## **ENVIROSCIENCE CONSULTANTS, INC.**

ENVIRONMENTAL, ASBESTOS & LEAD CONSULTANTS 2150 SMITHTOWN AVENUE, SUITE 3, RONKONKOMA, NY 11779 PHONE 631.580.3191 FAX 631.580.3195

February 4, 2010

Mr. Marc Chemtob Renaissance Realty Group 1946 Coney Island Avenue Brooklyn, NY 11223

Re: 1640 Flatbush Avenue Brooklyn, New York 11210 Kings County Tax Map Block 7577 Lot 60

Dear Mr Chemtob:

#### Introduction

Enviroscience Consultants, Inc. and Eastern Environmental Solutions, Inc. performed a Phase II Environmental Site Assessment (ESA) at the above-referenced property. Figure 1 shows the property's location and Figure 2 shows the sampling locations. The depth to regional groundwater beneath the site is approximately 32 feet, and the estimated regional groundwater flow direction is toward the south-southeast.

The Phase II ESA was recommended based on the results and conclusions of our Phase I ESA report (dated September 25, 2009) that identified the following Recognized Environmental Conditions (REC):

- 1. The past and present operation of the subject property as a gasoline station with USTs and an on-site stormwater drainage system.
- 2. The former uses of the property as automotive repair shop and dry-cleaning businesses, including the generation of hazardous waste.

#### Methods

On January 21 and 22, 2010, this Phase II ESA was performed including soil sampling, groundwater sampling, and the sampling of sediments from two storm drains at the above-referenced property. Mr. Evan Trumpatori from Enviroscience Consultants, Inc. was present on January 21<sup>st</sup> along with a representative from Eastern Environmental Solutions, Inc. On January 22<sup>nd</sup>, two Eastern representatives were on site, and information was communicated to Enviroscience to prepare this report.

Prior to the start of field activities, the one-call utility mark out service was contacted to identify subsurface public utilities to their service connections. Also, Mr. Greg Menegio of Enviroscience determined the sampling locations based on present site layout and information obtained from historical aerial photographs, which showed that former drycleaning operations were performed in the southwestern portion of the property.

Soil and groundwater samples were colleted via the direct-push technology using a Geoprobe. Soil samples were collected from site grade continuously to the groundwater interface. Soils were screened for volatile organic compounds (VOCs) using a photo-ionization detector (PID) and were inspected for visual and olfactory signs of contamination. The soil interval with the highest PID reading or the deepest interval above the groundwater interface (if there were no indications of contamination) was collected and analyzed for TCL VOCs using a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory (which was York Analytical Laboratories in Stratford, CT).

Groundwater samples were collected once the groundwater interface was reached and analyzed for TCL VOCs. For this investigation, a total of five soil samples and five groundwater samples were collected and analyzed for TCL VOCs.

In addition, sediment samples from two storm drains located on the property were collected and analyzed for TCL VOCs, polynuclear aromatic hydrocarbons (PAHs), and RCRA metals.

All of the samples were collected using laboratory supplied containers and preserved properly. A chain of custody form was completed to document the sequence of sample possession.

The following is a summary of sampling activities at the subject property:

### Soil and Groundwater Sampling

ESB-1 (soil) was collected from the southwest corner of the subject property. Soils were screened continuously from grade to a depth of 32 feet below site grade using a PID, but showed no signs of visual or olfactory signs of contamination. The interval with the highest PID reading, ESB-1 29-30' (0.7 parts per million), was collected and analyzed for TCL VOCs. Groundwater was encountered at a depth of 32 feet below site grade, and a sample was obtained using the Geoprobe as a temporary groundwater point. ESB-1 (Groundwater) was collected from a depth of 32 to 35 feet below site grade and analyzed for TCL VOCs. No sheen or odor was observed in the groundwater sample.

ESB-2 was not sampled due to a subsurface obstruction.

ESB-3 (soil) was collected from the southeast corner of the tank pad. Soils were screened continuously from grade to the groundwater interface and were inspected for visual and olfactory signs of contamination. A petroleum-like odor and staining was observed inches above the groundwater interface, and a sample was collected for TCL VOC analysis. A groundwater sample (ESB-3 Groundwater) was collected and analyzed for TCL VOCs. No sheen or odor was observed in the groundwater sample.

ESB-4 (soil) was collected from the eastern corner of the tank pad. Soils were screened continuously from grade to the groundwater interface and were inspected for visual and olfactory signs of contamination. A petroleum-like odor and staining was observed

inches above the groundwater interface, and a sample was collected for TCL VOC analyses. A groundwater sample (ESB-4 Groundwater) was collected and analyzed for TCL VOCs. No sheen or odor was observed in the groundwater sample.

ESB-5 (soil) was collected from the southwest corner of the tank pad. Soils were screen continuously from grade to the groundwater interface. No visual or olfactory signs of contamination were observed. A sample was collected from the above the groundwater interface and analyzed for TCL VOCs. A groundwater sample (ESB-5 Groundwater) was collected and analyzed for TCL VOCs. No sheen or odor was observed in the groundwater sample.

ESB-6 was not sampled due to a subsurface obstruction.

ESB-7 (soil) was collected from the western corner of the tank pad. Soils were screened continuously from grade to the groundwater interface. No visual or olfactory signs of contamination were observed. A sample was collected from the above the groundwater interface and analyzed for TCL VOCs. A groundwater sample (ESB-7 Groundwater) was collected and analyzed for TCL VOCs. No sheen or odor was observed in the groundwater.

#### **Storm Drain Sediments**

On January 22, 2010, Eastern personnel obtained sediment samples from two storm drains located on the subject property. Samples from SD-1 and SD-2 were collected and analyzed for TCL VOCs, PAHs and RCRA metals. Both storm drains were identified as solid bottom structures that extended to a depth of approximately two feet below site grade. Piping was observed in both storm drains and it is assumed that they discharge to the municipal sewer system. Black sediments mixed with debris were observed in both storm drains, however, no significant visual or olfactory signs of contamination were noted in either structure

#### Results

The chemical analytical results are summarized in Table 1, and a copy of the laboratory report is provided as an Attachment. The results show that MTBE (methyl-tert-butylether) was detected in the soil sample obtained from ESB-3, and isopropylbenzene was detected in the soil sample obtained from ESB-4. There were no other detections in the soil samples.

Toluene and total xylenes were found in concentrations in the sample from SD-1. In addition, 2-butanone and total xylenes were found in low concentrations in the sample from SD-2. Also, concentrations of several metals were detected in both storm drain sediment samples. There were no other detections in the stormwater drain samples.

The soil and sediment results were compared to the NYSDEC TAGM 4046 Recommended Soil Cleanup Objectives (NYSDEC Soil Objectives). The comparisons show that there were no exceedances of the NYSDEC Soil Objectives.

Results from ESB-1 (Groundwater) showed MTBE with a concentration above its NYSDEC Class GA Ambient Water Quality Guidance Value of 10 micrograms per liter (ug/L). The laboratory result shows ESB-1 (Groundwater) with a concentration of 130 ug/L of MTBE, which more than an order of magnitude above its NYSDEC Guidance Value. There were no other detections in the groundwater samples.

#### Conclusions & Recommendations

Based on the results of this Phase II ESA, the groundwater beneath the site is impacted with an elevated dissolved concentration of MTBE, which was historically added to gasoline, above its NYSDEC Guidance Value. No significant concentrations of MTBE or other compounds and metals were identified in the samples obtained from soil sampling locations and two stormwater drains. Therefore, it is presently unknown whether the MTBE is from an upgradient onsite or offsite contamination source.

Therefore, the following is recommended:

- It should be determined whether the source of the MTBE-impacted groundwater is from an offsite or onsite source. Based on the determination, additional recommendations may be provided.
- The NYSDEC is required to be notified.

If there are any questions, please do not hesitate to contact me.

Very truly yours,

Greg Menegio Department Manager Senior Scientist

Figure 1 Site Location Map 1640 Flatbush Avenue, Brooklyn, NY Kings County Tax Map No. Block 7577 Lot 60

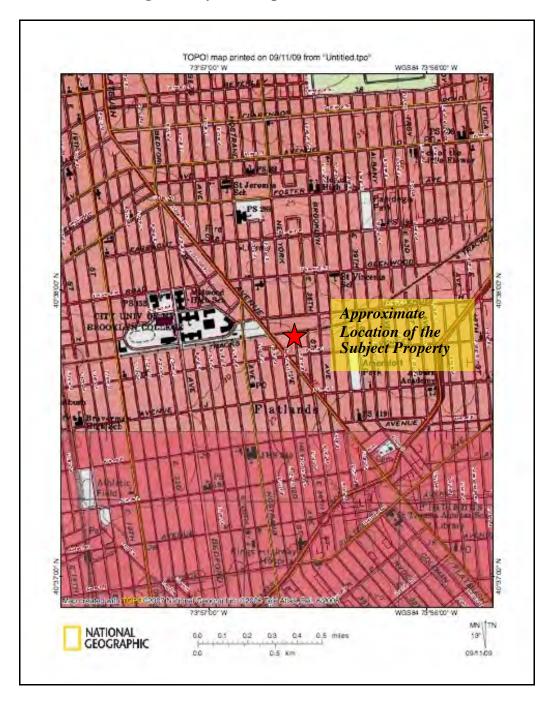


Figure 2
Site Location Map
1640 Flatbush Avenue, Brooklyn, NY
Kings County Tax Map No. Block 7577 Lot 60

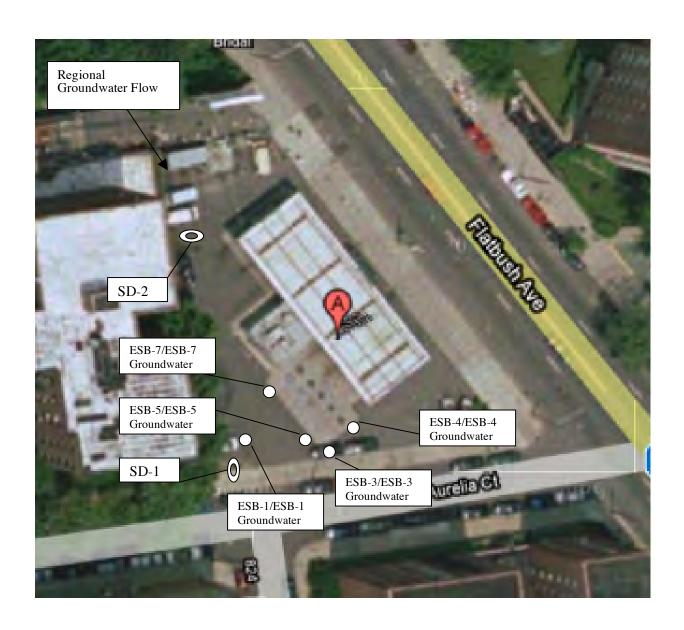


Table 1 Chemical Analytical Results 1640 Flatbush Avenue, Brooklyn, NY

Sample	ESB-3 (Soil)	ESB-4 (Soil)	SD-1 (Stormdrain sediments)	SD-2 (Stormdrain sediments)	*TAGM 4046 Reccomended Soil Cleanup Objective (ppm)	ESB-1 (Groundwater) (ug/L)	NYSDEC Class GA Ambient Water Quality Stantards and Guidance Values (ug/L of ppb)
Volatiles, Target Compound List	(TCL) Method	SW846-8260					
Methyl-tert-butyl-Ether (MTBE)	0.008	ND	ND	ND	0.12	130	10
Isopropylbenzene (Cumene)	ND	0.65	ND	ND	2.3	ND	5
2-Butanone	ND	ND	ND	0.0037	0.3	ND	50
Toluene	ND	ND	0.058	ND	1.5	ND	5
Xylenes (total)	ND	ND	0.0011	0.0014	1.2	ND	5
Polynuclear Aromatic Hydrocarb	ons (PAHs) Me	thod SW846-82	270				
Chrysene	NA	NA	0.36	ND	0.4	NA	0.002
Metals, total RCRA list Method S	SW846-6010						
Arsenic, total	NA	NA	1.62	1.87	7.5	NA	NA
Barium, total	NA	NA	170	48.2	300	NA	NA
Cadmium, total	NA	NA	0.66	ND	1.0	NA	NA
Chromium, total	NA	NA	29	18.4	10.0	NA	NA
Lead, total	NA	NA	88	25	400	NA	NA

<sup>\*</sup> NYSDEC Technical and Administrative Guidance Memorandum (TAGM ) 4046: Determination of Soil Cleanup Objectives and Cleanup Levels

**ATTACHMENTS** 



# **Technical Report**

prepared for:

**Eastern Environmental Solutions** 258 Line Road Manorville, NY 11949 Attention: S. Hamarich

Report Date: 2/1/2010 Re: Client Project ID: Renaissance Realty

York Project No.: 10010726

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854

PA Reg. 68-04440





Report Date: 2/1/2010
Client Project ID: Renaissance Realty
York Project No.: 10010726

#### **Eastern Environmental Solutions**

258 Line Road Manorville, NY 11949 Attention: S. Hamarich

## **Purpose and Results**

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 01/26/10. The project was identified as your project "Renaissance Realty".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

## Analysis Results

Client Sample ID			ESB-1		ESB-3	
York Sample ID			10010726-01		10010726-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, Target Cmpd. List (TCL)	SW846-8260	ug/kG				
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
1,1,2-Trichlorotrifluoroethane			Not detected	10	Not detected	10
(Freon 113)						
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethene			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2-Dibromo-3-Chloropropane			Not detected	10	Not detected	10
1,2-Dibromoethane (ethylene dibromide)			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (cis-)			Not detected	10	Not detected	10
1,2-Dichloroethylene(trans-)			Not detected	10	Not detected	10
1,2-Dichloropropane			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10



Client Sample ID		Ι	ESB-1		ESB-3	
York Sample ID			10010726-01		10010726-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2-Butanone			Not detected	10	Not detected	10
2-Hexanone			Not detected	10	Not detected	10
4-Methyl-2-pentanone			Not detected	10	Not detected	10
Acetone			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	10	Not detected	10
Carbon disulfide			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Isopropylbenzene (Cumene)			Not detected	10	Not detected	10
Methyl tert-butyl Ether (MTBE)			Not detected	10	8	10
Methylene chloride			Not detected	10	Not detected	10
Styrene		:	Not detected	10	Not detected	10
Tetrachloroethene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropene			Not detected	10	Not detected	10
Trichloroethene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10
Xylenes (total)			Not detected	10	Not detected	10

Client Sample ID			ESB-4	
York Sample ID			10010726-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles, Target Cmpd. List (TCL)	SW846-8260	ug/kG		
1,1,1-Trichloroethane			Not detected	500
1,1,2,2-Tetrachloroethane			Not detected	500
1,1,2-Trichloroethane			Not detected	500
1,1,2-Trichlorotrifluoroethane			Not detected	500
(Freon 113)				
1,1-Dichloroethane			Not detected	500
1,1-Dichloroethene			Not detected	500
1,2,4-Trichlorobenzene			Not detected	500
1,2-Dibromo-3-Chloropropane			Not detected	500
1,2-Dibromoethane (ethylene dibromide)			Not detected	500
1,2-Dichlorobenzene			Not detected	500
1,2-Dichloroethane			Not detected	500
1,2-Dichloroethylene (cis-)			Not detected	500



Client Sample ID			ESB-4	
York Sample ID			10010726-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
1,2-Dichloroethylene(trans-)			Not detected	500
1,2-Dichloropropane			Not detected	500
1,3-Dichlorobenzene			Not detected	500
1,4-Dichlorobenzene			Not detected	500
2-Butanone	1		Not detected	500
2-Hexanone			Not detected	500
4-Methyl-2-pentanone			Not detected	500
Acetone			Not detected	500
Benzene			Not detected	500
Bromodichloromethane			Not detected	500
Bromoform			Not detected	500
Bromomethane			Not detected	500
Carbon disulfide			Not detected	500
Carbon tetrachloride			Not detected	500
Chlorobenzene			Not detected	500
Chloroethane			Not detected	500
Chloroform			Not detected	500
Chloromethane			Not detected	500
cis-1,3-Dichloropropene			Not detected	500
Dibromochloromethane			Not detected	500
Dichlorodifluoromethane			Not detected	500
Ethylbenzene			Not detected	500
Isopropylbenzene (Cumene)			650	500
Methyl tert-butyl Ether (MTBE)			Not detected	500
Methylene chloride			Not detected	500
Styrene			Not detected	500
Tetrachloroethene			Not detected	500
Toluene			Not detected	500
trans-1,3-Dichloropropene			Not detected	500
Trichloroethene			Not detected	500
Trichlorofluoromethane			Not detected	500
Vinyl chloride			Not detected	500
Xylenes (total)			3800	500

Client Sample ID			ESB-5		ESB-7	
York Sample ID			10010726-04		10010726-05	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, Target Cmpd. List (TCL)	SW846-8260	ug/kG			4	
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane	,		Not detected	10	Not detected	10
1,1,2-Trichlorotrifluoroethane (Freon 113)			Not detected	10	Not detected	10
1,1-Dichloroethane	-		Not detected	10	Not detected	10
1,1-Dichloroethene			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene		<u> </u>	Not detected	10	Not detected	10
1,2-Dibromo-3-Chloropropane			Not detected	10	Not detected	10



Client Sample ID		T	ESB-5	T	ESB-7	<u> </u>
York Sample ID	- · <u> </u>		10010726-04		10010726-05	
Matrix		<u> </u>	SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dibromoethane (ethylene dibromide)			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane		1	Not detected	10	Not detected	10
1,2-Dichloroethylene (cis-)			Not detected	10	Not detected	10
1,2-Dichloroethylene(trans-)			Not detected	10	Not detected	10
1,2-Dichloropropane		1	Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,4-Dichlorobenzene	1.2		Not detected	10	Not detected	10
2-Butanone	* ***		Not detected	10	Not detected	10
2-Hexanone			Not detected	10	Not detected	10
4-Methyl-2-pentanone	2000		Not detected	10	Not detected	10
Acetone	· · · · · · · · · · · · · · · · · · ·		Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	10	Not detected	10
Carbon disulfide			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10.	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	_10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Isopropylbenzene (Cumene)			Not detected	10	Not detected	10
Methyl tert-butyl Ether (MTBE)			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
Tetrachloroethene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropene			Not detected	10	Not detected	10
Trichloroethene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10
Xylenes (total)			Not detected	10	Not detected	10

Client Sample ID			ESB-1 Groundwater		ESB-3 Groundwater	
York Sample ID			10010726-06		10010726-07	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, Target Cmpd. List (TCL)	SW846-8260	ug/L				
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichlorotrifluoroethane (Freon 113)		-	Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0



Client Sample ID			ESB-1 Groundwater		ESB-3 Groundwater	
York Sample ID			10010726-06		10010726-07	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,1-Dichloroethene	· · · · · · · · · · · · · · · · · · ·		Not detected	5.0	Not detected	5.0
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dibromo-3-Chloropropane			Not detected	5.0	Not detected	5.0
1,2-Dibromoethane (ethylene			Not detected	5.0	Not detected	5.0
dibromide)						
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (cis-)			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene(trans-)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
2-Butanone			Not detected	5.0	Not detected	5.0
2-Hexanone			Not detected	5.0	Not detected	5.0
4-Methyl-2-pentanone			Not detected	5.0	Not detected	5.0
Acetone			Not detected	5.0	Not detected	5.0
Benzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	5.0	Not detected	5.0
Carbon disulfide			Not detected	5.0	Not detected	5.0
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	5.0	Not detected	5.0
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Ethylbenzene			Not detected	5.0	Not detected	5.0
Isopropylbenzene (Cumene)			Not detected	5.0	Not detected	5.0
Methyl tert-butyl Ether (MTBE)			130	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
Styrene			Not detected	5.0	Not detected	5.0
Tetrachloroethene			Not detected	5.0	Not detected	5.0
Toluene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropene			Not detected	5.0	Not detected	5.0
Trichloroethene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	5.0	Not detected	5.0
Xylenes (total)			Not detected	15.0	Not detected	15.0

Client Sample ID			ESB-4 Groundwater		ESB-5 Groundwater	
York Sample ID			10010726-08		10010726-09	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, Target Cmpd. List (TCL)	SW846-8260	ug/L				
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0



Client Sample ID		T	ESB-4 Groundwater	<u> </u>	ESB-5 Groundwater	-
York Sample ID			10010726-08	<del></del>	10010726-09	
Matrix	·		WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichlorotrifluoroethane		1	Not detected	5.0	Not detected	5.0
(Freon 113)				1		
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethene			Not detected	5.0	Not detected	5.0
1,2,4-Trichlorobenzene	-		Not detected	5.0	Not detected	5.0
1,2-Dibromo-3-Chloropropane			Not detected	5.0	Not detected	5.0
1,2-Dibromoethane (ethylene			Not detected	5.0	Not detected	5.0
dibromide)						
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (cis-)			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene(trans-)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
2-Butanone			Not detected	5.0	Not detected	5.0
2-Hexanone			Not detected	5.0	Not detected	5.0
4-Methyl-2-pentanone			Not detected	5.0	Not detected	5.0
Acetone			Not detected	5.0	Not detected	5.0
Benzene			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	5.0	Not detected	5.0
Carbon disulfide			Not detected	5.0	Not detected	5.0
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	5.0	Not detected	5.0
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropene	······		Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Ethylbenzene			Not detected	5.0	Not detected	5.0
Isopropylbenzene (Cumene)			Not detected	5.0	Not detected	5.0
Methyl tert-butyl Ether (MTBE)			Not detected	5.0	Not detected	5.0
Methylene chloride	·		Not detected	5.0	Not detected	5.0
Styrene		<u> </u>	Not detected	5.0	Not detected	5.0
Tetrachloroethene			Not detected	5.0	Not detected	5.0
Toluene		<u> </u>	Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropene			Not detected	5.0	Not detected	5.0
Trichloroethene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	5.0	Not detected	5.0
Xylenes (total)			Not detected	15.0	Not detected	15.0



Client Sample ID	<u> </u>	· · ·	ESB-7 Groundwater	
York Sample ID		<del></del>	10010726-10	
Matrix	<del> </del>		WATER	
Parameter	Method	Units	Results	MDL
Volatiles, Target Cmpd. List (TCL)	SW846-8260	ug/L	Results	1/11111
1,1,1-Trichloroethane	5 77 0-10-02-00	ugil	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0
1,1,2-Trichlorotrifluoroethane			Not detected	5.0
(Freon 113)			1,00 4000004	•
1,1-Dichloroethane			Not detected	5.0
1,1-Dichloroethene			Not detected	5.0
1,2,4-Trichlorobenzene			Not detected	5.0
1,2-Dibromo-3-Chloropropane			Not detected	5.0
1,2-Dibromoethane (ethylene dibromide)			Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0
1,2-Dichloroethane			Not detected	5.0
1,2-Dichloroethylene (cis-)			Not detected	5.0
1,2-Dichloroethylene(trans-)			Not detected	5.0
1,2-Dichloropropane			Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0
2-Butanone			Not detected	5.0
2-Hexanone			Not detected	5.0
4-Methyl-2-pentanone			Not detected	5.0
Acetone			Not detected	5.0
Benzene			Not detected	5.0
Bromodichloromethane			Not detected	5.0
Bromoform			Not detected	5.0
Bromomethane			Not detected	5.0
Carbon disulfide	<u> </u>		Not detected	5.0
Carbon tetrachloride			Not detected	5.0
Chlorobenzene			Not detected	5.0
Chloroethane			Not detected	5.0
Chloroform			Not detected	5.0
Chloromethane			Not detected	5.0
cis-1,3-Dichloropropene			Not detected	5.0
Dibromochloromethane			Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0
Ethylbenzene	<del></del>		Not detected	5.0
Isopropylbenzene (Cumene)			Not detected	5.0
Methyl tert-butyl Ether (MTBE)			Not detected	5.0
Methylene chloride			Not detected	5.0
Styrene			Not detected	5.0
Tetrachloroethene			Not detected	5.0
Toluene			Not detected	5.0
trans-1,3-Dichloropropene			Not detected	5.0
Trichloroethene			Not detected	5.0
Trichlorofluoromethane			Not detected	5.0
Vinyl chloride			Not detected  Not detected	5.0
Xylenes (total)			Not detected  Not detected	15.0
Aylenes (total)			Not detected	13.0



Client Sample ID	<del></del>	ī	SD-1	<del> </del>	SD-2	
York Sample ID			10010726-11		10010726-12	
Matrix			SOIL	<del> </del>	SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Polynuclear Aromatic Hydrocarbons (BN)	SW846-8270	ug/kG	Results		Results	MIDL
2-Methyl naphthalene	3 W 640-6270	ug/KO	Not detected	330	Not detected	330
Acenaphthene		<del> </del>	Not detected	330	Not detected	330
Acenaphthylene			Not detected  Not detected	330	Not detected	330
Anthracene			Not detected	330	Not detected	330
Benzo[a]anthracene		<del></del>	Not detected	330	Not detected  Not detected	330
Benzo[a]pyrene	<u> </u>		Not detected	330	Not detected  Not detected	330
Benzo[b]fluoranthene			Not detected  Not detected	330	Not detected  Not detected	330
Benzo[g,h,i]perylene		<del></del>	Not detected	330	Not detected  Not detected	330
Benzo[g,n,r]perylene  Benzo[k]fluoranthene			Not detected  Not detected	330	Not detected  Not detected	330
Chrysene	<del></del>		360	330	Not detected  Not detected	330
Dibenz[a,h]anthracene			Not detected	330	Not detected  Not detected	330
Fluoranthene			Not detected  Not detected	330	Not detected  Not detected	330
Fluorene	<del>                                     </del>		Not detected  Not detected	330	Not detected  Not detected	330
Indeno[1,2,3-cd]pyrene			Not detected  Not detected	330	Not detected	330
Naphthalene			Not detected	330	Not detected	330
Phenanthrene		•	Not detected	330	Not detected	330
Pyrene			Not detected	330	Not detected  Not detected	330
Volatiles, Target Cmpd. List (TCL)	SW846-8260	no/leC	Not detected	330	Not detected	
1,1,1-Trichloroethane	3 W 640-6200	ug/kG	Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected  Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected  Not detected	10
1,1,2-Trichlorotrifluoroethane (Freon 113)			Not detected	10	Not detected  Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected  Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2-Dibromo-3-Chloropropane			Not detected	10	Not detected	10
1,2-Dibromoethane (ethylene dibromide)			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (cis-)			Not detected  Not detected	10	Not detected  Not detected	10
1,2-Dichloroethylene (trans-)			Not detected	10	Not detected  Not detected	10
1,2-Dichloropropane			Not detected  Not detected	10	Not detected  Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,4-Dichlorobenzene		·	Not detected	10	Not detected	10
2-Butanone			Not detected	10	37	10
2-Butanone 2-Hexanone	<u> </u>		Not detected	10	Not detected	10
4-Methyl-2-pentanone		··	Not detected	10	Not detected	10
Acetone		<del></del>	Not detected	10	Not detected  Not detected	10
Benzene		····	Not detected	10	Not detected	10
Bromodichloromethane	<del></del>		Not detected  Not detected	10	Not detected  Not detected	10
Bromoform			Not detected	10	Not detected  Not detected	10
Bromomethane			Not detected	10	Not detected  Not detected	10
Carbon disulfide	· · · · · · · · · · · · · · · · · · ·		Not detected  Not detected	10	Not detected  Not detected	10
Carbon tetrachloride	<del></del>		Not detected  Not detected	10	Not detected  Not detected	10
Chlorobenzene			Not detected Not detected	10	Not detected  Not detected	10
Chloroethane			Not detected  Not detected	10	Not detected  Not detected	10
Chloroform			Not detected Not detected	10	Not detected  Not detected	10
Chloromethane			Not detected  Not detected		Not detected  Not detected	10
cis-1,3-Dichloropropene				10		
dis-1,3-Dicilioropropene			Not detected	10	Not detected	10



Client Sample ID			SD-1		SD-2	
York Sample ID			10010726-11		10010726-12	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Dibromochloromethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Isopropylbenzene (Cumene)			Not detected	10	Not detected	10
Methyl tert-butyl Ether (MTBE)			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
Tetrachloroethene			Not detected	10	Not detected	10
Toluene			58	10	Not detected	10
trans-1,3-Dichloropropene			Not detected	10	Not detected	10
Trichloroethene			Not detected	10	Not detected	10
Trichlorofluoromethane	· · · · · · · · · · · · · · · · · · ·		Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10
Xylenes (total)			11	10	14	10
Metals, total RCRA List	SW846-6010	mg/kG				
Arsenic, total			1.62	1.00	1.87	1.00
Barium, total			170	0.50	48.2	0.50
Cadmium, total			0.66	0.50	Not detected	0.50
Chromium, total			29.0	0.50	18.4	0.50
Lead, total			87.9	0.50	25.0	0.50
Selenium, total			Not detected	1.00	Not detected	1.00
Silver, total			Not detected	0.50	Not detected	0.50
Mercury	SW846-7471	mg/kG	Not detected	0.10	Not detected	0.10

Units Key:

For Waters/Liquids: mg/L = ppm; ug/L = ppb

For Soils/Solids: mg/kg = ppm; ug/kg = ppb

## Notes for York Project No. 10010726

- 1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the <u>REPORTING LIMIT</u> and is based upon the lowest standard utilized for calibration where applicable.
- 2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
- 3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
- 4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
- 5. All samples were received in proper condition for analysis with proper documentation.
- 6. All analyses conducted met method or Laboratory SOP requirements.
- 7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By:

Robert ©. Bradley

Managing Director

Date: 2/1/2010

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615

(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract NOTE: York's Std. Terms & Conditions are listed on the back side of this document,

YOUR Information	Report To:	<u>.</u>	Invoice To	YOUR Project ID	li ac	T Parious	-	£ 1	1.00
		_		361 - <u>1351 -</u>				า iype/บ	Report type/Deliverbles
7, 1	Company:		Same	Renaissance		RUSH - Same Day		Summary Report	) in the man
7-	Address:	Address:	}	Reolty	$\neg$	KUSH - Next Day	CTR	CT RCP Package	
Phone No. (2) 277	Diame M.			Purchase Order No.	er No.	RUSH - Two Day	NYA	NY ASP A Package	
1 HOLLE INO. 1631 - 16 (-5)	rione No.	Phone No.	0.		•	RUSH - Three Day	NY A	NY ASP B Package	
Contact Person: S Homar 1 Ch	Attention:	Attention:				RUSH - Four Day	Electro	<i>Electronic Deliverables:</i> FDD (Specify Tyme)	. (6
E-Mail Address:	E-Mail Address:	E-Mail Address	ddress:	Samples from: CTNY	īz	Standard(5-7 Days)	\	dfr franch	
Prin Gearly and Legitly All-Information and	II Information m	arolamos of his	Volatiles	Semi-Vols. Pest/PCB/Herh Metals	ls Misc. Org.	Full Lists	Common Miscellaneous Parameters	Parameters	Special
Samples will NOT be loosed in mil he were want the			8260 full TICs   82	8270 or 625 8082PCB RCRA8		Pri.Poll. Corrosivity			Instructions
clock will not begin until an			S list Nassau Co.		CTETPH	TCL Organics Reactivity TAL MetCN Ignitability	Niete TKN	Phenols ⊨ Cvanide-T Fi	Field Filtered
			Suffolk Co.	lly CT RCP			Tot. Nitrogen		Lab to Filter
Mr M		Matrix Codes S - soil	MTBE Ketones PA TCL list Oxygenates TA	PAH list App. IX TAGM list TAGM list Site Spec. NIDEP list	ist TPH 1664	Full App. IX Sieve Anal.	Ammonia-N	BODS	
1/1 talk		Other - specify(oil, etc.)	list TCLP list	t SPLPorTCLP	_			BODZ8	
Samples Collected/Authorized By (Signature)	By (Signature)	WW - wastewater GW - groundwater	CT RCP list 524.2 Arom only 502.2	TCL list TCLP Pest Dissolved	d Air STARS	No Discussive Fugas No Discussive Fugas Dart 360	Tot. Phos.	COD	
Jash Falk		DW - drinking water	Halog.only	Chlordane		NYCHES TOC	F.O.G.	Total Solids	
Name (printed)		Air-SV - soil vapor	App.IX list SPIP or TCIP BNA 80218 list SPIP or TCIP BNA	TCLP BNA 608 Pest LIST Below OFF PARTY P. AND SON DOTS	w Methane	NYSDECsevier Asbestos		TDS	
Sample Identification	Date Sampled	Sample Matrix	Choose Analyse	Choose Analyses Needed from the Menu Above and Enter Below	Menu Abov	e and Enter Be	C.	Containe	ner
- CON	1/22/1	<b>(</b>	101	70/-				Description(s)	10n(s)
1-00-1	01/88/	7	77/	7065				(40z)	
E58-3								(802)	(202)
F5B-4							-	(802) 1	(202)
ESB-5				·				(00)	(2,2)
E < 0 - 7							-	/ /	7 7
		<b>&gt;</b>						\ (zog)	(20)
ESB-1 Goundwater		Ø						2 (40m)	(1)
ESB-3 Grandwater							8	2 (40 m)	
EB-4 Grandwater							\ <b>8</b>	2 (40m)	
ESB-5" Grandwater	_						2	(40 m	) (
ESB-7 Grandwater	>	$\rightarrow$	$\rightarrow$				8	(40 mi)	
Comments		Preservation Check those Applicable	4°C Frozen ZnAc	HCI MeOH	HNO,	H,SO, NaOH	H	<u></u>	
			00 100		1011	11/1	1 81		lemperature
			My Hall			mon 1/6	101	6	Mon Receipt
		-	samples Kelinquished By	t By Date/Time		Received By	Date/Time	6	36°
			Samples Relinguished By	I Bv Date/Time	- Sampo D	1	5	7	_ つ   

YORK

20 RESEARCH DR. STRATFORD, CT 06615

(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

This document serves as your written authorization to York to proceed with the analyses requested and your, York Project No. 100 107 326 signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

Field Filtered **Femperature** Instructions Report Type/Deliverbles Special 1(202) Summary W/ QA Summary Electronic Deliverables: EDD (Specify Type) NY ASP A Package NY ASP B Package CT RCP Package Summary Report Misc. Org. | Full Lists | Common Miscellaneous Parameters Cyanide-A BOD28 1650 Excel Ammonia-N Tot. Nitrogen Phosphate Oil&Grease Tot. Phos. Chloride Turn-Around Time Choose Analyses Needed from the Menu Above and Enter Below Standard(5-7 Days) Part 360 Economic Aquatic Tox. Part 360-Routine | Heterotrophs Flash Point Sieve Anal. TCL Organics Reactivity NYSDECsever | Asbestos RUSH - Three Day RUSH - Same Day Part 360-Expanded BTU/Ib. RUSH - Four Day RUSH - Two Day Part 360 Baseline TOX Samples Received in TAL MedCN Full App. IX Full TCLP NY 310-13 TPH DRO Air TO14A CT ETPH TPH 1664 Air TO15 Air STARS TCLP Herb SPLP or TCLP Air VPH Indiv. Metals | Air TICs Methane YOUR Project ID Purchase Order No. TAGM list NJDEP list Samples from: CT\_\_\_NY\_\_ Dissolved LIST Below Semi-Vols. Pest/PCB/Herb Metals CT15 list PP13 list Genalsganee CT RCP list SPLP or TCLP Total Date/Time Date/Time Ascorbic Acid TCLP Pest Chlordane Reo (t App. IX Site Spec. 8081Pest 8151Herb CT RCP App.IX list SPLPorTCLP TCLP BNA 608 Pest NJDEP list STARS list Acids Only TAGM list BN Only TCL list Арр. ІХ Amples Relinquished By Samples Relinquished By PAH list Suffolk Co. Halog.only NJDEP list Nassau Co. TCLP list Ketones Invoice To: Arom. only 502.2 CT RCP list 524.2 Volatiles Company: Some TAGM list STARS list BTEX MTBE TCList E-Mail Address: S - soil Other - specify(oil, etc.) Attention: Phone No. Print Clearly and Legibly. All information must be complete GW - groundwater DW - drinking water ples will NOT be logged in and the turn-around time Check those Applicable Sample Matrix ciolik will not begin until any questions by York are resolve Matrix Codes WW - wastewater Air-A - ambient air Air-SV - soil vapor 5 Report To: Date Sampled 1/22/10 Samples Collected/Authorized By (Signature) E-Mail Address: Company: faster Enveso | Company: Phone No. Attention: Fol/L Name (printed) Contact Person: S. Homorich YOUR Information Phone No. 631-727-2700 Sample Identification Address: 25B Line Rol Comments E-Mail Address: