene	1720	46	15	ug/kg	
50-32-8	Benzo(a)pyrene	1830	46	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	1620	46	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1180	46	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	1250	46	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	92	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	92	27	ug/kg	
92-52-4	1,1'-Biphenyl	ND	92	5.3	ug/kg	
100-52-7	Benzaldehyde	ND	230	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	92	14	ug/kg	
106-47-8	4-Chloroaniline	ND	230	15	ug/kg	
86-74-8	Carbazole	127	92	21	ug/kg	

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N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-16_16-18	
<b>Lab Sample ID:</b> JB28972-2	<b>Date Sampled:</b> 02/13/13
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/15/13
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 71.7
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	92	14	ug/kg	
218-01-9	Chrysene	1710	46	16	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	92	19	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	92	14	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	92	14	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	92	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	92	20	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	92	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	230	12	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	432	46	16	ug/kg	
132-64-9	Dibenzofuran	55.5	92	14	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	92	10	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	92	22	ug/kg	
84-66-2	Diethyl phthalate	ND	92	16	ug/kg	
131-11-3	Dimethyl phthalate	ND	92	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	146	92	41	ug/kg	
206-44-0	Fluoranthene	3350	46	20	ug/kg	
86-73-7	Fluorene	146	46	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	92	15	ug/kg	
87-68-3	Hexachlorobutadiene	ND	46	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	460	47	ug/kg	
67-72-1	Hexachloroethane	ND	230	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1120	46	16	ug/kg	
78-59-1	Isophorone	ND	92	12	ug/kg	
91-57-6	2-Methylnaphthalene	41.5	92	26	ug/kg	J
88-74-4	2-Nitroaniline	ND	230	20	ug/kg	
99-09-2	3-Nitroaniline	ND	230	18	ug/kg	
100-01-6	4-Nitroaniline	ND	230	18	ug/kg	
91-20-3	Naphthalene	23.9	46	13	ug/kg	J
98-95-3	Nitrobenzene	ND	92	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	92	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	230	27	ug/kg	
85-01-8	Phenanthrene	1680	46	21	ug/kg	
129-00-0	Pyrene	3150	46	18	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	230	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		21-116%
4165-62-2	Phenol-d5	56%		19-117%

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## Report of Analysis

<b>Client Sample ID:</b> SB-16_16-18	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-2	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 71.7
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	71%		24-136%
4165-60-0	Nitrobenzene-d5	52%		21-122%
321-60-8	2-Fluorobiphenyl	58%		30-117%
1718-51-0	Terphenyl-d14	66%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.08	470	ug/kg	J
	system artifact	2.87	230	ug/kg	J
	system artifact/aldol-condensation	3.06	5600	ug/kg	J
	C3 alkyl benzene	3.89	250	ug/kg	J
	system artifact	3.93	740	ug/kg	J
	system artifact	4.07	300	ug/kg	J
	system artifact	4.70	460	ug/kg	J
	unknown	8.87	260	ug/kg	J
	unknown	9.18	210	ug/kg	J
	unknown	12.14	210	ug/kg	J
	Phenanthrene, methyl	12.38	330	ug/kg	J
	Anthracene, -methyl-	12.41	420	ug/kg	J
	Anthracene, -methyl-	12.46	210	ug/kg	J
	unknown	12.52	1000	ug/kg	J
	unknown	12.55	220	ug/kg	J
	unknown	12.77	290	ug/kg	J
	unknown	13.02	210	ug/kg	J
	Phenanthrene, dimethyl	13.10	220	ug/kg	J
	unknown	13.14	240	ug/kg	J
	11H-Benzo-fluorene	13.92	410	ug/kg	J
	11H-Benzo-fluorene	13.99	240	ug/kg	J
	unknown	14.64	310	ug/kg	J
	unknown	15.42	210	ug/kg	J
	unknown PAH substance	16.06	340	ug/kg	J
	unknown PAH substance	16.24	810	ug/kg	J
	unknown PAH substance	17.94	310	ug/kg	J
	unknown PAH substance	18.33	220	ug/kg	J
	Total TIC, Semi-Volatile		6920	ug/kg	J

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## Report of Analysis

<b>Client Sample ID:</b> SB-16_16-18	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-2	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 71.7
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	17900	50	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Antimony	< 2.0	2.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	5.1	2.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Barium	201	20	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.39	0.20	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	0.77	0.50	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Calcium	3190	500	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	41.0	1.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cobalt	11.0	5.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	69.7	2.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Iron	27900	50	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	275	2.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Magnesium	7170	500	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Manganese	289	1.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	0.14	0.046	mg/kg	1	02/28/13	02/28/13	CS SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	32.5	4.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Potassium	8460	1000	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.0	2.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	< 0.50	0.50	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Sodium	4710	1000	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.0	1.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Vanadium	53.4	5.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	163	2.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

(1) Instrument QC Batch: MA30585

(2) Instrument QC Batch: MA30595

(3) Prep QC Batch: MP70073

(4) Prep QC Batch: MP70078

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-7_7-9		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-3		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 81.8
<b>Method:</b> SW846 8260B		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X133455.D	1	02/23/13	MS	n/a	n/a	VX5787
Run #2							

Run #1	Initial Weight
Run #1	4.7 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	158	13	2.2	ug/kg	
71-43-2	Benzene	15.0	1.3	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.5	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	6.5	0.14	ug/kg	
75-25-2	Bromoform	ND	6.5	0.20	ug/kg	
74-83-9	Bromomethane	ND	6.5	0.36	ug/kg	
78-93-3	2-Butanone (MEK)	26.5	13	3.1	ug/kg	
75-15-0	Carbon disulfide	0.78	6.5	0.15	ug/kg	J
56-23-5	Carbon tetrachloride	ND	6.5	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.5	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.5	0.30	ug/kg	
67-66-3	Chloroform	ND	6.5	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.5	0.24	ug/kg	
110-82-7	Cyclohexane	2.5	6.5	0.16	ug/kg	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.5	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.5	0.25	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.5	0.24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.5	0.23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.5	0.30	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.5	0.18	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.5	0.33	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.5	0.24	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.5	0.31	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.5	0.20	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.5	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.5	0.20	ug/kg	
123-91-1	1,4-Dioxane	ND	160	77	ug/kg	
100-41-4	Ethylbenzene	9.5	1.3	0.34	ug/kg	
76-13-1	Freon 113	ND	6.5	0.56	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

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N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> SB-7_7-9	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-3	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.8
<b>Method:</b> SW846 8260B	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.5	0.81	ug/kg	
98-82-8	Isopropylbenzene	4.6	6.5	0.097	ug/kg	J
79-20-9	Methyl Acetate	ND	6.5	3.4	ug/kg	
108-87-2	Methylcyclohexane	14.1	6.5	0.22	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	57.1	1.3	0.31	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.5	0.98	ug/kg	
75-09-2	Methylene chloride	ND	6.5	1.7	ug/kg	
100-42-5	Styrene	ND	6.5	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.5	0.17	ug/kg	
127-18-4	Tetrachloroethene	ND	6.5	0.22	ug/kg	
108-88-3	Toluene	3.6	1.3	0.14	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.5	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.5	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.5	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.5	0.23	ug/kg	
79-01-6	Trichloroethene	ND	6.5	0.23	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.5	0.39	ug/kg	
75-01-4	Vinyl chloride	ND	6.5	0.19	ug/kg	
	m,p-Xylene	6.1	1.3	0.23	ug/kg	
95-47-6	o-Xylene	2.6	1.3	0.18	ug/kg	
1330-20-7	Xylene (total)	8.7	1.3	0.18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
17060-07-0	1,2-Dichloroethane-D4	113%		70-122%
2037-26-5	Toluene-D8	101%		81-127%
460-00-4	4-Bromofluorobenzene	108%		66-132%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	3.21	660	ug/kg	JNB
	alkane	12.33	77	ug/kg	J
135-98-8	Benzene, (1-methylpropyl)-	18.43	55	ug/kg	JN
	C4 alkyl benzene	18.59	91	ug/kg	J
	1H-indene-dihydro-methyl	18.76	62	ug/kg	J
	C4 alkyl benzene	18.98	86	ug/kg	J
	alkane	19.38	120	ug/kg	J
	C4 alkyl benzene	19.44	84	ug/kg	J
	C5 alkyl benzene	19.74	72	ug/kg	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-7_7-9		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-3		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 81.8
<b>Method:</b> SW846 8260B		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

**VOA TCL List (SOM0 1.1)**

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	1H-Indene-dihydro-dimethyl	19.81	51	ug/kg	J
	1H-Indene-dihydro-dimethyl	19.91	110	ug/kg	J
	Naphthalene tetrahydro-methyl	20.17	70	ug/kg	J
	1H-Indene-dihydro-dimethyl	20.27	76	ug/kg	J
	1H-Indene-dihydro-dimethyl	20.41	57	ug/kg	J
	1H-Indene-dihydro-dimethyl	20.61	56	ug/kg	J
	Total TIC, Volatile		1067	ug/kg	J

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.3  
4

## Report of Analysis

<b>Client Sample ID:</b> SB-7_7-9		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-3		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 81.8
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F20939.D	1	02/27/13	NAP	02/22/13	OP63786	EF5090
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	32.2 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	190	38	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	38	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	61	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	64	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	760	46	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	760	46	ug/kg	
95-48-7	2-Methylphenol	ND	76	43	ug/kg	
	3&4-Methylphenol	ND	76	48	ug/kg	
88-75-5	2-Nitrophenol	ND	190	40	ug/kg	
100-02-7	4-Nitrophenol	ND	380	64	ug/kg	
87-86-5	Pentachlorophenol	ND	380	65	ug/kg	
108-95-2	Phenol	ND	76	40	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	39	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	44	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	36	ug/kg	
83-32-9	Acenaphthene	ND	38	11	ug/kg	
208-96-8	Acenaphthylene	ND	38	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.7	ug/kg	
120-12-7	Anthracene	ND	38	13	ug/kg	
1912-24-9	Atrazine	ND	190	7.5	ug/kg	
56-55-3	Benzo(a)anthracene	ND	38	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	38	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	38	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	38	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	38	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	76	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	76	22	ug/kg	
92-52-4	1,1'-Biphenyl	ND	76	4.4	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	76	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	76	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-7_7-9		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-3		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 81.8
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	76	12	ug/kg	
218-01-9	Chrysene	ND	38	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	76	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	76	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	76	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	76	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	76	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	76	14	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	190	9.6	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	38	13	ug/kg	
132-64-9	Dibenzofuran	ND	76	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	76	8.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	76	18	ug/kg	
84-66-2	Diethyl phthalate	ND	76	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	76	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	76.9	76	34	ug/kg	
206-44-0	Fluoranthene	17.7	38	17	ug/kg	J
86-73-7	Fluorene	ND	38	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	76	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	39	ug/kg	
67-72-1	Hexachloroethane	ND	190	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38	13	ug/kg	
78-59-1	Isophorone	ND	76	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	76	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	ND	38	10	ug/kg	
98-95-3	Nitrobenzene	ND	76	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	76	9.3	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	23	ug/kg	
85-01-8	Phenanthrene	24.8	38	17	ug/kg	J
129-00-0	Pyrene	24.2	38	15	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		21-116%
4165-62-2	Phenol-d5	31%		19-117%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-7_7-9	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-3	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.8
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	61%		24-136%
4165-60-0	Nitrobenzene-d5	29%		21-122%
321-60-8	2-Fluorobiphenyl	33%		30-117%
1718-51-0	Terphenyl-d14	64%		31-129%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.06	2600	ug/kg	J
	system artifact	3.93	290	ug/kg	J
	system artifact	4.08	160	ug/kg	J
	system artifact	4.70	200	ug/kg	J
	alkane	9.01	180	ug/kg	J
13798-23-7	Sulfur	9.62	200	ug/kg	JN
	Naphthalene trimethyl	9.70	200	ug/kg	J
	alkane	10.51	220	ug/kg	J
	alkane	10.94	280	ug/kg	J
	unknown acid	12.51	210	ug/kg	J
	unknown	14.29	320	ug/kg	J
	unknown	14.33	180	ug/kg	J
	unknown	15.12	170	ug/kg	J
	unknown	15.37	170	ug/kg	J
	unknown	18.29	240	ug/kg	J
	unknown	18.37	480	ug/kg	J
	unknown	18.56	440	ug/kg	J
	unknown	18.79	190	ug/kg	J
	Total TIC, Semi-Volatile		3480	ug/kg	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-7_7-9	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-3	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.8
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	15600	61	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Antimony	< 2.4	2.4	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	2.5	2.4	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Barium	70.0	24	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.53	0.24	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	< 0.61	0.61	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Calcium	1440	610	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	24.5	1.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cobalt	6.9	6.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	20.2	3.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Iron	17400	61	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	29.4	2.4	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Magnesium	3830	610	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Manganese	255	1.8	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	0.17	0.036	mg/kg	1	02/28/13	02/28/13	CS SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	23.7	4.8	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Potassium	2520	1200	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.4	2.4	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	< 0.61	0.61	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Sodium	< 1200	1200	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.2	1.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Vanadium	30.3	6.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	48.7	2.4	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

(1) Instrument QC Batch: MA30585

(2) Instrument QC Batch: MA30595

(3) Prep QC Batch: MP70073

(4) Prep QC Batch: MP70078

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-7_10-12		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-4		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 81.7
<b>Method:</b> SW846 8260B		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X133453.D	1	02/22/13	MS	n/a	n/a	VX5787
Run #2							

Run #1	Initial Weight
Run #1	4.9 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	34.5	12	2.1	ug/kg	
71-43-2	Benzene	0.51	1.2	0.15	ug/kg	J
74-97-5	Bromochloromethane	ND	6.2	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	6.2	0.13	ug/kg	
75-25-2	Bromoform	ND	6.2	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.2	0.34	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.0	ug/kg	
75-15-0	Carbon disulfide	0.39	6.2	0.15	ug/kg	J
56-23-5	Carbon tetrachloride	ND	6.2	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.2	0.13	ug/kg	
75-00-3	Chloroethane	ND	6.2	0.28	ug/kg	
67-66-3	Chloroform	ND	6.2	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.2	0.23	ug/kg	
110-82-7	Cyclohexane	ND	6.2	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.2	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.2	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.2	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.2	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.2	0.28	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.2	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.2	0.32	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.2	0.23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.2	0.30	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.2	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.2	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.2	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	160	74	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.33	ug/kg	
76-13-1	Freon 113	ND	6.2	0.54	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-7_10-12	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-4	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.7
<b>Method:</b> SW846 8260B	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.2	0.78	ug/kg	
98-82-8	Isopropylbenzene	ND	6.2	0.093	ug/kg	
79-20-9	Methyl Acetate	ND	6.2	3.2	ug/kg	
108-87-2	Methylcyclohexane	ND	6.2	0.21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	16.0	1.2	0.29	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.2	0.94	ug/kg	
75-09-2	Methylene chloride	ND	6.2	1.6	ug/kg	
100-42-5	Styrene	ND	6.2	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	0.16	ug/kg	
127-18-4	Tetrachloroethene	ND	6.2	0.21	ug/kg	
108-88-3	Toluene	0.35	1.2	0.13	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.2	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.2	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.2	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.2	0.37	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	0.18	ug/kg	
	m,p-Xylene	0.36	1.2	0.22	ug/kg	J
95-47-6	o-Xylene	ND	1.2	0.17	ug/kg	
1330-20-7	Xylene (total)	0.36	1.2	0.17	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
17060-07-0	1,2-Dichloroethane-D4	107%		70-122%
2037-26-5	Toluene-D8	102%		81-127%
460-00-4	4-Bromofluorobenzene	113%		66-132%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	3.22	1100	ug/kg	JNB
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> SB-7_10-12		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-4		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 81.7
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F20938.D	1	02/27/13	NAP	02/22/13	OP63786	EF5090
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	32.9 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	190	38	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	37	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	60	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	63	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	740	45	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	740	45	ug/kg	
95-48-7	2-Methylphenol	ND	74	42	ug/kg	
	3&4-Methylphenol	ND	74	47	ug/kg	
88-75-5	2-Nitrophenol	ND	190	39	ug/kg	
100-02-7	4-Nitrophenol	ND	370	63	ug/kg	
87-86-5	Pentachlorophenol	ND	370	64	ug/kg	
108-95-2	Phenol	ND	74	39	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	38	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	43	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	35	ug/kg	
83-32-9	Acenaphthene	ND	37	11	ug/kg	
208-96-8	Acenaphthylene	ND	37	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.5	ug/kg	
120-12-7	Anthracene	ND	37	13	ug/kg	
1912-24-9	Atrazine	ND	190	7.3	ug/kg	
56-55-3	Benzo(a)anthracene	17.7	37	12	ug/kg	J
50-32-8	Benzo(a)pyrene	18.0	37	11	ug/kg	J
205-99-2	Benzo(b)fluoranthene	16.6	37	12	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	37	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	37	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	74	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	74	22	ug/kg	
92-52-4	1,1'-Biphenyl	ND	74	4.3	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	74	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	74	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-7_10-12		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-4		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 81.7
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	74	12	ug/kg	
218-01-9	Chrysene	16.6	37	13	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	74	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	74	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	74	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	74	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	74	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	74	14	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	190	9.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	37	13	ug/kg	
132-64-9	Dibenzofuran	ND	74	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	74	8.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	74	18	ug/kg	
84-66-2	Diethyl phthalate	ND	74	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	74	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	105	74	33	ug/kg	
206-44-0	Fluoranthene	22.4	37	16	ug/kg	J
86-73-7	Fluorene	ND	37	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	74	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	38	ug/kg	
67-72-1	Hexachloroethane	ND	190	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	37	13	ug/kg	
78-59-1	Isophorone	ND	74	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	74	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	16	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	ND	37	10	ug/kg	
98-95-3	Nitrobenzene	ND	74	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	74	9.1	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	22	ug/kg	
85-01-8	Phenanthrene	ND	37	17	ug/kg	
129-00-0	Pyrene	22.7	37	14	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		21-116%
4165-62-2	Phenol-d5	51%		19-117%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.4  
4

## Report of Analysis

<b>Client Sample ID:</b> SB-7_10-12	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-4	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.7
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74%		24-136%
4165-60-0	Nitrobenzene-d5	49%		21-122%
321-60-8	2-Fluorobiphenyl	54%		30-117%
1718-51-0	Terphenyl-d14	73%		31-129%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifact	2.08	310	ug/kg	J
	system artifact	2.87	200	ug/kg	J
	system artifact/aldol-condensation	3.06	4900	ug/kg	J
	C3 alkyl benzene	3.89	210	ug/kg	J
	system artifact	3.93	540	ug/kg	J
	system artifact	4.07	260	ug/kg	J
	system artifact	4.52	150	ug/kg	J
	system artifact	4.70	350	ug/kg	J
	unknown acid	12.34	4000	ug/kg	J
	unknown acid	12.51	260	ug/kg	J
	unknown acid	13.20	15000	ug/kg	J
	unknown acid	13.32	1800	ug/kg	J
	unknown acid	13.36	410	ug/kg	J
	unknown acid	14.13	200	ug/kg	J
	unknown	14.29	260	ug/kg	J
	Total TIC, Semi-Volatile		22140	ug/kg	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-7_10-12	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-4	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.7
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	17500	62	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Antimony	< 2.5	2.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	4.9	2.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Barium	41.1	25	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.49	0.25	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	< 0.62	0.62	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Calcium	< 620	620	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	22.3	1.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cobalt	< 6.2	6.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	11.2	3.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Iron	18300	62	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	11.0	2.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Magnesium	3470	620	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Manganese	96.9	1.9	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	< 0.037	0.037	mg/kg	1	02/28/13	02/28/13	CS SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	12.1	5.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Potassium	1550	1200	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.5	2.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	< 0.62	0.62	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Sodium	< 1200	1200	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.2	1.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Vanadium	34.4	6.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	39.6	2.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

(1) Instrument QC Batch: MA30585

(2) Instrument QC Batch: MA30595

(3) Prep QC Batch: MP70073

(4) Prep QC Batch: MP70078

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-5_10-12		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-5		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 82.5
<b>Method:</b> SW846 8260B		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	D205681.D	1	02/21/13	ET	n/a	n/a	VD8390
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	8.4 g	10.0 ml	100 ul
Run #2			

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	830	140	ug/kg	
71-43-2	Benzene	ND	83	9.8	ug/kg	
74-97-5	Bromochloromethane	ND	410	22	ug/kg	
75-27-4	Bromodichloromethane	ND	410	8.7	ug/kg	
75-25-2	Bromoform	ND	410	12	ug/kg	
74-83-9	Bromomethane	ND	410	23	ug/kg	
78-93-3	2-Butanone (MEK)	ND	830	200	ug/kg	
75-15-0	Carbon disulfide	ND	410	9.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	410	11	ug/kg	
108-90-7	Chlorobenzene	ND	410	8.9	ug/kg	
75-00-3	Chloroethane	ND	410	19	ug/kg	
67-66-3	Chloroform	ND	410	6.8	ug/kg	
74-87-3	Chloromethane	ND	410	15	ug/kg	
110-82-7	Cyclohexane	ND	410	10	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	830	74	ug/kg	
124-48-1	Dibromochloromethane	ND	410	14	ug/kg	
106-93-4	1,2-Dibromoethane	ND	83	11	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	410	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	410	15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	410	15	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	410	19	ug/kg	
75-34-3	1,1-Dichloroethane	ND	410	11	ug/kg	
107-06-2	1,2-Dichloroethane	ND	83	11	ug/kg	
75-35-4	1,1-Dichloroethene	ND	410	21	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	410	15	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	410	20	ug/kg	
78-87-5	1,2-Dichloropropane	ND	410	13	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	410	12	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	410	13	ug/kg	
123-91-1	1,4-Dioxane	ND	10000	4900	ug/kg	
100-41-4	Ethylbenzene	ND	83	22	ug/kg	
76-13-1	Freon 113	ND	410	36	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SB-5_10-12	<b>Date Sampled:</b>	02/13/13
<b>Lab Sample ID:</b>	JB28972-5	<b>Date Received:</b>	02/15/13
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	82.5
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	410	51	ug/kg	
98-82-8	Isopropylbenzene	34.8	410	6.1	ug/kg	J
79-20-9	Methyl Acetate	ND	410	220	ug/kg	
108-87-2	Methylcyclohexane	102	410	14	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	83	19	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	410	62	ug/kg	
75-09-2	Methylene chloride	ND	410	110	ug/kg	
100-42-5	Styrene	ND	410	7.6	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	410	11	ug/kg	
127-18-4	Tetrachloroethene	ND	410	14	ug/kg	
108-88-3	Toluene	ND	83	8.7	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	410	14	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	410	12	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	410	8.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	410	14	ug/kg	
79-01-6	Trichloroethene	ND	410	14	ug/kg	
75-69-4	Trichlorofluoromethane	ND	410	25	ug/kg	
75-01-4	Vinyl chloride	ND	410	12	ug/kg	
	m,p-Xylene	ND	83	14	ug/kg	
95-47-6	o-Xylene	ND	83	12	ug/kg	
1330-20-7	Xylene (total)	ND	83	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%
17060-07-0	1,2-Dichloroethane-D4	103%		70-122%
2037-26-5	Toluene-D8	103%		81-127%
460-00-4	4-Bromofluorobenzene	98%		66-132%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	alkane	10.86	1200	ug/kg	J
	alkane	12.34	730	ug/kg	J
	alkane	16.44	880	ug/kg	J
	cyclohexane alkyl	16.90	1000	ug/kg	J
91-17-8	Naphthalene, decahydro-	17.54	1500	ug/kg	J
	C4 alkyl benzene	17.81	1100	ug/kg	J
	Naphthalene decahydro-methyl	18.23	800	ug/kg	J
	Naphthalene decahydro-methyl	18.48	1500	ug/kg	J
	unknown	18.78	800	ug/kg	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

<b>Client Sample ID:</b> SB-5_10-12	
<b>Lab Sample ID:</b> JB28972-5	<b>Date Sampled:</b> 02/13/13
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/15/13
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 82.5
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

**VOA TCL List (SOM0 1.1)**

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	19.46	1100	ug/kg	J
	unknown	19.74	1500	ug/kg	J
	unknown	19.83	930	ug/kg	J
	1H-Indene-dihydro-dimethyl	20.04	730	ug/kg	J
	unknown	20.72	980	ug/kg	J
	Naphthalene tetrahydro-dimethyl	20.96	1000	ug/kg	J
	Total TIC, Volatile		15750	ug/kg	J

(a) Dilution required due to sample matrix.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-5_10-12		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-5		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 82.5
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F20879.D	1	02/26/13	NAP	02/22/13	OP63786	EF5088
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	31.0 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	200	39	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	39	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	63	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	66	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	780	48	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	780	48	ug/kg	
95-48-7	2-Methylphenol	ND	78	45	ug/kg	
	3&4-Methylphenol	ND	78	50	ug/kg	
88-75-5	2-Nitrophenol	ND	200	41	ug/kg	
100-02-7	4-Nitrophenol	ND	390	66	ug/kg	
87-86-5	Pentachlorophenol	ND	390	67	ug/kg	
108-95-2	Phenol	ND	78	41	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	40	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	45	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	37	ug/kg	
83-32-9	Acenaphthene	52.3	39	11	ug/kg	
208-96-8	Acenaphthylene	ND	39	13	ug/kg	
98-86-2	Acetophenone	ND	200	6.9	ug/kg	
120-12-7	Anthracene	23.0	39	14	ug/kg	J
1912-24-9	Atrazine	ND	200	7.7	ug/kg	
56-55-3	Benzo(a)anthracene	ND	39	13	ug/kg	
50-32-8	Benzo(a)pyrene	ND	39	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	39	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	39	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	39	15	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	78	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	78	23	ug/kg	
92-52-4	1,1'-Biphenyl	ND	78	4.5	ug/kg	
100-52-7	Benzaldehyde	ND	200	9.0	ug/kg	
91-58-7	2-Chloronaphthalene	ND	78	12	ug/kg	
106-47-8	4-Chloroaniline	ND	200	13	ug/kg	
86-74-8	Carbazole	ND	78	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> SB-5_10-12	
<b>Lab Sample ID:</b> JB28972-5	<b>Date Sampled:</b> 02/13/13
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/15/13
<b>Method:</b> SW846 8270D SW846 3550C	<b>Percent Solids:</b> 82.5
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	78	12	ug/kg	
218-01-9	Chrysene	ND	39	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	78	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	78	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	78	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	78	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	78	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	78	15	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	200	9.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	39	13	ug/kg	
132-64-9	Dibenzofuran	49.3	78	12	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	78	8.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	78	19	ug/kg	
84-66-2	Diethyl phthalate	ND	78	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	78	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	134	78	35	ug/kg	
206-44-0	Fluoranthene	22.3	39	17	ug/kg	J
86-73-7	Fluorene	115	39	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	78	13	ug/kg	
87-68-3	Hexachlorobutadiene	ND	39	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	390	40	ug/kg	
67-72-1	Hexachloroethane	ND	200	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	39	14	ug/kg	
78-59-1	Isophorone	ND	78	11	ug/kg	
91-57-6	2-Methylnaphthalene	ND	78	22	ug/kg	
88-74-4	2-Nitroaniline	ND	200	17	ug/kg	
99-09-2	3-Nitroaniline	ND	200	16	ug/kg	
100-01-6	4-Nitroaniline	ND	200	15	ug/kg	
91-20-3	Naphthalene	ND	39	11	ug/kg	
98-95-3	Nitrobenzene	ND	78	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	78	9.5	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	23	ug/kg	
85-01-8	Phenanthrene	255	39	18	ug/kg	
129-00-0	Pyrene	75.9	39	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		21-116%
4165-62-2	Phenol-d5	56%		19-117%

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J = Indicates an estimated value

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N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-5_10-12	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-5	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 82.5
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	66%		24-136%
4165-60-0	Nitrobenzene-d5	54%		21-122%
321-60-8	2-Fluorobiphenyl	56%		30-117%
1718-51-0	Terphenyl-d14	65%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.09	620	ug/kg	J
	system artifact/aldol-condensation	3.09	7900	ug/kg	J
	system artifact	3.95	1100	ug/kg	J
	system artifact	4.71	490	ug/kg	J
	alkane	6.78	610	ug/kg	J
	Cyclohexane alkyl	7.08	400	ug/kg	J
	alkane	7.34	1400	ug/kg	J
	alkane	7.59	630	ug/kg	J
	alkane	7.76	450	ug/kg	J
	Naphthalene tetrahydro-dimethyl	7.89	900	ug/kg	J
	1H-Indene, -dihydro--trime	7.97	390	ug/kg	J
	Decahydro--pentamethylna	8.40	420	ug/kg	J
	alkane	8.49	670	ug/kg	J
	unknown	8.88	540	ug/kg	J
	alkane	9.03	1500	ug/kg	J
	unknown	9.20	550	ug/kg	J
	Naphthalene trimethyl	9.76	510	ug/kg	J
	Naphthalene trimethyl	9.90	690	ug/kg	J
	Naphthalene trimethyl	10.04	450	ug/kg	J
	alkane	10.14	630	ug/kg	J
	alkane	10.53	1400	ug/kg	J
	unknown	10.69	430	ug/kg	J
	alkane	10.91	490	ug/kg	J
	alkane	10.96	1800	ug/kg	J
	9H-Fluorene, -methyl-	11.17	440	ug/kg	J
	Total TIC, Semi-Volatile		15300	ug/kg	J

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N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-5_10-12	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-5	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 82.5
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	18600	63	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Antimony	< 2.5	2.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	4.9	2.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Barium	30.8	25	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.51	0.25	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	< 0.63	0.63	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Calcium	< 630	630	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	21.0	1.3	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cobalt	< 6.3	6.3	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	10.9	3.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Iron	20300	63	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	11.3	2.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Magnesium	3570	630	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Manganese	172	1.9	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	< 0.037	0.037	mg/kg	1	02/28/13	02/28/13	CS SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	13.1	5.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Potassium	1330	1300	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.5	2.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	< 0.63	0.63	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Sodium	< 1300	1300	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.3	1.3	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Vanadium	34.4	6.3	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	37.9	2.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

(1) Instrument QC Batch: MA30585

(2) Instrument QC Batch: MA30595

(3) Prep QC Batch: MP70073

(4) Prep QC Batch: MP70078

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b>	SB-5_10-12	<b>Date Sampled:</b>	02/13/13
<b>Lab Sample ID:</b>	JB28972-5R	<b>Date Received:</b>	02/15/13
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	82.5
<b>Method:</b>	SW846 8081B SW846 3546		
<b>Project:</b>	Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G88856.D	1	02/28/13	HQ	02/25/13	OP63866	G1G2918
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.79	0.36	ug/kg	
319-84-6	alpha-BHC	ND	0.79	0.24	ug/kg	
319-85-7	beta-BHC	ND	0.79	0.49	ug/kg	
319-86-8	delta-BHC	ND	0.79	0.39	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.79	0.39	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.79	0.29	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.79	0.55	ug/kg	
60-57-1	Dieldrin	ND	0.79	0.31	ug/kg	
72-54-8	4,4'-DDD	ND	0.79	0.43	ug/kg	
72-55-9	4,4'-DDE	ND	0.79	0.32	ug/kg	
50-29-3	4,4'-DDT	ND	0.79	0.39	ug/kg	
72-20-8	Endrin	ND	0.79	0.26	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.79	0.34	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.79	0.41	ug/kg	
959-98-8	Endosulfan-I	ND	0.79	0.30	ug/kg	
33213-65-9	Endosulfan-II	ND	0.79	0.47	ug/kg	
76-44-8	Heptachlor	ND	0.79	0.39	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.79	0.30	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.77	ug/kg	
53494-70-5	Endrin ketone	ND	0.79	0.32	ug/kg	
8001-35-2	Toxaphene	ND	20	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	37%		23-137%
877-09-8	Tetrachloro-m-xylene	51%		23-137%
2051-24-3	Decachlorobiphenyl	69%		22-160%
2051-24-3	Decachlorobiphenyl	71%		22-160%

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## Report of Analysis

<b>Client Sample ID:</b> SB-5_10-12		
<b>Lab Sample ID:</b> JB28972-5R		<b>Date Sampled:</b> 02/13/13
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 02/15/13
<b>Method:</b> SW846 8082A SW846 3546		<b>Percent Solids:</b> 82.5
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX130583.D	1	02/28/13	JR	02/25/13	OP63865	GXX4603
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	10	ug/kg	
11104-28-2	Aroclor 1221	ND	40	24	ug/kg	
11141-16-5	Aroclor 1232	ND	40	20	ug/kg	
53469-21-9	Aroclor 1242	ND	40	13	ug/kg	
12672-29-6	Aroclor 1248	ND	40	12	ug/kg	
11097-69-1	Aroclor 1254	ND	40	19	ug/kg	
11096-82-5	Aroclor 1260	ND	40	13	ug/kg	
11100-14-4	Aroclor 1268	ND	40	12	ug/kg	
37324-23-5	Aroclor 1262	ND	40	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	53%		22-141%
877-09-8	Tetrachloro-m-xylene	54%		22-141%
2051-24-3	Decachlorobiphenyl	73%		18-163%
2051-24-3	Decachlorobiphenyl	74%		18-163%

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## Report of Analysis

<b>Client Sample ID:</b> SB-5_13-15		
<b>Lab Sample ID:</b> JB28972-6		<b>Date Sampled:</b> 02/13/13
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 02/15/13
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> 78.7
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X133398.D	1	02/21/13	MS	n/a	n/a	VX5785
Run #2							

Run #1	Initial Weight
Run #1	5.4 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	21.6	12	2.0	ug/kg	
71-43-2	Benzene	ND	1.2	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	5.9	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	5.9	0.12	ug/kg	
75-25-2	Bromoform	ND	5.9	0.18	ug/kg	
74-83-9	Bromomethane	ND	5.9	0.32	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.9	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.9	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	5.9	0.13	ug/kg	
75-00-3	Chloroethane	ND	5.9	0.27	ug/kg	
67-66-3	Chloroform	ND	5.9	0.097	ug/kg	
74-87-3	Chloromethane	ND	5.9	0.22	ug/kg	
110-82-7	Cyclohexane	ND	5.9	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.9	0.19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.9	0.22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.9	0.22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.9	0.21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.9	0.27	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.9	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.9	0.30	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.9	0.22	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.9	0.28	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.9	0.18	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.9	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.9	0.18	ug/kg	
123-91-1	1,4-Dioxane	ND	150	70	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.31	ug/kg	
76-13-1	Freon 113	ND	5.9	0.51	ug/kg	

ND = Not detected MDL - Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

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N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-5_13-15	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-6	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 78.7
<b>Method:</b> SW846 8260B	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.9	0.73	ug/kg	
98-82-8	Isopropylbenzene	0.31	5.9	0.087	ug/kg	J
79-20-9	Methyl Acetate	ND	5.9	3.1	ug/kg	
108-87-2	Methylcyclohexane	0.81	5.9	0.20	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.28	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.9	0.88	ug/kg	
75-09-2	Methylene chloride	ND	5.9	1.5	ug/kg	
100-42-5	Styrene	ND	5.9	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.9	0.16	ug/kg	
127-18-4	Tetrachloroethene	ND	5.9	0.20	ug/kg	
108-88-3	Toluene	0.55	1.2	0.12	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	0.19	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	0.16	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.9	0.12	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.9	0.20	ug/kg	
79-01-6	Trichloroethene	ND	5.9	0.20	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.9	0.35	ug/kg	
75-01-4	Vinyl chloride	ND	5.9	0.17	ug/kg	
	m,p-Xylene	ND	1.2	0.20	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.16	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%
17060-07-0	1,2-Dichloroethane-D4	95%		70-122%
2037-26-5	Toluene-D8	101%		81-127%
460-00-4	4-Bromofluorobenzene	106%		66-132%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	3.22	910	ug/kg	JNB
	alkane	8.66	17	ug/kg	J
	alkane	10.39	64	ug/kg	J
	alkane	12.14	30	ug/kg	J
	alkane	12.34	27	ug/kg	J
	alkene	13.67	15	ug/kg	J
	C4 alkyl benzene	18.14	13	ug/kg	J
	C4 alkyl benzene	18.23	12	ug/kg	J
	unknown	18.54	15	ug/kg	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-5_13-15		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-6		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 78.7
<b>Method:</b> SW846 8260B		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

**VOA TCL List (SOM0 1.1)**

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		193	ug/kg	J

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.7  
4



## Report of Analysis

<b>Client Sample ID:</b>	SB-5_13-15	<b>Date Sampled:</b>	02/13/13
<b>Lab Sample ID:</b>	JB28972-6	<b>Date Received:</b>	02/15/13
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	78.7
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F20937.D	1	02/27/13	NAP	02/22/13	OP63786	EF5090
Run #2 <sup>a</sup>	F21080.D	1	03/04/13	NAP	03/02/13	OP64030	EF5096

Run #	Initial Weight	Final Volume
Run #1	33.0 g	1.0 ml
Run #2	30.5 g	1.0 ml

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	190	39	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	39	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	62	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	65	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	770	47	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	770	47	ug/kg	
95-48-7	2-Methylphenol	ND	77	44	ug/kg	
	3&4-Methylphenol	ND	77	49	ug/kg	
88-75-5	2-Nitrophenol	ND	190	41	ug/kg	
100-02-7	4-Nitrophenol	ND	390	65	ug/kg	
87-86-5	Pentachlorophenol	ND	390	66	ug/kg	
108-95-2	Phenol	ND	77	40	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	40	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	45	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	36	ug/kg	
83-32-9	Acenaphthene	ND	39	11	ug/kg	
208-96-8	Acenaphthylene	ND	39	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.8	ug/kg	
120-12-7	Anthracene	ND	39	13	ug/kg	
1912-24-9	Atrazine	ND	190	7.6	ug/kg	
56-55-3	Benzo(a)anthracene	ND	39	13	ug/kg	
50-32-8	Benzo(a)pyrene	ND	39	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	39	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	39	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	39	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	77	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	77	22	ug/kg	
92-52-4	1,1'-Biphenyl	ND	77	4.5	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.9	ug/kg	
91-58-7	2-Chloronaphthalene	ND	77	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	77	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-5_13-15	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-6	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 78.7
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	77	12	ug/kg	
218-01-9	Chrysene	ND	39	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	77	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	77	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	77	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	77	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	77	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	77	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	190	9.8	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	39	13	ug/kg	
132-64-9	Dibenzofuran	ND	77	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	77	8.5	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	77	19	ug/kg	
84-66-2	Diethyl phthalate	ND	77	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	77	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	91.5	77	34	ug/kg	
206-44-0	Fluoranthene	ND	39	17	ug/kg	
86-73-7	Fluorene	ND	39	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	77	13	ug/kg	
87-68-3	Hexachlorobutadiene	ND	39	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	390	39	ug/kg	
67-72-1	Hexachloroethane	ND	190	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	39	13	ug/kg	
78-59-1	Isophorone	ND	77	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	77	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	ND	39	11	ug/kg	
98-95-3	Nitrobenzene	ND	77	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	77	9.4	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	23	ug/kg	
85-01-8	Phenanthrene	ND	39	18	ug/kg	
129-00-0	Pyrene	ND	39	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	20% <sup>b</sup>	51%	21-116%
4165-62-2	Phenol-d5	24%	51%	19-117%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-5_13-15	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-6	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 78.7
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	54%	55%	24-136%
4165-60-0	Nitrobenzene-d5	18% <sup>b</sup>	49%	21-122%
321-60-8	2-Fluorobiphenyl	18% <sup>b</sup>	46%	30-117%
1718-51-0	Terphenyl-d14	72%	68%	31-129%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifact	2.07	190	ug/kg	J
	system artifact/aldol-condensation	3.06	2400	ug/kg	J
	system artifact	3.93	280	ug/kg	J
	system artifact	4.70	160	ug/kg	J
	unknown acid	12.51	220	ug/kg	J
	Total TIC, Semi-Volatile		220	ug/kg	J

(a) Confirmation run.

(b) Outside of in house control limits.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-5_13-15	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-6	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 78.7
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	12500	50	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Antimony	< 2.0	2.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	3.8	2.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Barium	25.4	20	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.54	0.20	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	< 0.50	0.50	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Calcium	1290	500	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	18.2	1.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cobalt	6.5	5.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	15.6	2.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Iron	18700	50	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	8.1	2.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Magnesium	3510	500	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Manganese	188	1.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	< 0.040	0.040	mg/kg	1	02/28/13	02/28/13	CS SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	16.1	4.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Potassium	1640	1000	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.0	2.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	< 0.50	0.50	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Sodium	< 1000	1000	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.0	1.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Vanadium	29.1	5.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	35.9	2.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

(1) Instrument QC Batch: MA30585

(2) Instrument QC Batch: MA30595

(3) Prep QC Batch: MP70073

(4) Prep QC Batch: MP70078

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> DUP_21313		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-7		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 76.7
<b>Method:</b> SW846 8260B		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X133454.D	1	02/23/13	MS	n/a	n/a	VX5787
Run #2							

Run #1	Initial Weight
Run #1	5.1 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	14.8	13	2.2	ug/kg	
71-43-2	Benzene	ND	1.3	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.4	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	6.4	0.13	ug/kg	
75-25-2	Bromoform	ND	6.4	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.4	0.35	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.1	ug/kg	
75-15-0	Carbon disulfide	1.6	6.4	0.15	ug/kg	J
56-23-5	Carbon tetrachloride	ND	6.4	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.4	0.29	ug/kg	
67-66-3	Chloroform	ND	6.4	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.4	0.24	ug/kg	
110-82-7	Cyclohexane	ND	6.4	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.4	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.4	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.4	0.24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.4	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.4	0.29	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	0.18	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.4	0.33	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.4	0.23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.4	0.30	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.4	0.20	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.4	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.4	0.20	ug/kg	
123-91-1	1,4-Dioxane	ND	160	76	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.34	ug/kg	
76-13-1	Freon 113	ND	6.4	0.55	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> DUP_21313	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-7	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 76.7
<b>Method:</b> SW846 8260B	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.4	0.80	ug/kg	
98-82-8	Isopropylbenzene	0.34	6.4	0.095	ug/kg	J
79-20-9	Methyl Acetate	ND	6.4	3.3	ug/kg	
108-87-2	Methylcyclohexane	0.49	6.4	0.22	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.30	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.4	0.96	ug/kg	
75-09-2	Methylene chloride	ND	6.4	1.6	ug/kg	
100-42-5	Styrene	ND	6.4	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	0.17	ug/kg	
127-18-4	Tetrachloroethene	ND	6.4	0.22	ug/kg	
108-88-3	Toluene	0.82	1.3	0.13	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	6.4	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.4	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.4	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.4	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.4	0.38	ug/kg	
75-01-4	Vinyl chloride	ND	6.4	0.18	ug/kg	
	m,p-Xylene	0.46	1.3	0.22	ug/kg	J
95-47-6	o-Xylene	ND	1.3	0.18	ug/kg	
1330-20-7	Xylene (total)	0.46	1.3	0.18	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
17060-07-0	1,2-Dichloroethane-D4	113%		70-122%
2037-26-5	Toluene-D8	102%		81-127%
460-00-4	4-Bromofluorobenzene	113%		66-132%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	3.21	760	ug/kg	JNB
	Total TIC, Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> DUP_21313		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-7		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 76.7
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F20995.D	1	03/01/13	NAP	02/22/13	OP63786	EF5092
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	32.9 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	200	40	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	40	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	64	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	67	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	790	48	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	790	48	ug/kg	
95-48-7	2-Methylphenol	ND	79	45	ug/kg	
	3&4-Methylphenol	ND	79	50	ug/kg	
88-75-5	2-Nitrophenol	ND	200	42	ug/kg	
100-02-7	4-Nitrophenol	ND	400	67	ug/kg	
87-86-5	Pentachlorophenol	ND	400	68	ug/kg	
108-95-2	Phenol	ND	79	42	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	41	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	46	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	37	ug/kg	
83-32-9	Acenaphthene	107	40	11	ug/kg	
208-96-8	Acenaphthylene	77.5	40	13	ug/kg	
98-86-2	Acetophenone	ND	200	7.0	ug/kg	
120-12-7	Anthracene	357	40	14	ug/kg	
1912-24-9	Atrazine	ND	200	7.8	ug/kg	
56-55-3	Benzo(a)anthracene	933	40	13	ug/kg	
50-32-8	Benzo(a)pyrene	1190	40	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	1130	40	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	826	40	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	717	40	15	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	79	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	79	23	ug/kg	
92-52-4	1,1'-Biphenyl	ND	79	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	200	9.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	79	12	ug/kg	
106-47-8	4-Chloroaniline	ND	200	13	ug/kg	
86-74-8	Carbazole	107	79	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	DUP_21313	<b>Date Sampled:</b>	02/13/13
<b>Lab Sample ID:</b>	JB28972-7	<b>Date Received:</b>	02/15/13
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	76.7
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	79	12	ug/kg	
218-01-9	Chrysene	1000	40	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	79	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	79	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	79	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	79	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	79	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	79	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	200	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	272	40	14	ug/kg	
132-64-9	Dibenzofuran	48.6	79	12	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	79	8.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	79	19	ug/kg	
84-66-2	Diethyl phthalate	ND	79	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	79	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	146	79	35	ug/kg	
206-44-0	Fluoranthene	2040	40	17	ug/kg	
86-73-7	Fluorene	122	40	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	79	13	ug/kg	
87-68-3	Hexachlorobutadiene	ND	40	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	400	40	ug/kg	
67-72-1	Hexachloroethane	ND	200	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	763	40	14	ug/kg	
78-59-1	Isophorone	ND	79	11	ug/kg	
91-57-6	2-Methylnaphthalene	24.9	79	22	ug/kg	J
88-74-4	2-Nitroaniline	ND	200	17	ug/kg	
99-09-2	3-Nitroaniline	ND	200	16	ug/kg	
100-01-6	4-Nitroaniline	ND	200	15	ug/kg	
91-20-3	Naphthalene	30.5	40	11	ug/kg	J
98-95-3	Nitrobenzene	ND	79	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	79	9.7	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	24	ug/kg	
85-01-8	Phenanthrene	1090	40	18	ug/kg	
129-00-0	Pyrene	1850	40	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		21-116%
4165-62-2	Phenol-d5	69%		19-117%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> DUP_21313	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-7	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 76.7
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	82%		24-136%
4165-60-0	Nitrobenzene-d5	65%		21-122%
321-60-8	2-Fluorobiphenyl	66%		30-117%
1718-51-0	Terphenyl-d14	73%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.06	420	ug/kg	J
	system artifact	2.85	270	ug/kg	J
	system artifact	2.93	160	ug/kg	J
	system artifact/aldol-condensation	3.05	6100	ug/kg	J
	C3 alkyl benzene	3.87	290	ug/kg	J
	system artifact	3.92	790	ug/kg	J
	system artifact	4.06	610	ug/kg	J
	system artifact	4.50	220	ug/kg	J
	system artifact	4.68	590	ug/kg	J
90-12-0	Naphthalene, 1-methyl-	7.82	180	ug/kg	JN
	Naphthalene dimethyl	8.79	190	ug/kg	J
	unknown	9.16	180	ug/kg	J
	Naphthalene trimethyl	9.72	200	ug/kg	J
	Naphthalene trimethyl	9.86	180	ug/kg	J
	unknown	12.12	160	ug/kg	J
	Anthracene, methyl	12.35	200	ug/kg	J
	Phenanthrene, -methyl-	12.39	240	ug/kg	J
	unknown	12.50	610	ug/kg	J
	unknown	12.75	160	ug/kg	J
	Fluoranthene, -methyl-	13.90	290	ug/kg	J
	Pyrene, -methyl-	14.02	200	ug/kg	J
	unknown PAH substance	14.61	210	ug/kg	J
	unknown PAH substance	16.03	220	ug/kg	J
	unknown PAH substance	16.21	580	ug/kg	J
	unknown PAH substance	17.91	220	ug/kg	J
	unknown PAH substance	18.29	160	ug/kg	J
	Total TIC, Semi-Volatile		4470	ug/kg	J

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N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> DUP_21313	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-7	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 76.7
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	12600	51	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Antimony	< 2.0	2.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	2.7	2.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Barium	145	20	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.31	0.20	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	< 0.51	0.51	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Calcium	1710	510	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	27.0	1.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cobalt	7.2	5.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	33.7	2.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Iron	19400	51	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	61.6	2.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Magnesium	5110	510	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Manganese	159	1.5	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	0.10	0.041	mg/kg	1	02/28/13	02/28/13	CS SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	20.2	4.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Potassium	6900	1000	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.0	2.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	< 0.51	0.51	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Sodium	2960	1000	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.0	1.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Vanadium	35.6	5.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	88.6	2.0	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

(1) Instrument QC Batch: MA30585

(2) Instrument QC Batch: MA30595

(3) Prep QC Batch: MP70073

(4) Prep QC Batch: MP70078

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FB_21313		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-8		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> AQ - Field Blank Soil		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A131877.D	1	02/19/13	CC	n/a	n/a	V2A5627
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> FB_21313	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-8	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> AQ - Field Blank Soil	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		81-121%
17060-07-0	1,2-Dichloroethane-D4	95%		74-127%
2037-26-5	Toluene-D8	94%		80-122%
460-00-4	4-Bromofluorobenzene	98%		78-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> FB_21313		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-8		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> AQ - Field Blank Soil		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P20285.D	1	02/21/13	ALS	02/20/13	OP63732	E2P898
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.97	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.99	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.0	ug/l	
	3&4-Methylphenol	ND	2.0	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	10	5.2	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.4	ug/l	
108-95-2	Phenol	ND	2.0	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.94	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.3	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.26	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.23	ug/l	
98-86-2	Acetophenone	ND	2.0	0.29	ug/l	
120-12-7	Anthracene	ND	1.0	0.29	ug/l	
1912-24-9	Atrazine	ND	5.0	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.0	3.3	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.46	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.32	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.51	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.36	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.29	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.30	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.36	ug/l	

ND = Not detected MDL - Method Detection Limit

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N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> FB_21313	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-8	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> AQ - Field Blank Soil	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.69	ug/l	
218-01-9	Chrysene	ND	1.0	0.29	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	1.2	2.0	0.31	ug/l	BJ
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.31	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.43	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.46	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.0	0.36	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.38	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.56	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.31	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.28	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.59	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.32	ug/l	
86-73-7	Fluorene	ND	1.0	0.28	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.34	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.51	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	7.1	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.37	ug/l	
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.38	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.7	ug/l	
91-20-3	Naphthalene	ND	1.0	0.26	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.30	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.31	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.29	ug/l	
129-00-0	Pyrene	ND	1.0	0.27	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		10-83%
4165-62-2	Phenol-d5	36%		10-74%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> FB_21313		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-8		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> AQ - Field Blank Soil		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	93%		24-148%
4165-60-0	Nitrobenzene-d5	93%		38-129%
321-60-8	2-Fluorobiphenyl	90%		42-117%
1718-51-0	Terphenyl-d14	101%		14-132%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.9  
4

## Report of Analysis

<b>Client Sample ID:</b> FB_21313	<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-8	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> AQ - Field Blank Soil	<b>Percent Solids:</b> n/a
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Antimony	< 6.0	6.0	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Arsenic	< 3.0	3.0	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Barium	< 200	200	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Beryllium	< 1.0	1.0	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Cadmium	< 3.0	3.0	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Calcium	< 5000	5000	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Chromium	< 10	10	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Cobalt	< 50	50	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Copper	< 10	10	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Iron	< 100	100	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Lead	< 3.0	3.0	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Magnesium	< 5000	5000	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Manganese	< 15	15	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Mercury	< 0.20	0.20	ug/l	1	02/27/13	02/27/13	JW SW846 7470A <sup>2</sup>	SW846 7470A <sup>4</sup>
Nickel	< 10	10	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Potassium	< 10000	10000	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Selenium	< 10	10	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Silver	< 10	10	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Sodium	< 10000	10000	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Thallium	< 2.0	2.0	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Vanadium	< 50	50	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Zinc	< 20	20	ug/l	1	02/18/13	02/20/13	ND SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>

(1) Instrument QC Batch: MA30523

(2) Instrument QC Batch: MA30579

(3) Prep QC Batch: MP69877

(4) Prep QC Batch: MP70061

RL = Reporting Limit



## Report of Analysis

<b>Client Sample ID:</b> FB_21313		<b>Date Sampled:</b> 02/13/13
<b>Lab Sample ID:</b> JB28972-8R		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> AQ - Field Blank Soil		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8081B SW846 3510C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	1G89113.D	1	03/05/13	DS	02/22/13	OP63832	G1G2926
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0079	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0023	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0017	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0016	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0028	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0026	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	119%		26-145%
877-09-8	Tetrachloro-m-xylene	118%		26-145%
2051-24-3	Decachlorobiphenyl	69%		10-141%
2051-24-3	Decachlorobiphenyl	66%		10-141%

(a) Sample extracted outside the holding time per client's request.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> FB_21313		
<b>Lab Sample ID:</b> JB28972-8R		<b>Date Sampled:</b> 02/13/13
<b>Matrix:</b> AQ - Field Blank Soil		<b>Date Received:</b> 02/15/13
<b>Method:</b> SW846 8082A SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	XX130403.D	1	02/23/13	JR	02/22/13	OP63831	GXX4600
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

## PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		27-144%
877-09-8	Tetrachloro-m-xylene	89%		27-144%
2051-24-3	Decachlorobiphenyl	63%		10-139%
2051-24-3	Decachlorobiphenyl	59%		10-139%

(a) Sample extracted outside the holding time per client's request.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-3_0-2		<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-9		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 93.0
<b>Method:</b> SW846 8260B		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A191926.D	1	02/22/13	OTR	n/a	n/a	VA7225
Run #2							

Run #1	Initial Weight
Run #1	4.1 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	28.9	13	2.2	ug/kg	
71-43-2	Benzene	ND	1.3	0.16	ug/kg	
74-97-5	Bromochloromethane	ND	6.6	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	6.6	0.14	ug/kg	
75-25-2	Bromoform	ND	6.6	0.20	ug/kg	
74-83-9	Bromomethane	ND	6.6	0.36	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.1	ug/kg	
75-15-0	Carbon disulfide	ND	6.6	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.6	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.6	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.6	0.30	ug/kg	
67-66-3	Chloroform	ND	6.6	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.6	0.24	ug/kg	
110-82-7	Cyclohexane	ND	6.6	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.6	0.22	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.6	0.25	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.6	0.25	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.6	0.23	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.6	0.30	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.6	0.18	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.6	0.34	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.6	0.24	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.6	0.31	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.6	0.20	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.6	0.18	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.6	0.20	ug/kg	
123-91-1	1,4-Dioxane	ND	160	78	ug/kg	
100-41-4	Ethylbenzene	1.3	1.3	0.34	ug/kg	
76-13-1	Freon 113	ND	6.6	0.56	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SB-3_0-2	<b>Date Sampled:</b>	02/14/13
<b>Lab Sample ID:</b>	JB28972-9	<b>Date Received:</b>	02/15/13
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	93.0
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.6	0.82	ug/kg	
98-82-8	Isopropylbenzene	0.31	6.6	0.097	ug/kg	J
79-20-9	Methyl Acetate	ND	6.6	3.4	ug/kg	
108-87-2	Methylcyclohexane	ND	6.6	0.22	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.31	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.6	0.98	ug/kg	
75-09-2	Methylene chloride	ND	6.6	1.7	ug/kg	
100-42-5	Styrene	ND	6.6	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.6	0.17	ug/kg	
127-18-4	Tetrachloroethene	0.68	6.6	0.23	ug/kg	J
108-88-3	Toluene	1.3	1.3	0.14	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.6	0.22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.6	0.18	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.6	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.6	0.23	ug/kg	
79-01-6	Trichloroethene	ND	6.6	0.23	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.6	0.39	ug/kg	
75-01-4	Vinyl chloride	ND	6.6	0.19	ug/kg	
	m,p-Xylene	0.71	1.3	0.23	ug/kg	J
95-47-6	o-Xylene	0.50	1.3	0.18	ug/kg	J
1330-20-7	Xylene (total)	1.2	1.3	0.18	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-130%
17060-07-0	1,2-Dichloroethane-D4	82%		70-122%
2037-26-5	Toluene-D8	106%		81-127%
460-00-4	4-Bromofluorobenzene	102%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-3_0-2		<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-9		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 93.0
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M91861.D	1	02/28/13	OYA	02/26/13	OP63878	EM3722
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	31.2 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	35	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	55	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	58	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	690	42	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	690	42	ug/kg	
95-48-7	2-Methylphenol	ND	69	39	ug/kg	
	3&4-Methylphenol	ND	69	44	ug/kg	
88-75-5	2-Nitrophenol	ND	170	37	ug/kg	
100-02-7	4-Nitrophenol	ND	340	58	ug/kg	
87-86-5	Pentachlorophenol	ND	340	59	ug/kg	
108-95-2	Phenol	ND	69	36	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	ND	34	10	ug/kg	
208-96-8	Acenaphthylene	ND	34	11	ug/kg	
98-86-2	Acetophenone	ND	170	6.1	ug/kg	
120-12-7	Anthracene	ND	34	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.8	ug/kg	
56-55-3	Benzo(a)anthracene	44.7	34	11	ug/kg	
50-32-8	Benzo(a)pyrene	42.9	34	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	57.4	34	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	73.9	34	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	23.6	34	13	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	69	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	69	4.0	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.9	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	69	16	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SB-3_0-2	<b>Date Sampled:</b>	02/14/13
<b>Lab Sample ID:</b>	JB28972-9	<b>Date Received:</b>	02/15/13
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	93.0
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	69	11	ug/kg	
218-01-9	Chrysene	48.5	34	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	69	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	69	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	69	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	69	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	69	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	8.8	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	12	ug/kg	
132-64-9	Dibenzofuran	ND	69	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	7.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	69	17	ug/kg	
84-66-2	Diethyl phthalate	ND	69	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	69	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	69	30	ug/kg	
206-44-0	Fluoranthene	60.5	34	15	ug/kg	
86-73-7	Fluorene	ND	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.6	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.6	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40.9	34	12	ug/kg	
78-59-1	Isophorone	ND	69	9.3	ug/kg	
91-57-6	2-Methylnaphthalene	59.7	69	19	ug/kg	J
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	19.5	34	9.4	ug/kg	J
98-95-3	Nitrobenzene	ND	69	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	8.4	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	21	ug/kg	
85-01-8	Phenanthrene	50.1	34	16	ug/kg	
129-00-0	Pyrene	64.4	34	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		21-116%
4165-62-2	Phenol-d5	36%		19-117%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-3_0-2		<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-9		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 93.0
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	52%		24-136%
4165-60-0	Nitrobenzene-d5	46%		21-122%
321-60-8	2-Fluorobiphenyl	48%		30-117%
1718-51-0	Terphenyl-d14	48%		31-129%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	2.70	270	ug/kg	J
	unknown	3.83	1400	ug/kg	J
	unknown	4.00	210	ug/kg	J
	unknown	4.36	310	ug/kg	J
	unknown	7.19	150	ug/kg	J
	unknown	7.72	160	ug/kg	J
	unknown	8.54	140	ug/kg	J
	Naphthalene dimethyl	9.51	230	ug/kg	J
	unknown	9.68	210	ug/kg	J
	alkane	9.80	160	ug/kg	J
10544-50-0	Cyclic octaatomic sulfur	15.20	150	ug/kg	JN
	Total TIC, Semi-Volatile		3120	ug/kg	J

ND = Not detected      MDL - Method Detection Limit  
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 N = Indicates presumptive evidence of a compound

4.11  
4

## Report of Analysis

<b>Client Sample ID:</b> SB-3_0-2	<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-9	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 93.0
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	7880	54	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Antimony	< 2.2	2.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	2.4	2.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Barium	81.2	22	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	< 0.22	0.22	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	< 0.54	0.54	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Calcium	42000	540	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	10.3	1.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cobalt	< 5.4	5.4	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	22.5	2.7	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Iron	13300	54	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	43.0	2.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Magnesium	26900	540	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Manganese	156	1.6	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	0.043	0.035	mg/kg	1	02/28/13	02/28/13	CS SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	12.4	4.3	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Potassium	4290	1100	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.2	2.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	< 0.54	0.54	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Sodium	< 1100	1100	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.1	1.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Vanadium	27.0	5.4	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	56.8	2.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

(1) Instrument QC Batch: MA30585

(2) Instrument QC Batch: MA30595

(3) Prep QC Batch: MP70073

(4) Prep QC Batch: MP70078

RL = Reporting Limit



## Report of Analysis

<b>Client Sample ID:</b> SB-3_0-2		<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-9R		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 93.0
<b>Method:</b> SW846 8081B SW846 3546		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G73302.D	1	03/02/13	HQ	02/25/13	OP63866	G3G2529
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.69	0.32	ug/kg	
319-84-6	alpha-BHC <sup>a</sup>	1.1	0.69	0.21	ug/kg	
319-85-7	beta-BHC <sup>a</sup>	1.2	0.69	0.43	ug/kg	
319-86-8	delta-BHC	1.5	0.69	0.34	ug/kg	
58-89-9	gamma-BHC (Lindane)	1.1	0.69	0.34	ug/kg	
5103-71-9	alpha-Chlordane <sup>b</sup>	1.4	0.69	0.26	ug/kg	
5103-74-2	gamma-Chlordane	2.0	0.69	0.48	ug/kg	
60-57-1	Dieldrin <sup>a</sup>	1.2	0.69	0.27	ug/kg	
72-54-8	4,4'-DDD	8.7	0.69	0.38	ug/kg	
72-55-9	4,4'-DDE	3.4	0.69	0.28	ug/kg	
50-29-3	4,4'-DDT <sup>a</sup>	2.5	0.69	0.34	ug/kg	
72-20-8	Endrin	ND	0.69	0.22	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.69	0.30	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.69	0.36	ug/kg	
959-98-8	Endosulfan-I	ND	0.69	0.26	ug/kg	
33213-65-9	Endosulfan-II	ND	0.69	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.69	0.34	ug/kg	
1024-57-3	Heptachlor epoxide	1.3	0.69	0.26	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.68	ug/kg	
53494-70-5	Endrin ketone	ND	0.69	0.28	ug/kg	
8001-35-2	Toxaphene	ND	17	8.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	55%		23-137%
877-09-8	Tetrachloro-m-xylene	52%		23-137%
2051-24-3	Decachlorobiphenyl	40%		22-160%
2051-24-3	Decachlorobiphenyl	37%		22-160%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

(b) Reported from 2nd signal due to interference on 1st signal.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-3_0-2		<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-9R		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 93.0
<b>Method:</b> SW846 8082A SW846 3546		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX130581.D	1	02/28/13	JR	02/25/13	OP63865	GXX4603
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	16	ug/kg	
11096-82-5	Aroclor 1260	68.0	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		22-141%
877-09-8	Tetrachloro-m-xylene	79%		22-141%
2051-24-3	Decachlorobiphenyl	76%		18-163%
2051-24-3	Decachlorobiphenyl	91%		18-163%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.12  
4

## Report of Analysis

<b>Client Sample ID:</b> SB-4_0-2		<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-10		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 92.0
<b>Method:</b> SW846 8260B		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	D205684.D	1	02/21/13	ET	n/a	n/a	VD8390
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.0 g	10.0 ml	100 ul
Run #2			

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	650	110	ug/kg	
71-43-2	Benzene	25.4	65	7.7	ug/kg	J
74-97-5	Bromochloromethane	ND	320	17	ug/kg	
75-27-4	Bromodichloromethane	ND	320	6.8	ug/kg	
75-25-2	Bromoform	ND	320	9.8	ug/kg	
74-83-9	Bromomethane	ND	320	18	ug/kg	
78-93-3	2-Butanone (MEK)	ND	650	150	ug/kg	
75-15-0	Carbon disulfide	ND	320	7.6	ug/kg	
56-23-5	Carbon tetrachloride	ND	320	8.6	ug/kg	
108-90-7	Chlorobenzene	445	320	7.0	ug/kg	
75-00-3	Chloroethane	ND	320	15	ug/kg	
67-66-3	Chloroform	ND	320	5.3	ug/kg	
74-87-3	Chloromethane	ND	320	12	ug/kg	
110-82-7	Cyclohexane	285	320	8.0	ug/kg	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	650	58	ug/kg	
124-48-1	Dibromochloromethane	ND	320	11	ug/kg	
106-93-4	1,2-Dibromoethane	ND	65	8.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	59.3	320	12	ug/kg	J
541-73-1	1,3-Dichlorobenzene	13.8	320	12	ug/kg	J
106-46-7	1,4-Dichlorobenzene	110	320	11	ug/kg	J
75-71-8	Dichlorodifluoromethane	ND	320	15	ug/kg	
75-34-3	1,1-Dichloroethane	ND	320	8.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	65	8.7	ug/kg	
75-35-4	1,1-Dichloroethene	ND	320	17	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	320	12	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	320	15	ug/kg	
78-87-5	1,2-Dichloropropane	ND	320	10	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	320	9.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	320	10	ug/kg	
123-91-1	1,4-Dioxane	ND	8100	3900	ug/kg	
100-41-4	Ethylbenzene	149	65	17	ug/kg	
76-13-1	Freon 113	ND	320	28	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SB-4_0-2	<b>Date Sampled:</b>	02/14/13
<b>Lab Sample ID:</b>	JB28972-10	<b>Date Received:</b>	02/15/13
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	92.0
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	320	40	ug/kg	
98-82-8	Isopropylbenzene	695	320	4.8	ug/kg	
79-20-9	Methyl Acetate	ND	320	170	ug/kg	
108-87-2	Methylcyclohexane	3260	320	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	65	15	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	320	49	ug/kg	
75-09-2	Methylene chloride	ND	320	82	ug/kg	
100-42-5	Styrene	ND	320	5.9	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	320	8.5	ug/kg	
127-18-4	Tetrachloroethene	ND	320	11	ug/kg	
108-88-3	Toluene	148	65	6.8	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	320	11	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	320	9.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	320	6.9	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	320	11	ug/kg	
79-01-6	Trichloroethene	ND	320	11	ug/kg	
75-69-4	Trichlorofluoromethane	ND	320	19	ug/kg	
75-01-4	Vinyl chloride	ND	320	9.3	ug/kg	
	m,p-Xylene	665	65	11	ug/kg	
95-47-6	o-Xylene	257	65	9.0	ug/kg	
1330-20-7	Xylene (total)	922	65	9.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-130%
17060-07-0	1,2-Dichloroethane-D4	103%		70-122%
2037-26-5	Toluene-D8	107%		81-127%
460-00-4	4-Bromofluorobenzene	102%		66-132%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	alkane	12.34	5800	ug/kg	J
	alkane	14.09	3500	ug/kg	J
	alkane	14.23	3500	ug/kg	J
108-67-8	Benzene, 1,3,5-trimethyl-	16.20	4400	ug/kg	JN
	C4 alkyl benzene	17.30	5300	ug/kg	J
	Indane + C4 alkyl benzene	17.40	15000	ug/kg	J
	C4 alkyl benzene	17.82	14000	ug/kg	J
	1H-indene-dihydro-methyl	17.94	4800	ug/kg	J
	1H-indene-dihydro-methyl	18.01	6900	ug/kg	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-4_0-2	
<b>Lab Sample ID:</b> JB28972-10	<b>Date Sampled:</b> 02/14/13
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/15/13
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 92.0
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## VOA TCL List (SOM0 1.1)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C4 alkyl benzene	18.26	8700	ug/kg	J
	C4 alkyl benzene	18.33	6800	ug/kg	J
	C5 alkyl benzene	18.37	4700	ug/kg	J
	1H-indene-dihydro-methyl	18.68	10000	ug/kg	J
	1H-indene-dihydro-methyl	18.89	11000	ug/kg	J
	dihydro-dimethylindene + C5 alkylbenzene	19.21	7600	ug/kg	J
	Total TIC, Volatile		112000	ug/kg	J

(a) Dilution required due to matrix interference.

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-4_0-2		<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-10		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 92.0
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F21039.D	2	03/02/13	NAP	02/26/13	OP63878	EF5094
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	31.6 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	340	69	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	340	69	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	340	110	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	340	120	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1400	84	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1400	84	ug/kg	
95-48-7	2-Methylphenol	ND	140	78	ug/kg	
	3&4-Methylphenol	ND	140	87	ug/kg	
88-75-5	2-Nitrophenol	ND	340	73	ug/kg	
100-02-7	4-Nitrophenol	ND	690	120	ug/kg	
87-86-5	Pentachlorophenol	ND	690	120	ug/kg	
108-95-2	Phenol	ND	140	72	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	340	71	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	340	80	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	340	65	ug/kg	
83-32-9	Acenaphthene	331	69	20	ug/kg	
208-96-8	Acenaphthylene	125	69	22	ug/kg	
98-86-2	Acetophenone	ND	340	12	ug/kg	
120-12-7	Anthracene	553	69	24	ug/kg	
1912-24-9	Atrazine	ND	340	14	ug/kg	
56-55-3	Benzo(a)anthracene	1050	69	22	ug/kg	
50-32-8	Benzo(a)pyrene	977	69	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	1060	69	23	ug/kg	
191-24-2	Benzo(g,h,i)perylene	627	69	26	ug/kg	
207-08-9	Benzo(k)fluoranthene	584	69	26	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	140	25	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	140	40	ug/kg	
92-52-4	1,1'-Biphenyl	ND	140	8.0	ug/kg	
100-52-7	Benzaldehyde	ND	340	16	ug/kg	
91-58-7	2-Chloronaphthalene	ND	140	21	ug/kg	
106-47-8	4-Chloroaniline	ND	340	22	ug/kg	
86-74-8	Carbazole	191	140	32	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-4_0-2		<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-10		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 92.0
<b>Method:</b> SW846 8270D SW846 3550C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	140	22	ug/kg	
218-01-9	Chrysene	1090	69	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	140	28	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	140	21	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	140	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	140	21	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	140	30	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	140	26	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	340	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	172	69	23	ug/kg	
132-64-9	Dibenzofuran	160	140	20	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	140	15	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	140	34	ug/kg	
84-66-2	Diethyl phthalate	ND	140	23	ug/kg	
131-11-3	Dimethyl phthalate	ND	140	24	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	577	140	61	ug/kg	
206-44-0	Fluoranthene	3000	69	30	ug/kg	
86-73-7	Fluorene	407	69	23	ug/kg	
118-74-1	Hexachlorobenzene	ND	140	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	69	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	690	70	ug/kg	
67-72-1	Hexachloroethane	ND	340	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	517	69	24	ug/kg	
78-59-1	Isophorone	ND	140	19	ug/kg	
91-57-6	2-Methylnaphthalene	1970	140	38	ug/kg	
88-74-4	2-Nitroaniline	ND	340	30	ug/kg	
99-09-2	3-Nitroaniline	ND	340	28	ug/kg	
100-01-6	4-Nitroaniline	ND	340	27	ug/kg	
91-20-3	Naphthalene	ND	69	19	ug/kg	
98-95-3	Nitrobenzene	ND	140	20	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	140	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	340	41	ug/kg	
85-01-8	Phenanthrene	2000	69	31	ug/kg	
129-00-0	Pyrene	2350	69	26	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	340	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		21-116%
4165-62-2	Phenol-d5	53%		19-117%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SB-4_0-2	<b>Date Sampled:</b>	02/14/13
<b>Lab Sample ID:</b>	JB28972-10	<b>Date Received:</b>	02/15/13
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	92.0
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

## ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	54%		24-136%
4165-60-0	Nitrobenzene-d5	53%		21-122%
321-60-8	2-Fluorobiphenyl	52%		30-117%
1718-51-0	Terphenyl-d14	52%		31-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	4.58	2800	ug/kg	J
	C4 alkyl benzene	5.14	3400	ug/kg	J
	C4 alkyl benzene	5.21	2500	ug/kg	J
	C4 alkyl benzene	5.23	5400	ug/kg	J
	C4 alkyl benzene	5.44	3000	ug/kg	J
	C4 alkyl benzene	5.85	6300	ug/kg	J
	C4 alkyl benzene	5.89	5600	ug/kg	J
	-Phenyl--butene	6.10	7500	ug/kg	J
	Benzene, -ethenyl--ethyl-	6.22	9800	ug/kg	J
	C5 alkyl benzene	6.42	2900	ug/kg	J
	unknown	6.65	2900	ug/kg	J
	unknown	6.69	2500	ug/kg	J
	alkane	6.73	2600	ug/kg	J
	unknown	7.05	4300	ug/kg	J
	alkane	7.30	5200	ug/kg	J
90-12-0	Naphthalene, 1-methyl-	7.81	4900	ug/kg	JN
	alkane	8.98	3400	ug/kg	J
	Decahydro--pentamethylna	9.15	2300	ug/kg	J
	Naphthalene trimethyl	9.85	2200	ug/kg	J
	unknown	13.00	2200	ug/kg	J
	unknown	13.08	3000	ug/kg	J
	alkane	14.72	4100	ug/kg	J
	alkane	15.23	3500	ug/kg	J
	unknown	17.01	2800	ug/kg	J
	unknown	17.41	6200	ug/kg	J
	Total TIC, Semi-Volatile		101300	ug/kg	J

ND = Not detected MDL - Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> SB-4_0-2	<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-10	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.0
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	8830	53	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Antimony	< 2.1	2.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	11.3	2.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Barium	175	21	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.30	0.21	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	1.5	0.53	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Calcium	15200	530	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	23.4	1.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cobalt	5.8	5.3	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	65.8	2.7	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Iron	16600	53	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	423	2.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Magnesium	11000	530	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Manganese	172	1.6	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	0.11	0.031	mg/kg	1	02/28/13	02/28/13	CS SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	20.6	4.3	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Potassium	3940	1100	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.1	2.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	< 0.53	0.53	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Sodium	< 1100	1100	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.1	1.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Vanadium	35.2	5.3	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	116	2.1	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

(1) Instrument QC Batch: MA30585

(2) Instrument QC Batch: MA30595

(3) Prep QC Batch: MP70073

(4) Prep QC Batch: MP70078

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FB_21413		<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-11		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> AQ - Field Blank Soil		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A131878.D	1	02/19/13	CC	n/a	n/a	V2A5627
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	FB_21413	<b>Date Sampled:</b>	02/14/13
<b>Lab Sample ID:</b>	JB28972-11	<b>Date Received:</b>	02/15/13
<b>Matrix:</b>	AQ - Field Blank Soil	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		81-121%
17060-07-0	1,2-Dichloroethane-D4	95%		74-127%
2037-26-5	Toluene-D8	94%		80-122%
460-00-4	4-Bromofluorobenzene	98%		78-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> FB_21413		<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-11		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> AQ - Field Blank Soil		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P20286.D	1	02/21/13	ALS	02/20/13	OP63732	E2P898
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.97	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.99	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.0	ug/l	
	3&4-Methylphenol	ND	2.0	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	10	5.2	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.4	ug/l	
108-95-2	Phenol	ND	2.0	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.94	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.3	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.26	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.23	ug/l	
98-86-2	Acetophenone	ND	2.0	0.29	ug/l	
120-12-7	Anthracene	ND	1.0	0.29	ug/l	
1912-24-9	Atrazine	ND	5.0	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.0	3.3	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.46	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.32	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.51	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.36	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.29	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.30	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.36	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> FB_21413	<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-11	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> AQ - Field Blank Soil	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.69	ug/l	
218-01-9	Chrysene	ND	1.0	0.29	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.31	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.43	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.46	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	5.0	0.36	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.38	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.56	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.31	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.28	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.59	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.32	ug/l	
86-73-7	Fluorene	ND	1.0	0.28	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.34	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.51	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	7.1	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.37	ug/l	
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.38	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.7	ug/l	
91-20-3	Naphthalene	ND	1.0	0.26	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.30	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.31	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.29	ug/l	
129-00-0	Pyrene	ND	1.0	0.27	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		10-83%
4165-62-2	Phenol-d5	32%		10-74%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> FB_21413		<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-11		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> AQ - Field Blank Soil		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

**ABN TCL List (SOM0 1.1)**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	83%		24-148%
4165-60-0	Nitrobenzene-d5	84%		38-129%
321-60-8	2-Fluorobiphenyl	81%		42-117%
1718-51-0	Terphenyl-d14	96%		14-132%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.14  
4

## Report of Analysis

<b>Client Sample ID:</b> FB_21413	<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-11	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> AQ - Field Blank Soil	<b>Percent Solids:</b> n/a
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Antimony	< 6.0	6.0	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Arsenic	< 3.0	3.0	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Barium	< 200	200	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Beryllium	< 1.0	1.0	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Cadmium	< 3.0	3.0	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Calcium	< 5000	5000	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Chromium	< 10	10	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Cobalt	< 50	50	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Copper	< 10	10	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Iron	< 100	100	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Lead	< 3.0	3.0	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Magnesium	< 5000	5000	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Manganese	< 15	15	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Mercury	< 0.20	0.20	ug/l	1	02/27/13	02/27/13 JW	SW846 7470A <sup>2</sup>	SW846 7470A <sup>4</sup>
Nickel	< 10	10	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Potassium	< 10000	10000	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Selenium	< 10	10	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Silver	< 10	10	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Sodium	< 10000	10000	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Thallium	< 2.0	2.0	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Vanadium	< 50	50	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Zinc	< 20	20	ug/l	1	02/18/13	02/20/13 ND	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>

(1) Instrument QC Batch: MA30523

(2) Instrument QC Batch: MA30579

(3) Prep QC Batch: MP69877

(4) Prep QC Batch: MP70061

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> FB_21413		
<b>Lab Sample ID:</b> JB28972-11R		<b>Date Sampled:</b> 02/14/13
<b>Matrix:</b> AQ - Field Blank Soil		<b>Date Received:</b> 02/15/13
<b>Method:</b> SW846 8081B SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	1G89114.D	1	03/05/13	DS	02/22/13	OP63832	G1G2926
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

## Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0079	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0023	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0017	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0016	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0028	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0026	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		26-145%
877-09-8	Tetrachloro-m-xylene	90%		26-145%
2051-24-3	Decachlorobiphenyl	52%		10-141%
2051-24-3	Decachlorobiphenyl	56%		10-141%

(a) Sample extracted outside the holding time per client's request.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> FB_21413		<b>Date Sampled:</b> 02/14/13
<b>Lab Sample ID:</b> JB28972-11R		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> AQ - Field Blank Soil		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8082A SW846 3510C		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	XX130404.D	1	02/23/13	JR	02/22/13	OP63831	GXX4600
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		27-144%
877-09-8	Tetrachloro-m-xylene	100%		27-144%
2051-24-3	Decachlorobiphenyl	72%		10-139%
2051-24-3	Decachlorobiphenyl	68%		10-139%

(a) Sample extracted outside the holding time per client's request.

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ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TRIP BLANK		<b>Date Sampled:</b> 02/15/13
<b>Lab Sample ID:</b> JB28972-12		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> AQ - Trip Blank Soil		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A131879.D	1	02/19/13	CC	n/a	n/a	V2A5627
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	TRIP BLANK	<b>Date Sampled:</b>	02/15/13
<b>Lab Sample ID:</b>	JB28972-12	<b>Date Received:</b>	02/15/13
<b>Matrix:</b>	AQ - Trip Blank Soil	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		81-121%
17060-07-0	1,2-Dichloroethane-D4	95%		74-127%
2037-26-5	Toluene-D8	94%		80-122%
460-00-4	4-Bromofluorobenzene	98%		78-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SBA-1_0-2		<b>Date Sampled:</b> 02/15/13
<b>Lab Sample ID:</b> JB28972-13		<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 86.9
<b>Method:</b> SW846 8260B		
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A191980.D	1	02/25/13	OTR	n/a	n/a	VA7227
Run #2							

Run #1	Initial Weight
Run #1	4.6 g
Run #2	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	2.1	ug/kg	
71-43-2	Benzene	ND	1.3	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.3	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	6.3	0.13	ug/kg	
75-25-2	Bromoform	ND	6.3	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.3	0.34	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.3	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.3	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.3	0.14	ug/kg	
75-00-3	Chloroethane	ND	6.3	0.28	ug/kg	
67-66-3	Chloroform	ND	6.3	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.3	0.23	ug/kg	
110-82-7	Cyclohexane	ND	6.3	0.16	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.3	0.21	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.3	0.24	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.3	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.3	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.3	0.29	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.3	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.3	0.32	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.3	0.23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.3	0.30	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.3	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.3	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.3	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	160	74	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.33	ug/kg	
76-13-1	Freon 113	ND	6.3	0.54	ug/kg	

ND = Not detected MDL - Method Detection Limit

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J = Indicates an estimated value

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N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SBA-1_0-2	<b>Date Sampled:</b> 02/15/13
<b>Lab Sample ID:</b> JB28972-13	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 86.9
<b>Method:</b> SW846 8260B	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.3	0.78	ug/kg	
98-82-8	Isopropylbenzene	ND	6.3	0.093	ug/kg	
79-20-9	Methyl Acetate	ND	6.3	3.3	ug/kg	
108-87-2	Methylcyclohexane	ND	6.3	0.21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.29	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.3	0.94	ug/kg	
75-09-2	Methylene chloride	ND	6.3	1.6	ug/kg	
100-42-5	Styrene	ND	6.3	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.3	0.17	ug/kg	
127-18-4	Tetrachloroethene	ND	6.3	0.22	ug/kg	
108-88-3	Toluene	ND	1.3	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.3	0.21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.3	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.3	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.3	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.3	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.3	0.37	ug/kg	
75-01-4	Vinyl chloride	ND	6.3	0.18	ug/kg	
	m,p-Xylene	ND	1.3	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.17	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-130%
17060-07-0	1,2-Dichloroethane-D4	78%		70-122%
2037-26-5	Toluene-D8	106%		81-127%
460-00-4	4-Bromofluorobenzene	102%		66-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

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## Report of Analysis

<b>Client Sample ID:</b>	SBA-1_0-2	<b>Date Sampled:</b>	02/15/13
<b>Lab Sample ID:</b>	JB28972-13	<b>Date Received:</b>	02/15/13
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	86.9
<b>Method:</b>	SW846 8270D SW846 3550C		
<b>Project:</b>	Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M91855.D	1	02/28/13	OYA	02/26/13	OP63878	EM3722
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	31.2 g	1.0 ml
Run #2		

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	180	37	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	37	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	59	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	62	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	740	45	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	740	45	ug/kg	
95-48-7	2-Methylphenol	ND	74	42	ug/kg	
	3&4-Methylphenol	ND	74	47	ug/kg	
88-75-5	2-Nitrophenol	ND	180	39	ug/kg	
100-02-7	4-Nitrophenol	ND	370	62	ug/kg	
87-86-5	Pentachlorophenol	ND	370	63	ug/kg	
108-95-2	Phenol	ND	74	39	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	38	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	43	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	35	ug/kg	
83-32-9	Acenaphthene	ND	37	11	ug/kg	
208-96-8	Acenaphthylene	ND	37	12	ug/kg	
98-86-2	Acetophenone	ND	180	6.5	ug/kg	
120-12-7	Anthracene	ND	37	13	ug/kg	
1912-24-9	Atrazine	ND	180	7.3	ug/kg	
56-55-3	Benzo(a)anthracene	28.3	37	12	ug/kg	J
50-32-8	Benzo(a)pyrene	22.4	37	11	ug/kg	J
205-99-2	Benzo(b)fluoranthene	34.1	37	12	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	19.4	37	14	ug/kg	J
207-08-9	Benzo(k)fluoranthene	14.5	37	14	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	74	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	74	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	74	4.3	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.5	ug/kg	
91-58-7	2-Chloronaphthalene	ND	74	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	ND	74	17	ug/kg	

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## Report of Analysis

<b>Client Sample ID:</b> SBA-1_0-2	<b>Date Sampled:</b> 02/15/13
<b>Lab Sample ID:</b> JB28972-13	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 86.9
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	74	12	ug/kg	
218-01-9	Chrysene	25.1	37	12	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	74	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	74	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	74	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	74	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	74	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	74	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	37	13	ug/kg	
132-64-9	Dibenzofuran	ND	74	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	74	8.2	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	74	18	ug/kg	
84-66-2	Diethyl phthalate	ND	74	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	74	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	74	33	ug/kg	
206-44-0	Fluoranthene	46.0	37	16	ug/kg	
86-73-7	Fluorene	ND	37	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	74	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	38	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20.0	37	13	ug/kg	J
78-59-1	Isophorone	ND	74	9.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	74	21	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	15	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	37	10	ug/kg	
98-95-3	Nitrobenzene	ND	74	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	74	9.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	22	ug/kg	
85-01-8	Phenanthrene	ND	37	17	ug/kg	
129-00-0	Pyrene	46.8	37	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		21-116%
4165-62-2	Phenol-d5	31%		19-117%

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## Report of Analysis

<b>Client Sample ID:</b> SBA-1_0-2	<b>Date Sampled:</b> 02/15/13
<b>Lab Sample ID:</b> JB28972-13	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 86.9
<b>Method:</b> SW846 8270D SW846 3550C	
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	62%		24-136%
4165-60-0	Nitrobenzene-d5	37%		21-122%
321-60-8	2-Fluorobiphenyl	47%		30-117%
1718-51-0	Terphenyl-d14	60%		31-129%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	2.69	220	ug/kg	J
	unknown	18.72	320	ug/kg	J
	Total TIC, Semi-Volatile		320	ug/kg	J

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 RL = Reporting Limit  
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 N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> SBA-1_0-2	<b>Date Sampled:</b> 02/15/13
<b>Lab Sample ID:</b> JB28972-13	<b>Date Received:</b> 02/15/13
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 86.9
<b>Project:</b> Echo Bay Redevelopment - City Yard, 224 East Main Street, New Rochelle, NY	

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	16900	58	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Antimony	< 2.3	2.3	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Arsenic	< 2.3	2.3	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Barium	149	23	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Beryllium	0.46	0.23	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cadmium	< 0.58	0.58	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Calcium	8290	580	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Chromium	25.3	1.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Cobalt	8.9	5.8	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Copper	37.1	2.9	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Iron	23500	58	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Lead	14.3	2.3	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Magnesium	5710	580	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Manganese	301	1.7	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Mercury	< 0.035	0.035	mg/kg	1	02/28/13	02/28/13	CS SW846 7471B <sup>1</sup>	SW846 7471B <sup>3</sup>
Nickel	18.9	4.6	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Potassium	7220	1200	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Selenium	< 2.3	2.3	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Silver	< 0.58	0.58	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Sodium	< 1200	1200	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Thallium	< 1.2	1.2	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Vanadium	39.7	5.8	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>
Zinc	95.7	2.3	mg/kg	1	02/28/13	03/01/13	ND SW846 6010C <sup>2</sup>	SW846 3050B <sup>4</sup>

(1) Instrument QC Batch: MA30585

(2) Instrument QC Batch: MA30595

(3) Prep QC Batch: MP70073

(4) Prep QC Batch: MP70078

RL = Reporting Limit

## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody

2235 Route 130, Dayton, NJ 08810  
TEL: 732-329-0200 FAX: 732-329-3499/3480  
www.accutest.com

FED-EX Tracking #  
Accutest Quote #  
Special Order Control # **NY-1130/2013-17**  
Accutest Job # **JB28972**

Client / Reporting Information			Project Information				Requested Analysis (see TEST CODE sheet)														Matrix Codes					
Company Name <b>Houx Associates Inc.</b>			Project Name <b>Echo Bay Redevelopment</b>				<b>AB8270TCLL11+, MTA-</b> <b>V8260TCLL11+</b> <b>Pest/PCB</b>														DW - Drinking Water GW - Ground Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wire FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank					
Street Address <b>209 Shafter St</b>			Street <b>224 Main St</b>																			LAB USE ONLY				
City, State, Zip <b>Islandia NY</b>			Billing Information (if different from Report to) Company Name <b>New Rochelle NY</b>																							
Project Contact <b>Bob Kovacs</b>			Street Address																							
Phone # <b>631.232.2600</b>			Client Purchase Order #																							
Sample(s) Name(s) <b>Altoffmann</b>			Project Manager																							
Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vol #	Collection				Number of preserved Bottles																			
			Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HN03	H2SO4	None	DI Water	MEOH	ENCORE											
-1	SB-16-8-10		2/13/13	0930	AH	SO	4						X													
-2	SB-16-16-18		2/13/13	1015	AH	SO	3						X												E78	
-3	SB-7-7-9		2/13/13	1100	AH	SO	4						X												1962	
-4	SB-7-10-12		2/13/13	1130	AH	SO	3						X												M374	
-5	SB-5-10-12		2/13/13	1400	AH	SO	4						X												E20	
-6	SB-5-13-15		2/13/13	1430	AH	SO	3						X												A30	
-7	DUP-21313		2/13/13	1030	AH	SO	3						X												20996	
-8	FB-21313		2/13/13	1200	AH	FB	8	3	1	4			X													
-9	SB-3-0-2		2/14/13	1130	AH	SO	4						X													
-10	SB-4-0-2		2/14/13	1200	AH	SO	4						X													
-11	FB-21413		2/14/13	1000	AH	FB	8	3	1	4			X													
-12	Trip Blank		2/15/13	-	TB	2	X						X													
Turnaround Time (Business days)			Approved By (Accutest PM) / Date:				Data Deliverable Information														Comments / Special Instructions					
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> other			<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C" <input type="checkbox"/> NYASP Category A <input checked="" type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____				Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data														Please hold all Pest/PCB					
Emergency & Rush T/A data available VIA Lablink			Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:	Date/Time:		Received By:				Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:
1	2/15/13 13:25		Chris Jault				2/15/13	Chris Jault	2/15/13	Chris Jault	2/15/13	Chris Jault	2/15/13	Chris Jault	2/15/13	Chris Jault	2/15/13	Chris Jault	2/15/13	Chris Jault	2/15/13	Chris Jault	2/15/13	Chris Jault	2/15/13	Chris Jault
3																										
5																										
Custody Seal #			<input type="checkbox"/> Intact <input type="checkbox"/> Not intact														Preserved when applicable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	On Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cooler Temp. <b>2.0°C, 1.0°C</b> <b>B, B</b> <b>SB</b>							

C-28

2235 Route 130, Dayton, NJ 08810  
TEL: 732-329-0200 FAX: 732-329-3499/3480  
www.accutest.com

FED-EX Tracking #  
Accutest Quote #  
Order Control # **MV-1130/2013-17**  
Accutest Job # **JB28972**

Client / Reporting Information		Project Information				Requested Analysis ( see TEST CODE sheet)												Matrix Codes						
Company Name <b>Roux Associates</b>		Project Name <b>Echo Bay Redevelopment</b>				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <b>AR8270TCL117, MTAL</b>  <b>V8260 TCL-117</b>  <b>Pest/PCB</b> </div> <div> <table border="1"> <tr><td><input checked="" type="checkbox"/></td><td>AR8270TCL117, MTAL</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>V8260 TCL-117</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Pest/PCB</td></tr> </table> </div> </div>												<input checked="" type="checkbox"/>	AR8270TCL117, MTAL	<input checked="" type="checkbox"/>	V8260 TCL-117	<input checked="" type="checkbox"/>	Pest/PCB	DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WIP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank
<input checked="" type="checkbox"/>	AR8270TCL117, MTAL																							
<input checked="" type="checkbox"/>	V8260 TCL-117																							
<input checked="" type="checkbox"/>	Pest/PCB																							
Street Address <b>209 shafter st</b>		Street <b>224 main</b>																						
City <b>Islandia NY</b>		City <b>New Rochelle NY</b>																						
Project Contact <b>Bob Kovacs</b>		Project #																						
Phone # <b>631 232 2600</b>		Client Purchase Order #																						
Sampler(s) Name(s) <b>Attoffmann</b>		Project Manager																						
Field ID / Point of Collection <b>SBA-1-0-2</b>		MEOH/DI Vial #		Collection		Number of preserved Bottles						LAB USE ONLY												
-13				Date <b>2/15/13</b>		Time <b>1200</b>		Sampled by <b>AH SO</b>		Matrix <b>4</b>		# of bottles <b>4</b>		<input checked="" type="checkbox"/> HCl <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO2 <input type="checkbox"/> H2O2 <input type="checkbox"/> DI Water <input type="checkbox"/> MEOH <input type="checkbox"/> ENCORE										
Turnaround Time ( Business days)		Approved By (Accutest PM): / Date:				Data Deliverable Information						Comments / Special Instructions												
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> other						<input type="checkbox"/> Commercial "A" (Level 1) <input checked="" type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C"						<input type="checkbox"/> NYASP Category A <input checked="" type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other						<b>Please hold Pest/PCB testing</b>						
Emergency & Rush T/A data available VIA Lablink		Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data				Sample Custody must be documented below each time samples change possession, including courier delivery.																		
Relinquished by Sampler: <b>1</b>		Date Time: <b>2/15/13 1325</b>		Received By: <b>Chris Land</b>		Relinquished By: <b>2</b>		Date Time: <b>1725</b>		Received By: <b>2</b>														
Relinquished by Sampler: <b>3</b>		Date Time:		Received By: <b>3</b>		Relinquished By: <b>4</b>		Date Time:		Received By: <b>4</b>														
Relinquished by: <b>5</b>		Date Time:		Received By: <b>5</b>		Custody Seal #		<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Preserved where applicable		<input type="checkbox"/> On Ice <input type="checkbox"/> Cooler Temp.												

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**JB28972: Chain of Custody**

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## Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB28972 Client: \_\_\_\_\_ Project: \_\_\_\_\_

Date / Time Received: 2/15/2013 Delivery Method: \_\_\_\_\_ Airbill #'s: \_\_\_\_\_

Cooler Temps (Initial/Adjusted): #1: (2/2); #2: (1/1); 0

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/> <input type="checkbox"/>	4. SmpI Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Cooler temp verification:	Bar Therm
3. Cooler media:	Ice (Bag)
4. No. Coolers:	2

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

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**Job Change Order: JB28972\_2\_20\_2013**

**Requested Date:** 2/20/2013 **Received Date:** 2/15/2013  
**Account Name:** Roux Associates **Due Date:** 3/1/2013  
**Project:** Echo Bay Redevelopment - City Yard, 224 East **Deliverable:** NYASPB  
**CSR:** michello **TAT (Days):** 14

=====  
**Sample #:** JB28972-5 **Change:** Please run for XPPTCL11  
**Dept:**

SB-5\_10-12  
=====

=====  
**Sample #:** JB28972-8 **Change:** Please run for XPPTCL11  
**Dept:**

FB\_21313  
=====

=====  
**Sample #:** JB28972-9 **Change:** Please run for XPPTCL11  
**Dept:**

SB-3\_0-2  
=====

=====  
**Sample #:** JB28972-11 **Change:** Please run for XPPTCL11  
**Dept:**

FB\_21413  
=====

**Above Changes Per:** Robert Kovacs **Date:** 2/20/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

**Job Change Order: JB28972\_2\_20\_2013**

**Requested Date:** 2/20/2013  
**Account Name:** Roux Associates  
**Project:** Echo Bay Redevelopment - City Yard, 224 East  
**CSR:** michello

**Received Date:** 2/15/2013  
**Due Date:** 3/1/2013  
**Deliverable:** NYASPB  
**TAT (Days):** 14

**JB28972: Chain of Custody**  
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**Above Changes Per:** Robert Kovacs  
**Date:** 2/20/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

**Job Change Order: JB28972\_3\_20\_2013**

**Requested Date:** 3/20/2013      **Received Date:** 2/15/2013  
**Account Name:** Roux Associates      **Due Date:** 3/1/2013  
**Project:** Echo Bay Redevelopment - City Yard, 224 East      **Deliverable:** NYASPB  
**CSR:** MartyV      **TAT (Days):** 7

=====  
**Sample #:** JB28972-1, 10      **Change:**  
**Dept:**      Relog for V8015GRO and B8015DRO44-- OK to run  
**Dept:**      out of holding time.

=====

**JB28972: Chain of Custody**  
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**Above Changes Per:** Robert Kovacs      **Date:** 3/20/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service