Contractor Document Number: 02_24_13-007R0

J. D'ANNUNZIO & SONS, INC.
CONTRACTORS • ENGINEERS

J. D'Annunzio & Sons, Inc.
136 Central Avenue
Clark, NJ 07066
Phone: 212-249-7350
FAX: 212-249-7365

Contract No: **C-26013**

Construction of Part of Second Avenue Subway Route 132A; 86th Street Station – Excavation, Utility Relocation and Road Decking in the Borough of Manhattan

AWO-047- Spoils and Groundwater Classification Report

02 24 13-007R00

Action: Submittal for Approval

3/22/2011

TO: Phil Rice, P.E.
MTACC
341 E. 79th Street, 3rd Floor, New York, NY 10075

Section	Title	Paragraph
02 24 13	Classification of Spoils, Water and Wastes	
Comments: Spoils and Groundwater Classification Report due to Revised North Shaft Location - AWO-047		

Christopher D'Annunzio
Project Engineer

Prepared by: Chris Dannunzio

Files included with this Submittal: 02_24_13-007R0-Spoils and GW Classification Report AWO-047.pdf

Spoils and Groundwater Classification, Sampling and Analysis Report

New North Shaft Location

Project:

Construction of New North Shaft Location
86th Street Station
Manhattan, New York
Contract AWO-0033

Client:

J. D'Annunzio & Sons, Inc.
136 Central Avenue
Clark, New Jersey

Prepared For:

Metropolitan Transportation Authority-NYC Transit Authority

Prepared By:

Global Environmental Technologies, Inc.
100 Jersey Avenue
New Brunswick, New Jersey

DATED	VERSION	PROJECT MANAGER SIGNATURE
March 18, 2011	1.0	

GLOBAL ENVIRONMENTAL TECHNOLOGIES, INC.
100 Jersey Ave. • Box E4 • New Brunswick, NJ 08901 • Tel. 732-214-1199 • Fax 732-214-8338

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1. Introduction

Global Environmental Technologies, Inc. has prepared this Spoil and Groundwater Classficiation, Sampling and Analysis Report (herein referred to as the 'Report") for the Metropolitan Transportation Authority (MTA) on behalf of J. D'Annunzio & Sons, Inc., with respect to 86th Street Station Excavation, New North Shaft Location in the Borough of Manhattan (the "Project"). The Project involves the removal and installation of various utilities and associated structures. This Report documents the investigative activities for: 1) soil sampling, analyzing, reviewing laboratory analysis results, and approving of off-site disposal facilities; and 2) groundwater well installation and well purging.

The investigative activities have been conducted specifically with respect to planned project excavation or earthwork at the New North Shaft location, which is in the vicinity of a known chlorinated solvent spill (perchloroethylene, PCE; trichloroethylene, TCE; cis-dichloroethene, DCE; and vinyl chloride, VC). The source of the contamination appears to be from the former London Dry Cleaners, which is currently the Food Emporium supermarket on the east side of 2nd Avenue between 86th and 87th Streets.

The Report presents the soil sampling and analysis that was performed to classify the subsurface soils that will be removed from the Project site. The resultant classification will determine how the soil is to be managed for off-site disposal and/or beneficial reuse.

The Report presents the installation, purging, and as-built specifications of the groundwater monitoring well installed at the Project Site. Sampling of the installed well was performed by Moretrench. The laboratory analysis results were evaluated and included in this Report.

2. Scope

Where appropriate, the scope of the investigation was based upon the following documents: 1) the New York State Department of Environmental Conservation Technical Guidance for Site Investigation and Remediation (DER-10); 2) New Jersey Technical Requirements for Site Remediation, N.J.A.C.; 3) NYSDEC Spill Technology and Remediation Series (STARS) Memo #1 and Consolidation Memo; 4) MTA Contract C-26013, specification 022413 for the Classification of Spoils, Groundwater and Waste; 5) JSDI's approved Air monitoring Plan (AMP), Exposure Monitoring Plan (EMP) and Health and Safety Plan (HASP).

3. Description of Site

The Project is located on 2nd Avenue in Manhattan, New York between East 86th Street and East 87th Street (see **Plate 1**). The Project involves the excavation and removal of approximately 190 cubic yard of excess spoils (32 ft in length by 20 ft in width by 8 ft in depth) that require off-site disposal and/or recycling.

According to previous investigations in the vicinity, the subsurface soil at the Project area consists of coarse to fine sand and some silt from grade to 15 ft below existing grade (BEG); decomposed schist/quartz from 15 ft to 30 ft BEG. The groundwater table is approximately 12 ft BEG. However, during this sampling event, the consolidated schist (bedrock) was encountered at approximately 8 ft BEG. Groundwater was encountered at approximately 14 ft BEG. The sampling plan was modified in the field based on these field observation.

4. Soil Sampling and Analysis

The sampling on the Site was conducted from February 23 to 25, 2011. The in-situ sampling plan was specified to include three (3) zones with volumes that approximated 250 cubic yards each. The implementation of the spoils classification was executed in accordance with the approved plan, with the following modifications that were made in the field:

Field observation indicated that bedrock exists at approximately 8 ft BEG instead of 15 ft as previously anticipated. Accordingly, the number of the sampling zones were reduced from three (3) to two (2), with Zone-1 from 2 to 6 ft BEG (grade to 2 ft are concrete, asphalt and Belgium block), and Zone-2 from 6 ft to 8 ft BEG. It is estimated that Zone-1 contains 95 cubic yard of soil, and Zone -2 contains 48 cubic yard of soil. **Plate 2** presents the location and indexing of each of the zones.

4.1. *Soil Sample Frequency*

Based on the sampling requirements of the proposed disposal facilities, a sampling frequency of 1 sample per 250 cubic yards (2 soil samples for the whole project to ensure redundancy) was implemented. One soil boring, identified as SP-1, was installed within the Project area to a depth that is consistent with the planned terminating excavation depth (30 ft BEG). Soil borings within each zone was advanced continuously to acquire accurate soil classification. Within each zone, 4 grab samples was collected. The intervals of grab samples were evenly spaced.

Plate 2 presents the location of the soil boring and the designated sample code. Four discrete soil samples were obtained for each sampling zone. The depth of each discrete sample is provided in **Table 2**.

4.2. *Soil Sample Analysis*

Each of the soil samples collected from within each zone was subject to field screening using a portable photo-ionization detection meter (PID). One soil sample from each zone that yielded the highest results from field screening activities was containerized and preserved. The sample that exhibits the highest PID result was analyzed for total Volatile Organic Compounds (VOCs) using USEPA Test Method 8260. The remaining portions of the four soil samples from each zone were mixed to create one composite sample representative of soil from each 250 cubic yard zone. This

composite sample was containerized, preserved and analyzed for Semi-Volatile Organic Compounds (SVOCs) using USEPA Test Method 8270, Pesticides and PCBs using USEPA Test Method 8082, Herbicides using USEPA Test Method 8051, total Inorganic Metals using USEPA Test Method 6010, Full TCLP analysis for 8260, 8270, 6010, 8081, 8082 and 8150, Total Petroleum Hydrocarbon (TPH), and RCRA Characteristics analysis

5. Soil Sampling Procedures

All work was performed in accordance with the MTA-approved Spoil and Groudnwater Classification, Sampling and Analysis Plan, dated November 23, 2010, and Health and Safety Plan submitted under contract specification section 022413.

5.1. *Soil Boring Installation*

Soil boring was installed using drill casing until consolidated rock is encountered. The boring was hand cleaned (with hand auger and air knife) to 6 ft below existing grade to avoid hiting utilities.

Soil samples were collected using a split spoon system . Consolidated rock was encountered at approximately 8 ft BEG. Reversed air rotary drilling rig was utilized to advance the borehole to terminating excavation depth (30 ft BEG).

5.2. *Soil Sample Characterization*

A visual inspection of the soil samples collected was conducted to classify the sample media and identify any olfactory evidence of contamination (i.e. staining, odors). In addition, headspace analysis was performed on each of the soil samples utilizing a portable photo ionization detection meter to measure what, if any, volatile hydrocarbon concentrations are present in isolated portions of the samples. Calibration of the PID was conducted prior to sampling using a span gas of known concentration. Soil log can be referenced with **Appendix A**.

5.3. *Investigative Derived Wastes*

One drum of investigation-derived drill dutting and one drum of well purging water, which were generated during the investigative activities, were stored in 55-gallon drums labeled “Non-Hazardous Waste Pending Analytical Results”. Drums were stored in a secured area to prevent tampering until they are removed from the Site. The location of the drums storage can be referenced with **Plate 2**.

6. Monitoring Well Construction Procedure

The groundwater well, identified as MW-1, was installed using reversed air rotary drilling rig. The well casing was constructed using 2-inch diameter, PVC Schedule 40. The screen construction used for the wells was 10 slot (0.01 inch). The screen length was 20 ft, from 30 ft BEG to 10 ft BEG, approximately 4 ft above soil-groundwater interface, which is 14 ft BEG based on field observation.

Sand pack was installed at the screened levels. The sand pack materials consisted of Morie # 1 sand with a thickness ranging from 2-ft below to 5-ft above the screen with 1-ft thick layer of finer grain sand placed above sand pack. The finer grain sand is intended to prevent settlement of the bentonite slurry and/or infiltration of the bentonite slurry into sand pack. A bentonite seal was installed above the fine grain sand pack. A bentonite cement/bentonite grout was installed upon bentonite seal to the grade. The grout was mixed using a ratio of approximately 94 lbs of cement, 3 to 5 lbs of bentonite and 6.5 gallons of clean water.

Field measurements were collected after the placement of each sand pack and bentonite slurry seal to avoid bridging and verify accurate placement (confirm no settlement). The well was completed to grade with a locking manhole cover. The well installation diagram can be referenced with **Appendix B**.

6.1. *Monitoring Well Development*

The development and sampling procedures conformed to NYSDEC protocols. A field log protocol was conducted to record sampling data including; date, time, location, sample identification code, depth to water, total depth of the well, and method of well development.

Due to the slow recharge, the monitoring well was developed approximately 12 hour subsequent to well installation. Approximately 2 gallon of groundwater was purged before the monitoring well ran dry.

Field measurements were secured from the monitoring well during the development process to provide data regarding physical groundwater characteristics. The development water was field analyzed (using a Horiba U-52) for pH, specific conductivity and temperature.

6.2. *Groundwater Sampling*

On March 9, 2011, Moretrench collected one groundwater sample from groundwater monitoring well MW-1. The groundwater sampling collected was analyzed for NYCDEP sewer discharge permit parameters.

6.3. *Decontamination Procedures*

Prior to arrival on the Site and between boring/ well locations, all sampling tools relating to auger or drilling equipment were decontaminated. A decontamination pad was constructed on the Site for this purpose. The decontamination was performed on the Site in accordance with the MTA-approved Spoil and Groudnwater Classification, Sampling and Analysis Plan, dated November 23, 2010, and Health and Safety Plan submitted under contract specification section 022413.

6.4. *Monitoring Well Abandonment*

Upon completion of the groundwater sampling and analysis, the well will be decommissioned under the auspicies of the Engieer. in accordance with the NYSDEC guidance document titled Groundwater Monitoring Well Decommissioning Prodecures (NYSDEC, 1996).

The well casing will be grouted to a level of five feet below the existing grade. The well casing will be cut to five ft depth. The grout will be mixed using a ratio of approximately 94 lbs of cement, 3 to 5 lbs of bentonite and 6.5 gallons of clean water. The uppermost five feet of the borehole will be restored to the condition of the area surrounding the borehole.

7. Air Monitoring

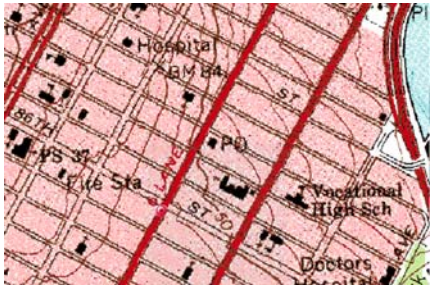
During the sampling event, the site workers used a photo ionization detector (PID) to monitor levels of organic vapor in the air. The PID has an audible alarm set for 5 ppm. Testing was performed within the work zone and at the nearest down-wind property line during the sampling event to insure the protection of the surrounding community. The air monitoring activities were performed in accordance with the approved Air Monitoring Plan (AMP) and Exposure Monitoring Plan (EMP).

Log data established that the VOC background level was approximately 0.0 parts per million (ppm). Air quality readings for organic vapors were below the applicable response limits established in the AMP and EMP.

8. Evaluation of Results

The laboratory data generated from the performance of the soil sampling was tabulated for comparison to relevant guidance documents and criteria. The results are presented in **Table 2**. The original laboratory report is provided in **Appendix C.** The classification of the soil is provided on **Table 3**. The TCLP analysis performed on the soil samples failed to detect concentraions of any analytes. The TPH analysis dected concentraion of 116 ppm and 68 ppm for Zone-1 and Zone-2, respectively. The RCRA Characteristics analysis revealed that the soil samples were non-hazardous.

The laboratory data generated from the performance of groundwater sampling by Moretrench was tabulated for comparision to NYCDEP sewer discharge limit. The results are presented in **Table 4**. The original laboratory report is provided in **Appendix C** The laboratory analysis of the groundwater sample revealed that the concentraion of total suspended solid (TSS) exceeded the NYCDEP sewer discharge requirement to combined sewers. All other paramters met NYSDEP's discharge requirements.



Project Location Map

Date: 9-29-2010

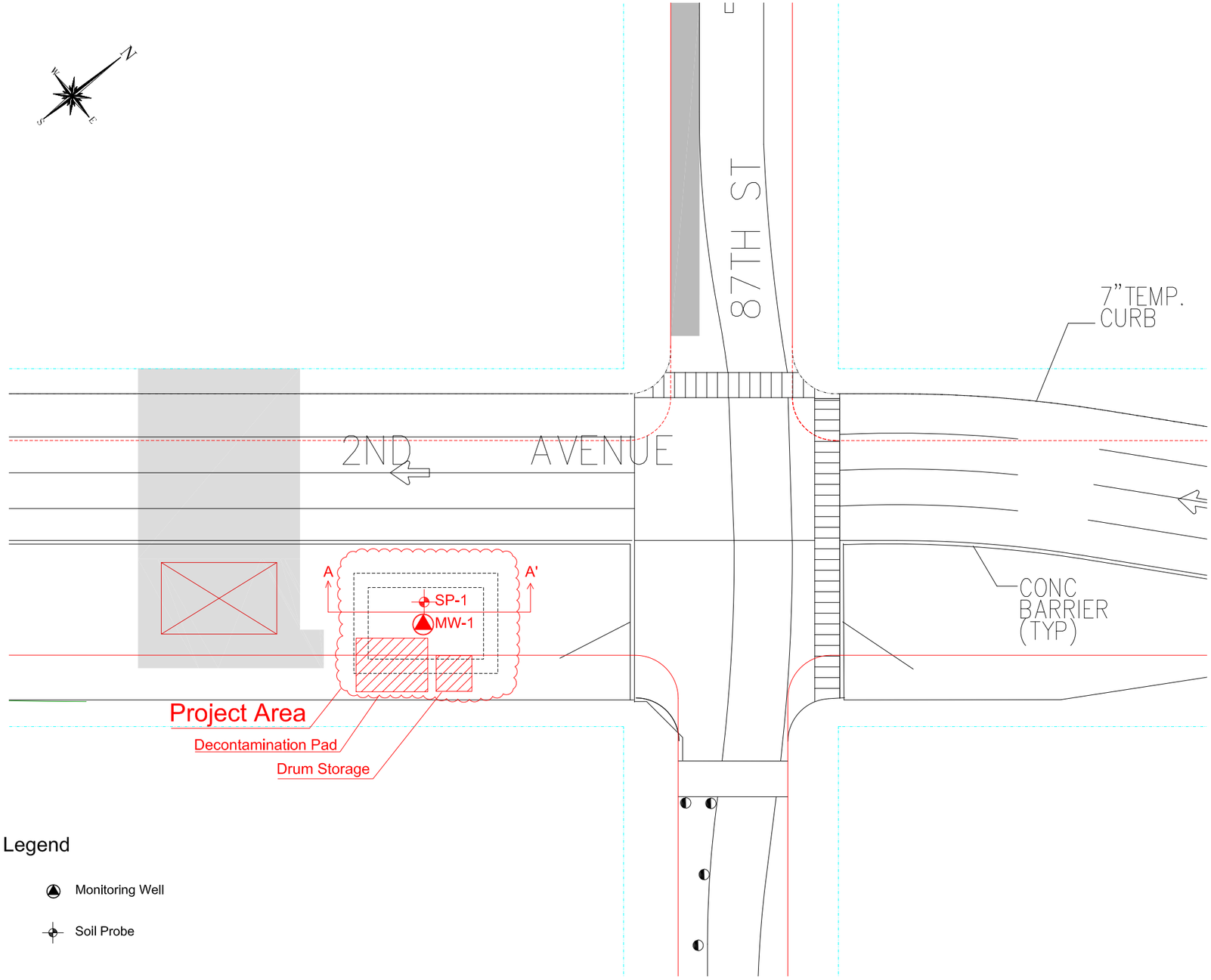
North New Shaft Location
86th Street & 2nd Avenue
New York, New York

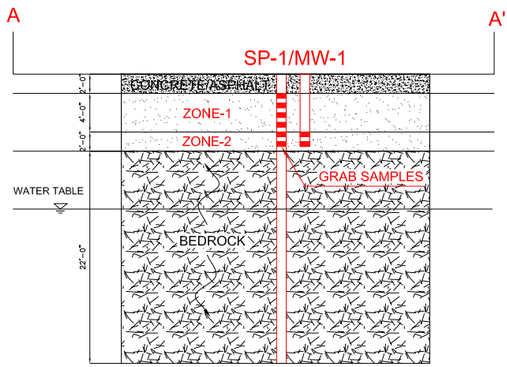
IMPACT ENVIRONMENTAL

170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599

1560 BROADWAY, SUITE 1024
NEW YORK, NEW YORK 10036
TEL (212) 201-7905 FAX (212) 201-7906

New York State Geographic Information System
2010 Half Foot Natural Color Long Island Zone





NOTE:

FField observation indicated that bedrock exists at approximately 8 ft BEG instead of 15 ft as previously anticipated. Accordingly, the number of the sampling zones were reduced from three (3) to two (2), with Zone-1 from 2 to 6 ft BEG (grade to 2 ft are concrete, asphalt and Belgium block), and Zone-2 from 6 ft to 8 ft BEG. It is estimated that Zone-1 contains 95 cubic yard of soil, and Zone -2 contains 48 cubic yard of soil.

Legend

- Monitoring Well
- Soil Probe

TITLE: Sample Acquisition Plan

New North Shaft Location, 86th Street, New York, New York

DRAWN BY:	WF	PROJECT #	1917-03-01-1004
CHECKED BY:	KK		
DATE:	3-17-2011	PLATE #	02
SCALE:	1/32" = 1'		

IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599

1560 BROADWAY, SUITE 1024
NEW YORK, NEW YORK 10036
TEL (212) 201-7905 FAX (212) 201-7906

Table 1: Sample Code, Depth and Analysis Scheme
New North Shaft Location

Zone Code	Depth	Sampling Code	Sample Depth (ft)	Total Samples	Grab/Comp	TAL/TCL	Full TCLP
Zone-1	2'-6'	ZONE-1-2	2	4	One Grab and One 4-Pt Comp	1	1
		ZONE-1-3	3				
		ZONE-1-4	4				
		ZONE-1-5	5				
Zone-2	6'-8'	ZONE-2-6	6	4	One Grab and One 4-Pt Comp	1	1
		ZONE-2-7	7				
		ZONE-2-6	6				
		ZONE-2 7	7				

Table 2: Laboratory Analysis Results for Spoils
New North Shaft Location

Parameter Name	NYCRR 375 Unrestricted Use	Zone-1 Grab	Zone-1 Comp	Zone-2 Grab	Zone-2 Comp
Sample ID		2/23/2011	2/23/2011	2/24/2011	2/24/2011
Unit	*ug/kg*	ug/kg	ug/kg	ug/kg	ug/kg
1,1,1,2-Tetrachloroethane	NA	<4.5	NA	<5.1	NA
1,1,1-Trichloroethane	680	<4.5	NA	<5.1	NA
1,1,2,2-Tetrachloroethane	NA	<4.5	NA	<5.1	NA
1,1,2-Trichloroethane	NA	<4.5	NA	<5.1	NA
1,1,2 Trichloro-1,2,2 Trifluoroethane	NA	<4.5	NA	<5.1	NA
1-1- Biphenyl	NA	<4.5	NA	<5.1	NA
1,1-Dichloroethane	270	<4.5	NA	<5.1	NA
1,1-Dichloroethene	330	<4.5	NA	<5.1	NA
1,1-Dichloropropene	NA	<4.5	NA	<5.1	NA
1,2,3-Trichlorobenzene	NA	<4.5	NA	<5.1	NA
1,2,3-Trichloropropane	NA	<4.5	NA	<5.1	NA
1,2,4,5-Tetramethylbenzene	NA	<4.5	NA	<5.1	NA
1,2,4-Trimethylbenzene	3,600	<4.5	NA	<5.1	NA
1,2-Dibromo-3-Chloropropane	NA	<4.5	NA	<5.1	NA
1,2-Dibromoethane	NA	<4.5	NA	<5.1	NA
1,2-Dichlorobenzene	1,100	<4.5	NA	<5.1	NA
1,2-Dichloroethane	20c	<4.5	NA	<5.1	NA
1,2-Dichloropropane	NA	<4.5	NA	<5.1	NA
1,3,5-Trimethylbenzene	8,400	<4.5	NA	<5.1	NA
1,3-Dichlorobenzene	2,400	<4.5	NA	<5.1	NA
1,3-Dichloropropane	NA	<4.5	NA	<5.1	NA
1,3-Dichloropropene(cis and trans)	NA	<4.5	NA	<5.1	NA
1,4-Dichlorobenzene	1,800	<4.5	NA	<5.1	NA
1,4-Dioxane	100b	<4.5	NA	<5.1	NA
2,2-Dichloropropane	NA	<4.5	NA	<5.1	NA
2-Butanone	NA	<4.5	NA	<5.1	NA
2-Chlorotoluene	NA	<4.5	NA	<5.1	NA
2-Hexanone	NA	<4.5	NA	<5.1	NA
2-Chloroethyl vinyl ether	NA	<4.5	NA	<5.1	NA
4-Chlorotoluene	NA	<4.5	NA	<5.1	NA
4-Methyl-2-Pentanone	NA	<4.5	NA	<5.1	NA
Acetone	50	<4.5	NA	<5.1	NA
Acrolein	NA	<4.5	NA	<5.1	NA
Acrylonitrile	NA	<4.5	NA	<5.1	NA
Benzene	60	<4.5	NA	<5.1	NA
Benzidine	NA	<4.5	NA	<5.1	NA
Bromobenzene	NA	<4.5	NA	<5.1	NA
Bromochloromethane	NA	<4.5	NA	<5.1	NA
Bromodichloromethane	NA	<4.5	NA	<5.1	NA
Bromoform	NA	<4.5	NA	<5.1	NA

Table 2: Laboratory Analysis Results for Spoils
New North Shaft Location

Parameter Name	NYCRR 375 Unrestricted Use	Zone-1 Grab	Zone-1 Comp	Zone-2 Grab	Zone-2 Comp
Sample ID		2/23/2011	2/23/2011	2/24/2011	2/24/2011
Bromomethane	NA	<4.5	NA	<5.1	NA
Carbon Disulfide	NA	<4.5	NA	<5.1	NA
Carbon Tetrachloride	760	<4.5	NA	<5.1	NA
Chlorobenzene	1,100	<4.5	NA	<5.1	NA
Chlorodibromomethane	NA	<4.5	NA	<5.1	NA
Chloroethane	NA	<4.5	NA	<5.1	NA
Chloroform	370	<4.5	NA	<5.1	NA
Chloromethane	NA	<4.5	NA	<5.1	NA
cis-1,2-Dichloroethene	250	<4.5	NA	<5.1	NA
cis-1,3-Dichloropropene	NA	<4.5	NA	<5.1	NA
Dibromomethane	NA	<4.5	NA	<5.1	NA
Dichlorodifluoromethane	NA	<4.5	NA	<5.1	NA
Ethylbenzene	1,000	<4.5	NA	<5.1	NA
Isopropylbenzene	NA	<4.5	NA	<5.1	NA
Methyl Acetate	NA	<4.5	NA	<5.1	NA
Methylene Chloride	50	<4.5	NA	<5.1	NA
Methyl Tert-Butyl Ether	930	<4.5	NA	<5.1	NA
Naphthalene	12,000	<4.5	<290	<5.1	<280
n-Butylbenzene	12,000	<4.5	NA	<5.1	NA
n-Propylbenzene	3,900	<4.5	NA	<5.1	NA
p-Diethylbenzene	NA	<4.5	NA	<5.1	NA
p-Ethyltoluene	NA	<4.5	NA	<5.1	NA
p-Isoproplytoluene	NA	<4.5	NA	<5.1	NA
sec-Butylbenzene	11,000	<4.5	NA	<5.1	NA
Styrene	NA	<4.5	NA	<5.1	NA
tert-Butylbenzene	5,900	<4.5	NA	<5.1	NA
Tertiary Butyl Alcohol	NA	<4.5	NA	<5.1	NA
Tetrachloroethene	1,300	<4.5	NA	<5.1	NA
Toluene	700	<4.5	NA	<5.1	NA
Total Xylenes	260	<4.5	NA	<5.1	NA
trans-1,2-Dichloroethene	190	<4.5	NA	<5.1	NA
trans-1,3-Dichloropropene	NA	<4.5	NA	<5.1	NA
Trichloroethene	470	<4.5	NA	<5.1	NA
Trichlorofluoromethane	NA	<4.5	NA	<5.1	NA
Vinyl Acetate	NA	<4.5	NA	<5.1	NA
Vinyl Chloride	20	<4.5	NA	<5.1	NA
Hexachlorobutadiene	NA	<4.5	NA	<5.1	NA

Table 2: Laboratory Analysis Results for Spoils
New North Shaft Location

Parameter Name	NYCRR 375 Unrestricted Use	Zone-1 Grab	Zone-1 Comp	Zone-2 Grab	Zone-2 Comp
Sample ID		2/23/2011	2/23/2011	2/24/2011	2/24/2011
1,2- Diphenylhydrazine	NA	NA	<290	NA	<280
1,2,4-Trichlorobenzene	NA	NA	<290	NA	<280
2,4,5-Trichlorophenol	NA	NA	<290	NA	<280
2,4,6-Trichlorophenol	NA	NA	<290	NA	<280
2,4-Dichlorophenol	NA	NA	<290	NA	<280
2,4-Dimethylphenol	NA	NA	<290	NA	<280
2,4-Dinitrophenol	NA	NA	<290	NA	<280
2,4-Dinitrotoluene	NA	NA	<290	NA	<280
2,6-Dinitrotoluene	NA	NA	<290	NA	<280
2-Chloronaphthalene	NA	NA	<290	NA	<280
2-Chlorophenol	NA	NA	<290	NA	<280
2-Methylnaphthalene	NA	NA	<290	NA	<280
2-Methylphenol	330b	NA	<290	NA	<280
2-Nitroaniline	NA	NA	<290	NA	<280
2-Nitrophenol	NA	NA	<290	NA	<280
3+4 Methylphenol	NA	NA	<290	NA	<280
3,3-Dichlorobenzidine	NA	NA	<290	NA	<280
m-Cresol(s)	330b	NA	<290	NA	<280
3-Nitroaniline	NA	NA	<290	NA	<280
4,6-Dinitro-2-methylphenol	NA	NA	<290	NA	<280
4-Bromophenyl-phenyl ether	NA	NA	<290	NA	<280
4-Chloro-3-methylphenol	NA	NA	<290	NA	<280
4-Chloroaniline	NA	NA	<290	NA	<280
4-Chlorophenyl phenyl ether	NA	NA	<290	NA	<280
4-Methylphenol	330b	NA	<290	NA	<280
4-Nitroaniline	NA	NA	<290	NA	<280
4-Nitrophenol	NA	NA	<290	NA	<280
Acenaphthene	20,000	NA	<290	NA	<280
Acenaphthylene	100,000a	NA	<290	NA	<280
Acetophenone	NA	NA	<290	NA	<280
Aniline	NA	NA	<290	NA	<280
Anthracene	100,000a	NA	<290	NA	<280
Atrazine	NA	NA	<290	NA	<280
Benzaldehyde	NA	NA	<290	NA	<280
Benzo-a-Anthracene	1,000c	NA	<290	NA	<280
Benzo-a-Pyrene	1,000c	NA	<140	NA	<140
Benzo-b-Fluoranthene	1,000c	NA	<290	NA	<280
Benzo-k-Fluoranthene	800c	NA	<290	NA	<280

Table 2: Laboratory Analysis Results for Spoils
New North Shaft Location

Parameter Name	NYCRR 375 Unrestricted Use	Zone-1 Grab	Zone-1 Comp	Zone-2 Grab	Zone-2 Comp
Sample ID		2/23/2011	2/23/2011	2/24/2011	2/24/2011
Benzo-g,h,i-Perylene	100,000	NA	<290	NA	<280
Benzoic Acid	NA	NA	<290	NA	<280
Benzyl Alcohol	NA	NA	<290	NA	<280
Bis(2-Chloroethoxy)methane	NA	NA	<290	NA	<280
Bis(2-Chloroethyl)ether	NA	NA	<290	NA	<280
Bis(2-Chloroisopropyl)ether	NA	NA	<290	NA	<280
Bis(2-Ethylhexyl)Phthalate	NA	NA	<290	NA	<280
Butylbenzylphthalate	NA	NA	<290	NA	<280
Caprolactam	NA	NA	<290	NA	<280
Carbazole	NA	NA	<290	NA	<280
Chrysene	1,000c	NA	<290	NA	<280
Dibenzofuran	7,000	NA	<290	NA	<280
Dibenzo-a,h-Anthracene	330b	NA	<290	NA	<280
Diethyl Phthalate	NA	NA	<290	NA	<280
Dimethyl Phthalate	NA	NA	<290	NA	<280
Di-n-Butyl Phthalate	NA	NA	<290	NA	<280
Dinitrotoluene(2,4-/2,6-)	NA	NA	<290	NA	<280
Di-n-Octyl Phthalate	NA	NA	<290	NA	<280
Fluoranthene	100,000	NA	<290	NA	<280
Fluorene	30,000	NA	<290	NA	<280
Hexachlorobenzene	330	NA	<290	NA	<280
Hexachlorocyclopentadiene	NA	NA	<290	NA	<280
Hexachloroethane	NA	NA	<290	NA	<280
Indeno(1,2,3-cd)Pyrene	500c	NA	<290	NA	<280
Isophorone	NA	NA	<290	NA	<280
Nitrobenzene	NA	NA	<290	NA	<280
N-Nitrosodimethylamine	NA	NA	<290	NA	<280
N-Nitroso-di-n-Propylamine	NA	NA	<290	NA	<280
N-Nitrosodiphenylamine	NA	NA	<290	NA	<280
Pentachlorophenol	800b	NA	<290	NA	<280
Phenanthrene	100,000	NA	<290	NA	<280
Phenol	330b	NA	<290	NA	<280
Pyrene	100,000	NA	<290	NA	<280

Table 2: Laboratory Analysis Results for Spoils
New North Shaft Location

Parameter Name	NYCRR 375 Unrestricted Use	Zone-1 Grab	Zone-1 Comp	Zone-2 Grab	Zone-2 Comp
Sample ID		2/23/2011	2/23/2011	2/24/2011	2/24/2011
2,4,5-T	NA	NA	<100	NA	<100
2,4,5-TP Acid	3,800	NA	<100	NA	<100
2,4-D	NA	NA	<100	NA	<100
2,4-DB	NA	NA	<100	NA	<100
4,4-DDD	3.3b	NA	<2.2	NA	<2.2
4,4-DDE	3.3b	NA	<2.2	NA	<2.2
4,4-DDT	3.3b	NA	<2.2	NA	<2.2
Aldrin	5c	NA	<2.2	NA	<2.2
alpha-BHC	20	NA	<2.2	NA	<2.2
Aroclor 1016	NA	NA	<55	NA	<58
Aroclor 1221	NA	NA	<55	NA	<58
Aroclor 1232	NA	NA	<55	NA	<58
Aroclor 1242	NA	NA	<55	NA	<58
Aroclor 1248	NA	NA	<55	NA	<58
Aroclor 1254	NA	NA	<55	NA	<58
Aroclor 1260	NA	NA	<55	NA	<58
beta-BHC	36	NA	<2.2	NA	<2.2
Chlordane	94	NA	<120	NA	<110
delta-BHC	40	NA	<2.2	NA	<2.2
Dieldrin	5	NA	<2.2	NA	<2.2
Endosulfan	NA	NA	<2.2	NA	<2.2
Endosulfan I	2,400	NA	<2.2	NA	<2.2
Endosulfan II	2,400	NA	<2.2	NA	<2.2
Endosulfan Sulfate	2,400	NA	<2.2	NA	<2.2
Endrin	14	NA	<2.2	NA	<2.2
Endrin Aldehyde	NA	NA	<2.2	NA	<2.2
Endrin Ketone	NA	NA	<2.2	NA	<2.2
gamma-BHC	100	NA	<2.2	NA	<2.2
Heptachlor	42	NA	<2.2	NA	<2.2
Heptachlor Epoxide	NA	NA	<2.2	NA	<2.2
Methoxychlor	NA	NA	<2.2	NA	<2.2
Mitotane	NA	NA	<2.2	NA	<2.2
Parathion	NA	NA	<30	NA	<30
Polychlorinated Biphenyls	100	NA	<55	NA	<58
Toxaphene	NA	NA	<240	NA	<110

Table 2: Laboratory Analysis Results for Spoils
New North Shaft Location

Parameter Name	NYCRR 375 Unrestricted Use	Zone-1 Grab	Zone-1 Comp	Zone-2 Grab	Zone-2 Comp
Sample ID		2/23/2011	2/23/2011	2/24/2011	2/24/2011
Unit	*mg/kg*	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum, Al	NA	NA	10418	NA	27543
Antimony, Sb	NA	NA	<4.77	NA	<5.43
Arsenic, As	13c	NA	4.22	NA	2.89
Barium, Ba	350c	NA	92.1	NA	359
Beryllium, Be	7.2	NA	<0.477	NA	0.598
Cadmium, Cd	2.5c	NA	1.88	NA	4.47
Calcium, Ca	NA	NA	7902	NA	11299
Chromium, Cr	NA	NA	19.2	NA	48.7
Chromium, hexavalent	1b	NA	<0.5	NA	<0.5
Chromium, trivalent	30c	NA	19.2	NA	48.7
Cobalt, Co	NA	NA	11.4	NA	40.7
Copper, Cu	50	NA	29.9	NA	91.7
Cyanide	27	NA	<0.2	NA	<0.2
Iron, Fe	NA	NA	19146	NA	43176
Lead, Pb	63c	NA	17.6	NA	9.9
Magnesium, Mg	NA	NA	3297	NA	13306
Manganese, Mn	1,600c	NA	775	NA	1805
Mercury (inorganic salts)	1.2	NA	<0.5	NA	<0.5
Mercury, Hg	.18c	NA	<0.106	NA	<0.102
Nickel, Ni	30	NA	17.4	NA	58.3
Potassium, K	NA	NA	2170	NA	10182
Selenium, Se	3.9c	NA	<4.77	NA	<5.43
Silver, Ag	2	NA	<0.954	NA	<1.09
Sodium, Na	NA	NA	886	NA	<543
Thallium, Ti	NA	NA	<2.38	NA	<2.72
Vanadium, V	NA	NA	33.3	NA	93.5
Zinc, Zn	109c	NA	41.4	NA	80.8

Table 3: Spoil Classification
New North Shaft Location

Sample Location	***Depth***	***Spoil Volume (Cubic Yards)***	***Classification***
Zone 1	2'-6'	95	Non-hazardous contaminated *below* NYCRR 375 Unrestricted Use
Zone 2	6'-8'	48	Non-hazardous contaminated *above* NYCRR 375 Unrestricted Use

Table 4: Laboratory Analysis Results for Groundwater
New North Shaft Location

Parameter1	NYCDEP Sewer Discharge Daily Limit	Units	MW-1 (3/9/2011)
Non-polar material	50	mg/l	1.56
pH	5 to 12	SU's	7.46
Temperature	<150	Degree F	
Flash Point	>140	Degree F	>200
Cadmium	2	mg/L	<0.003
Chromium (VI)	5	mg/L	<0.01
Copper	5	mg/L	<0.005
Lead	2	mg/L	<0.003
Mercury	0.05	mg/L	<0.0002
Nickel	3	mg/L	<0.005
Zinc	5	mg/L	<0.02
Benzene	134	ppb	<5
Carbon tetrachloride	---	---	<5
Chloroform	---	---	<5
1,4 Dichlorobenzene	---	---	<5
Ethylbenzene	380	ppb	<5
MTBE	50	ppb	<5
Naphthalene	47	ppb	<5.71
Phenol	---	---	<0.05
Tetrachloroethylene	20	ppb	<5
Toluene	74	ppb	<5
1,2,4 Trichlorobenzene	---	---	<5
1,1,1 Trichloroethane	---	---	<5
Xylenes (Total)	74	ppb	<15
PCB's (Total)	1	ppb	<0.513
Total Suspended Solids (TSS)	350	mg/L	512
Carbonaceous BOD	---	mg/L	98
Chloride	---	mg/L	425
Total Nitrogen	---	mg/L	5.23
Total Solids	---	mg/L	2370

Note:
The groundwater sample was collected by Mortrench on March 9, 2011.

Appendix A
Spoil Sampling Log

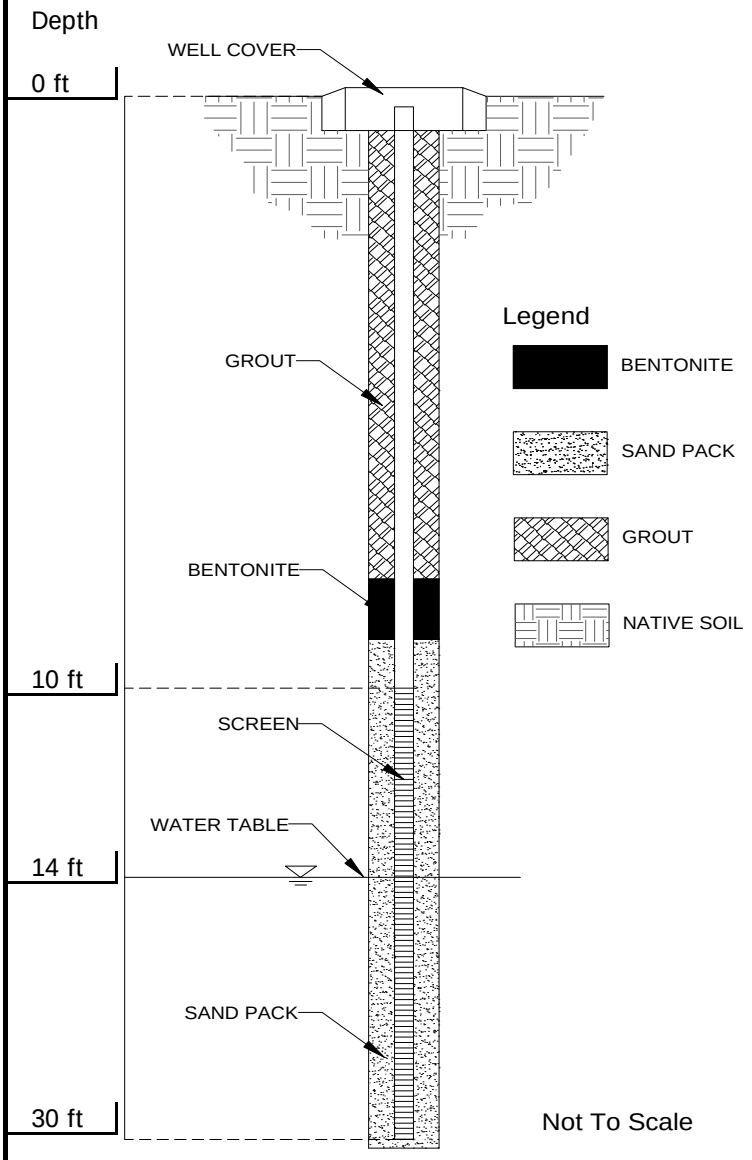
Impact Environmental Soil Boring Log		Probe Code:	SP-1
Site Location:	New North Shaft Location	**Installer:**	ADT
Job Number:	1917-03-01-1004	**Installation Method:**	hand tools and split spoon
Client:	J.D'Annunzio & Sons, Inc.	**Installation Date:**	2/24/2011
Location:		**Geologist:**	WF

Depth BEG (ft.)	Soil Type	Soil Color	PID Reading	Comments
0'-2'	concrete, asphalt, cobble, Belgium block	gray/black	0.0	
2'-3'	C-M sand and gravel	dark brown	1.3	
3'-4'	M-F sand, and some gravel	dark brown	0.6	
4'-5'	F sand, loam, little gravel	dark brown	0.3	
5'-6'	F sand, loam, little gravel	dark brown	0.0	
6'-7'	M-F sand, loam, gravel, weathered schist	dark brown	0.0	
7'-7.5'	weathered shist	dark brown	0.0	Refusal at 7.5', mutiple locations

Appendix B
Monitoring Well Construction Log

Long Island | 170 Keyland Court | Bohemia, NY 11716 | Tel: 631.269.8800 Fax: 631.269.1599
Manhattan | 1560 Broadway, Suite1024 | New York, NY 10036 | Tel: 212.201.7905 Fax: 212.202.4079
www.impactenvironmental.com

		Well Code:	**MW-1**
		Installer:	ADT
		Installation Method:	Reversed air rotary
		Installation Date:	2/25/2011
Site Location:	New North Shaft Location	**Geologist:**	WF
Job Number:	1917-03-01-1004	**Coordinates**	
Client:	J.D'Annunzio & Sons, Inc.	**(State Plane NAD 84):**	
Location:		**Elevation:**	



Surface Pad
- Type: cement

Well Cap
- Type: 2"

Surface Casing
- Type: 8 inch

Riser Pipe
- Type: Sch. 40 PVC
- Diameter: 2 inch
- Length: 10 ft
- Interval (BEG): 0 ft to 10 ft

Annular Seal
- Type: Grout
- Length: 6 ft
- Interval (BEG): 0 ft to 6 ft

Bentonite Seal
- Type: granular
- Length: 1 ft
- Interval (BEG) 6 ft to 7 ft

Filter Pack
- Type: #1 morris sand
- Length: 22 ft
- Interval (BEG) 8 ft to 30 ft

Screen
- Type: Sch. 40 PVC
- Diameter 2 inch
- Length: 20 ft
- Slot Size: 10-slot
- Interval (BEG): 10 ft to 30 ft

Appendix C
Laboratory Reports

Analytical Report

Impact Environmental: 1917
170 Keyland Ct
Bohemia, NY 11716

Report Date: 3/9/2011

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

Analytical Report

Impact Environmental: 1917

Mailing Information:
Name: Impact Environmental
Address: 170 Keyland Ct

City: Bohemia
State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 099803
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 1

Site: Grab **Date Collected:** 2/25/2011 **Date Received:** 2/28/2011
Preservative: N/A **Time Collected:** **Time Received:** 8:00:00 AM
Temperature: **Lab No.:** J1100960
Matrix: Soil

Date Analyzed	Test Name	Result	Method
03/02/11	1,1,1,2-Tetrachloroethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,1,1-Trichloroethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,1,2,2-Tetrachloroethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,1,2-Trichloroethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,1,2 Trichloro 1,2,2 Trifluoroeth	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,1 Biphenyl	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,1-Dichloroethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,1-Dichloroethene	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,1-Dichloropropene	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,2,3-Trichlorobenzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,2,3-Trichloropropane	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,2,4,5-tetramethylbenzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,2,4-Trimethylbenzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,2-Dibromo-3-Chloropropane	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,2-Dibromoethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,2-Dichlorobenzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,2-Dichloroethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,2-Dichloropropane	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,3,5-Trimethylbenzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,3-Dichlorobenzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,3-Dichloropropane	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,3-Dichloropropene(cis and tran	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,4-Dichlorobenzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	1,4-dioxane	<4.5 ug/kg dry	EPA 8260B
03/02/11	2,2-Dichloropropane	<4.5 ug/kg dry	EPA 8260B
03/02/11	2-Butanone (MEK)	<4.5 ug/kg dry	EPA 8260B
03/02/11	2-Chlorotoluene	<4.5 ug/kg dry	EPA 8260B
03/02/11	2-Hexanone	<4.5 ug/kg dry	EPA 8260B
03/02/11	2-chloroethylvinyl ether	<4.5 ug/kg dry	EPA 8260B
03/02/11	4-Chlorotoluene	<4.5 ug/kg dry	EPA 8260B
03/02/11	4-Methyl-2-pentanone (MIBK)	<4.5 ug/kg dry	EPA 8260B

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

Analytical Report

Impact Environmental: 1917

Mailing Information:
Name: Impact Environmental
Address: 170 Keyland Ct

City: Bohemia
State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 099803
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 1

Site: Grab
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100960

Date Analyzed	Test Name	Result	Method
03/02/11	Acetone	<4.5 ug/kg dry	EPA 8260B
03/02/11	Acrolein	<4.5 ug/kg dry	EPA 8260B
03/02/11	Acrylonitrile	<4.5 ug/kg dry	EPA 8260B
03/02/11	Benzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	Benzidine	<4.5 ug/kg dry	EPA 8260B
03/02/11	Bromobenzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	Bromochloromethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	Bromodichloromethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	Bromoform	<4.5 ug/kg dry	EPA 8260B
03/02/11	Bromomethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	Carbon disulfide	<4.5 ug/kg dry	EPA 8260B
03/02/11	Carbon tetrachloride	<4.5 ug/kg dry	EPA 8260B
03/02/11	Chlorobenzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	Chlorodibromomethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	Chloroethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	Chloroform	<4.5 ug/kg dry	EPA 8260B
03/02/11	Chloromethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	cis-1,2-Dichloroethene	<4.5 ug/kg dry	EPA 8260B
03/02/11	cis-1,3-Dichloropropene	<4.5 ug/kg dry	EPA 8260B
03/02/11	Dibromomethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	Dibromochloromethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	Dichlorodifluoromethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	Ethylbenzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	Hexachlorobutadiene	<4.5 ug/kg dry	EPA 8260B
03/02/11	Isopropylbenzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	Methyl Acetate	<4.5 ug/kg dry	EPA 8260B
03/02/11	Methyl isobutyl ketone (MIBK)	<4.5 ug/kg dry	EPA 8260B
03/02/11	Methylene Chloride	<4.5 ug/kg dry	EPA 8260B
03/02/11	MTBE	<4.5 ug/kg dry	EPA 8260B
03/02/11	Naphthalene	<4.5 ug/kg dry	EPA 8260B
03/02/11	n-Butylbenzene	<4.5 ug/kg dry	EPA 8260B

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

Analytical Report

Impact Environmental: 1917

Mailing Information:
Name: Impact Environmental
Address: 170 Keyland Ct

City: Bohemia
State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 099803
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 1

Site: Grab
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100960

Date Analyzed	Test Name	Result	Method
03/02/11	n-Propylbenzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	p-Diethylbenzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	p-Ethyltoluene	<4.5 ug/kg dry	EPA 8260B
03/02/11	p-Isoproplytoluene	<4.5 ug/kg dry	EPA 8260B
03/02/11	sec-Butylbenzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	Styrene	<4.5 ug/kg dry	EPA 8260B
03/02/11	tert-Butylbenzene	<4.5 ug/kg dry	EPA 8260B
03/02/11	TBA	<4.5 ug/kg dry	EPA 8260B
03/02/11	Tetrachloroethene	<4.5 ug/kg dry	EPA 8260B
03/02/11	Toluene	<4.5 ug/kg dry	EPA 8260B
03/02/11	Xylenes, Total	<4.5 ug/kg dry	EPA 8260B
03/02/11	trans-1,2-Dichloroethene	<4.5 ug/kg dry	EPA 8260B
03/02/11	trans-1,3-Dichloropropene	<4.5 ug/kg dry	EPA 8260B
03/02/11	Trichloroethene	<4.5 ug/kg dry	EPA 8260B
03/02/11	Trichlorofluoromethane	<4.5 ug/kg dry	EPA 8260B
03/02/11	Vinyl Acetate	<4.5 ug/kg dry	EPA 8260B
03/02/11	Vinyl chloride	<4.5 ug/kg dry	EPA 8260B

ug/kg dry = micrograms per kilogram

Signature: Michael Lapman
Michael Lapman
President

Reviewed By: Michael Lapman
Michael Lapman,

State #: PH-0218 **ELAP #: NY 11715** **Ref Lab: Analysis by**

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

Analytical Report

Impact Environmental: 1917

Mailing Information:
Name: Impact Environmental
Address: 170 Keyland Ct

City: Bohemia
State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 099804
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 2

Site: Grab
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100961

Date Analyzed	Test Name	Result	Method
03/02/11	1,1,1,2-Tetrachloroethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,1,1-Trichloroethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,1,2,2-Tetrachloroethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,1,2-Trichloroethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,1,2 Trichloro 1,2,2 Trifluoroeth	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,1 Biphenyl	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,1-Dichloroethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,1-Dichloroethene	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,1-Dichloropropene	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,2,3-Trichlorobenzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,2,3-Trichloropropane	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,2,4,5-tetramethylbenzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,2,4-Trimethylbenzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,2-Dibromo-3-Chloropropane	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,2-Dibromoethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,2-Dichlorobenzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,2-Dichloroethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,2-Dichloropropane	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,3,5-Trimethylbenzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,3-Dichlorobenzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,3-Dichloropropane	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,3-Dichloropropene(cis and tran	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,4-Dichlorobenzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	1,4-dioxane	<5.1 ug/kg dry	EPA 8260B
03/02/11	2,2-Dichloropropane	<5.1 ug/kg dry	EPA 8260B
03/02/11	2-Butanone (MEK)	<5.1 ug/kg dry	EPA 8260B
03/02/11	2-Chlorotoluene	<5.1 ug/kg dry	EPA 8260B
03/02/11	2-Hexanone	<5.1 ug/kg dry	EPA 8260B
03/02/11	2-chloroethylvinyl ether	<5.1 ug/kg dry	EPA 8260B
03/02/11	4-Chlorotoluene	<5.1 ug/kg dry	EPA 8260B
03/02/11	4-Methyl-2-pentanone (MIBK)	<5.1 ug/kg dry	EPA 8260B

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

Analytical Report

Impact Environmental: 1917

Mailing Information:
Name: Impact Environmental
Address: 170 Keyland Ct

City: Bohemia
State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 099804
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 2

Site: Grab **Date Collected:** 2/25/2011 **Date Received:** 2/28/2011
Preservative: N/A **Time Collected:** **Time Received:** 8:00:00 AM
Temperature: **Lab No.:** J1100961
Matrix: Soil

Date Analyzed	Test Name	Result	Method
03/02/11	Acetone	<5.1 ug/kg dry	EPA 8260B
03/02/11	Acrolein	<5.1 ug/kg dry	EPA 8260B
03/02/11	Acrylonitrile	<5.1 ug/kg dry	EPA 8260B
03/02/11	Benzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	Benzidine	<5.1 ug/kg dry	EPA 8260B
03/02/11	Bromobenzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	Bromochloromethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	Bromodichloromethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	Bromoform	<5.1 ug/kg dry	EPA 8260B
03/02/11	Bromomethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	Carbon disulfide	<5.1 ug/kg dry	EPA 8260B
03/02/11	Carbon tetrachloride	<5.1 ug/kg dry	EPA 8260B
03/02/11	Chlorobenzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	Chlorodibromomethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	Chloroethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	Chloroform	<5.1 ug/kg dry	EPA 8260B
03/02/11	Chloromethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	cis-1,2-Dichloroethene	<5.1 ug/kg dry	EPA 8260B
03/02/11	cis-1,3-Dichloropropene	<5.1 ug/kg dry	EPA 8260B
03/02/11	Dibromomethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	Dibromochloromethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	Dichlorodifluoromethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	Ethylbenzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	Hexachlorobutadiene	<5.1 ug/kg dry	EPA 8260B
03/02/11	Isopropylbenzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	Methyl Acetate	<5.1 ug/kg dry	EPA 8260B
03/02/11	Methyl isobutyl ketone (MIBK)	<5.1 ug/kg dry	EPA 8260B
03/02/11	Methylene Chloride	<5.1 ug/kg dry	EPA 8260B
03/02/11	MTBE	<5.1 ug/kg dry	EPA 8260B
03/02/11	Naphthalene	<5.1 ug/kg dry	EPA 8260B
03/02/11	n-Butylbenzene	<5.1 ug/kg dry	EPA 8260B

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

Analytical Report

Impact Environmental: 1917

Mailing Information:
Name: Impact Environmental
Address: 170 Keyland Ct

City: Bohemia
State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 099804
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 2

Site: Grab **Date Collected:** 2/25/2011 **Date Received:** 2/28/2011
Preservative: N/A **Time Collected:** **Time Received:** 8:00:00 AM
Temperature: **Lab No.:** J1100961
Matrix: Soil

Date Analyzed	Test Name	Result	Method
03/02/11	n-Propylbenzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	p-Diethylbenzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	p-Ethyltoluene	<5.1 ug/kg dry	EPA 8260B
03/02/11	p-Isoproplytoluene	<5.1 ug/kg dry	EPA 8260B
03/02/11	sec-Butylbenzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	Styrene	<5.1 ug/kg dry	EPA 8260B
03/02/11	tert-Butylbenzene	<5.1 ug/kg dry	EPA 8260B
03/02/11	TBA	<5.1 ug/kg dry	EPA 8260B
03/02/11	Tetrachloroethene	<5.1 ug/kg dry	EPA 8260B
03/02/11	Toluene	<5.1 ug/kg dry	EPA 8260B
03/02/11	Xylenes, Total	<5.1 ug/kg dry	EPA 8260B
03/02/11	trans-1,2-Dichloroethene	<5.1 ug/kg dry	EPA 8260B
03/02/11	trans-1,3-Dichloropropene	<5.1 ug/kg dry	EPA 8260B
03/02/11	Trichloroethene	<5.1 ug/kg dry	EPA 8260B
03/02/11	Trichlorofluoromethane	<5.1 ug/kg dry	EPA 8260B
03/02/11	Vinyl Acetate	<5.1 ug/kg dry	EPA 8260B
03/02/11	Vinyl chloride	<5.1 ug/kg dry	EPA 8260B

ug/kg dry = micrograms per kilogram

Signature: Michael Lapman
Michael Lapman
President

Reviewed By: Michael Lapman
Michael Lapman,

State #: PH-0218 **ELAP #: NY 11715** **Ref Lab: Analysis by**

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

Analytical Report

Impact Environmental: 1917

Mailing Information:
Name: Impact Environmental
Address: 170 Keyland Ct

City: Bohemia
State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 100056
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 1

Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100962

Date Analyzed	Test Name	Result	Method
02/28/11	% Solid	92.18 %	% Solid
03/08/11	TPH (8015)	116 mg/kg dry	8015 Modified
03/02/11	Corrosivity	Negative	S423/E150.1
03/02/11	Ignitability	Passed	SW 846-7.3
03/02/11	Reactivity	Negative	SW 846-7.3
03/07/11	TCLP 4,4'-DDD	<0.02 ug/L	E 8081A
03/07/11	TCLP 4,4'-DDE	<0.02 ug/L	E 8081A
03/07/11	TCLP 4,4'-DDT	<0.02 ug/L	E 8081A
03/07/11	TCLP Aldrin	<0.02 ug/L	E 8081A
03/07/11	TCLP alpha-BHC	<0.02 ug/L	E 8081A
03/07/11	TCLP beta-BHC	<0.02 ug/L	E 8081A
03/07/11	TCLP Chlordane, alpha	<0.02 ug/L	E 8081A
03/07/11	TCLP delta-BHC	<0.02 ug/L	E 8081A
03/07/11	TCLP Dieldrin	<0.02 ug/L	E 8081A
03/07/11	TCLP Endosulfan I	<0.02 ug/L	E 8081A
03/07/11	TCLP Endosulfan II	<0.02 ug/L	E 8081A
03/07/11	TCLP Endosulfan Sulfate	<0.02 ug/L	E 8081A
03/07/11	TCLP Endrin	<0.02 ug/L	E 8081A
03/07/11	TCLP Endrin Aldehyde	<0.02 ug/L	E 8081A
03/07/11	TCLP Endrin Ketone	<0.02 ug/L	E 8081A
03/07/11	TCLP gamma-BHC (Lindane)	<0.02 ug/L	E 8081A
03/07/11	TCLP Heptachlor	<0.02 ug/L	E 8081A
03/07/11	TCLP Heptachlor Epoxide	<0.02 ug/L	E 8081A
03/07/11	TCLP Methoxychlor	<0.02 ug/L	E 8081A
03/07/11	TCLP Mitotane	<0.02 ug/L	E 8081A
03/07/11	TCLP Toxaphene	<1 ug/L	E 8081A
03/07/11	TCLP 1,1,1-Trichloroethane	<5 ug/L	E 8260B
03/07/11	TCLP 1,1,2,2-Tetrachloroethane	<5 ug/L	E 8260B
03/07/11	TCLP 1,1,2-Trichloroethane	<5 ug/L	E 8260B
03/07/11	TCLP 1,1-Dichloroethane	<5 ug/L	E 8260B

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

Analytical Report

Impact Environmental: 1917

Mailing Information:
Name: Impact Environmental
Address: 170 Keyland Ct

City: Bohemia
State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 100056
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 1

Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100962

Date Analyzed	Test Name	Result	Method
03/07/11	TCLP 1,1-Dichloroethene	<5 ug/L	E 8260B
03/07/11	TCLP 1,1-Dichloropropene	<5 ug/L	E 8260B
03/07/11	TCLP 1,2,3-Trichlorobenzene	<5 ug/L	E 8260B
03/07/11	TCLP 1,2,3-Trichloropropane	<5 ug/L	E 8260B
03/07/11	TCLP 1,2,4,5-Tetramethylbenze	<5 ug/L	E 8260B
03/07/11	TCLP 1,2,4-Trichlorobenzene	<5 ug/L	E 8260B
03/07/11	TCLP 1,2,4-Trimethylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP 1,2-Dibromo-3-chloroprop	<5 ug/L	E 8260B
03/07/11	TCLP 1,2-Dibromoethane	<5 ug/L	E 8260B
03/07/11	TCLP 1,2-Dichlorobenzene	<5 ug/L	E 8260B
03/07/11	TCLP 1,2-Dichloroethane	<5 ug/L	E 8260B
03/07/11	TCLP 1,2-Dichloropropane	<5 ug/L	E 8260B
03/07/11	TCLP 1,3,5-Trimethylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP 1,3-Dichlorobenzene	<5 ug/L	E 8260B
03/07/11	TCLP 1,3-Dichloropropane	<5 ug/L	E 8260B
03/07/11	TCLP 1,3-Dichloropropene	<5 ug/L	E 8260B
03/07/11	TCLP 1,4-Dichlorobenzene	<5 ug/L	E 8260B
03/07/11	TCLP 1,4-Dioxane	<5 ug/L	E 8260B
03/07/11	TCLP 2,2-Dichloropropene	<5 ug/L	E 8260B
03/07/11	TCLP 2-Butanone	<5 ug/L	E 8260B
03/07/11	TCLP 2-Chlorotoluene	<5 ug/L	E 8260B
03/07/11	TCLP 2-Hexanone	<5 ug/L	E 8260B
03/07/11	TCLP 4-Chlorotoluene	<5 ug/L	E 8260B
03/07/11	TCLP Acetone	<5 ug/L	E 8260B
03/07/11	TCLP Acrylonitrile	<5 ug/L	E 8260B
03/07/11	TCLP Benzene	<5 ug/L	E 8260B
03/07/11	TCLP Bromobenzene	<5 ug/L	E 8260B
03/07/11	TCLP Bromochloromethane	<5 ug/L	E 8260B
03/07/11	TCLP Bromodichloromethane	<5 ug/L	E 8260B
03/07/11	TCLP Bromoform	<5 ug/L	E 8260B
03/07/11	TCLP Bromomethane	<5 ug/L	E 8260B

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

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State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 100056
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 1

Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100962

Date Analyzed	Test Name	Result	Method
03/07/11	TCLP Carbon disulfide	<5 ug/L	E 8260B
03/07/11	TCLP Carbon Tetrachloride	<5 ug/L	E 8260B
03/07/11	TCLP Chlorobenzene	<5 ug/L	E 8260B
03/07/11	TCLP Chlorodibromomethane	<5 ug/L	E 8260B
03/07/11	TCLP Chloroethane	<5 ug/L	E 8260B
03/07/11	TCLP Chloroform	<5 ug/L	E 8260B
03/07/11	TCLP Chloromethane	<5 ug/L	E 8260B
03/07/11	TCLP cis-1,2-Dichloroethene	<5 ug/L	E 8260B
03/07/11	TCLP cis-1,3-Dichloropropane	<5 ug/L	E 8260B
03/07/11	TCLP Dibromoethane	<5 ug/L	E 8260B
03/07/11	TCLP Dichlorodifluoromethane	<5 ug/L	E 8260B
03/07/11	TCLP Ethylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP Freon 113	<5 ug/L	E 8260B
03/07/11	TCLP Hexachlorobutadiene	<5 ug/L	E 8260B
03/07/11	TCLP Isopropylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP Methyl isobutyl ketone	<5 ug/L	E 8260B
03/07/11	TCLP Methylene Chloride	<5 ug/L	E 8260B
03/07/11	TCLP MTBE	<5 ug/L	E 8260B
03/07/11	TCLP Naphthalene	<5 ug/L	E 8260B
03/07/11	TCLP n-Butylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP n-Propylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP p-Diethylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP p-Ethyltoluene	<5 ug/L	E 8260B
03/07/11	TCLP p-Isopropyltoluene	<5 ug/L	E 8260B
03/07/11	TCLP sec-Butylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP Styrene	<5 ug/L	E 8260B
03/07/11	TCLP Tert-Butylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP Tetrachloroethene	<5 ug/L	E 8260B
03/07/11	TCLP Toluene	<5 ug/L	E 8260B
03/07/11	TCLP trans-1,2-Dichloroethene	<5 ug/L	E 8260B
03/07/11	TCLP trans-1,3-Dichloropropane	<5 ug/L	E 8260B

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

Analytical Report

Impact Environmental: 1917

Mailing Information:
Name: Impact Environmental
Address: 170 Keyland Ct

City: Bohemia
State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 100056
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 1

Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100962

Date Analyzed	Test Name	Result	Method
03/07/11	TCLP Trichloroethene	<5 ug/L	E 8260B
03/07/11	TCLP Trichlorofluoromethane	<5 ug/L	E 8260B
03/07/11	TCLP Vinyl Acetate	<5 ug/L	E 8260B
03/07/11	TCLP Vinyl Chloride	<5 ug/L	E 8260B
03/07/11	TCLP Xylenes, Total	<5 ug/L	E 8260B
03/07/11	TCLP 2,4,5-Trichlorophenol	<10 ug/L	E 8270C
03/07/11	TCLP 2,4,6-Trichlorophenol	<10 ug/L	E 8270C
03/07/11	TCLP 2,4-Dichlorophenol	<10 ug/L	E 8270C
03/07/11	TCLP 2,4-Dimethylphenol	<10 ug/L	E 8270C
03/07/11	TCLP 2,4-Dinitrophenol	<10 ug/L	E 8270C
03/07/11	TCLP 2,4-Dinitrotoluene	<10 ug/L	E 8270C
03/07/11	TCLP 2,6-Dinitrotoluene	<10 ug/L	E 8270C
03/07/11	TCLP 2-Chloronaphthalene	<10 ug/L	E 8270C
03/07/11	TCLP 2-Chlorophenol	<10 ug/L	E 8270C
03/07/11	TCLP 2-Methylnaphthalene	<10 ug/L	E 8270C
03/07/11	TCLP 2-Methylphenol (o-Cresol)	<10 ug/L	E 8270C
03/07/11	TCLP 2-Nitroaniline	<10 ug/L	E 8270C
03/07/11	TCLP 2-Nitrophenol	<10 ug/L	E 8270C
03/07/11	TCLP 3,3'-Dichlorobenzidine	<10 ug/L	E 8270C
03/07/11	TCLP 3-Nitroaniline	<10 ug/L	E 8270C
03/07/11	TCLP 4-Bromophenyl Phenyl Et	<10 ug/L	E 8270C
03/07/11	TCLP 4-Chloro-3-Methylphenol	<10 ug/L	E 8270C
03/07/11	TCLP 4-Chloroaniline	<10 ug/L	E 8270C
03/07/11	TCLP 4-Chlorophenyl Phenyleth	<10 ug/L	E 8270C
03/07/11	TCLP 4-Methylphenol (p-Cresol)	<10 ug/L	E 8270C
03/07/11	TCLP 4-Nitroaniline	<10 ug/L	E 8270C
03/07/11	TCLP 4-Nitrophenol	<10 ug/L	E 8270C
03/07/11	TCLP Acenaphthene	<10 ug/L	E 8270C
03/07/11	TCLP Acenaphthylene	<10 ug/L	E 8270C
03/07/11	TCLP Aniline	<10 ug/L	E 8270C
03/07/11	TCLP Anthracene	<10 ug/L	E 8270C

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

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Name: Impact Environmental
Address: 170 Keyland Ct

City: Bohemia
State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 100056
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 1

Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100962

Date Analyzed	Test Name	Result	Method
03/07/11	TCLP Benzo(a)anthracene	<10 ug/L	E 8270C
03/07/11	TCLP Benzo(a)pyrene	<10 ug/L	E 8270C
03/07/11	TCLP Benzo(b)fluoranthene	<10 ug/L	E 8270C
03/07/11	TCLP Benzo(g,h,i)perylene	<10 ug/L	E 8270C
03/07/11	TCLP Benzo(k)fluoranthene	<10 ug/L	E 8270C
03/07/11	TCLP Benzyl Alcohol	<10 ug/L	E 8270C
03/07/11	TCLP Benzyl Butyl Phthalate	<10 ug/L	E 8270C
03/07/11	TCLP bis(2-Chloroethoxy)metha	<10 ug/L	E 8270C
03/07/11	TCLP bis(2-Chloroethyl) ether	<10 ug/L	E 8270C
03/07/11	TCLP bis(2-Chloroisopropyl) eth	<10 ug/L	E 8270C
03/07/11	TCLP bis(2-ethylhexyl)phthalate	<10 ug/L	E 8270C
03/07/11	TCLP Chrysene	<10 ug/L	E 8270C
03/07/11	TCLP Dibenz(a,h)anthracene	<10 ug/L	E 8270C
03/07/11	TCLP Dibenzofuran	<10 ug/L	E 8270C
03/07/11	TCLP Diethyl Phthalate	<10 ug/L	E 8270C
03/07/11	TCLP Dimethyl Phthalate	<10 ug/L	E 8270C
03/07/11	TCLP Di-N-Butylphthalate	<10 ug/L	E 8270C
03/07/11	TCLP Dinitrotoluene(2,4-/2,6-)	<10 ug/L	E 8270C
03/07/11	TCLP Di-n-octyl phthalate	<10 ug/L	E 8270C
03/07/11	TCLP Fluoranthene	<10 ug/L	E 8270C
03/07/11	TCLP Fluorene	<10 ug/L	E 8270C
03/07/11	TCLP Hexachlorobenzene	<10 ug/L	E 8270C
03/07/11	TCLP Hexachlorocyclopentadien	<10 ug/L	E 8270C
03/07/11	TCLP Hexachloroethane	<10 ug/L	E 8270C
03/07/11	TCLP Indeno(1,2,3-cd)pyrene	<10 ug/L	E 8270C
03/07/11	TCLP Isophorone	<10 ug/L	E 8270C
03/07/11	TCLP m-Cresol	<10 ug/L	E 8270C
03/07/11	TCLP Naphthalene	<10 ug/L	E 8270C
03/07/11	TCLP Nitrobenzene	<10 ug/L	E 8270C
03/07/11	TCLP n-Nitrosodiphenylamine	<10 ug/L	E 8270C
03/07/11	TCLP Pentachlorophenol	<10 ug/L	E 8270C

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

Analytical Report

Impact Environmental: 1917

Mailing Information:
Name: Impact Environmental
Address: 170 Keyland Ct

City: Bohemia
State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 100056
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 1

Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100962

Date Analyzed	Test Name	Result	Method
03/07/11	TCLP Phenanthrene	<10 ug/L	E 8270C
03/07/11	TCLP Phenol	<10 ug/L	E 8270C
03/07/11	TCLP Pyrene	<10 ug/L	E 8270C
03/07/11	TCLP Mercury	<0.005 mg/L	E1311/E245.1
03/07/11	TCLP Arsenic	<0.01 mg/L	E1311/SW6010
03/07/11	TCLP Barium	0.202 mg/L	E1311/SW6010
03/07/11	TCLP Cadmium	<0.005 mg/L	E1311/SW6010
03/07/11	TCLP Chromium	<0.05 mg/L	E1311/SW6010
03/07/11	TCLP Lead	<0.05 mg/L	E1311/SW6010
03/07/11	TCLP Selenium	<0.05 mg/L	E1311/SW6010
03/07/11	TCLP Silver	<0.01 mg/L	E1311/SW6010
03/04/11	1,2 Diphenylhydrazine	<290 ug/kg dry	EPA 8270C
03/04/11	1,2,4-Trichlorobenzene	<290 ug/kg dry	EPA 8270C
03/04/11	2,4,5-Trichlorophenol	<290 ug/kg dry	EPA 8270C
03/04/11	2,4,6-Trichlorophenol	<290 ug/kg dry	EPA 8270C
03/04/11	2,4-Dichlorophenol	<290 ug/kg dry	EPA 8270C
03/04/11	2,4-Dimethylphenol	<290 ug/kg dry	EPA 8270C
03/04/11	2,4-Dinitrophenol	<290 ug/kg dry	EPA 8270C
03/04/11	2,4-Dinitrotoluene	<290 ug/kg dry	EPA 8270C
03/04/11	2,6-Dinitrotoluene	<290 ug/kg dry	EPA 8270C
03/04/11	2-Chloronaphthalene	<290 ug/kg dry	EPA 8270C
03/04/11	2-Chlorophenol	<290 ug/kg dry	EPA 8270C
03/04/11	2-Methylnaphthalene	<290 ug/kg dry	EPA 8270C
03/04/11	2-Methylphenol (o-Cresol)	<290 ug/kg dry	EPA 8270C
03/04/11	2-Nitroaniline	<290 ug/kg dry	EPA 8270C
03/04/11	2-Nitrophenol	<290 ug/kg dry	EPA 8270C
03/04/11	3+4-methylphenol (m,p-cresol)	<290 ug/kg dry	EPA 8270C
03/04/11	3,3'-Dichlorobenzidine	<290 ug/kg dry	EPA 8270C
03/04/11	3-Methylphenol (m-cresol)	<290 ug/kg dry	EPA 8270C
03/04/11	3-Nitroaniline	<290 ug/kg dry	EPA 8270C

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

Analytical Report

Impact Environmental: 1917

Mailing Information:
Name: Impact Environmental
Address: 170 Keyland Ct

City: Bohemia
State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 100056
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 1

Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100962

Date Analyzed	Test Name	Result	Method
03/04/11	4,6-Dinitro-2-methylphenol	<290 ug/kg dry	EPA 8270C
03/04/11	4-Bromophenyl Phenyl Ether	<290 ug/kg dry	EPA 8270C
03/04/11	4-Chloro-3-Methylphenol	<290 ug/kg dry	EPA 8270C
03/04/11	4-Chloroaniline	<290 ug/kg dry	EPA 8270C
03/04/11	4-Chlorophenylphenyl ether	<290 ug/kg dry	EPA 8270C
03/04/11	4-Methylphenol (p-Cresol)	<290 ug/kg dry	EPA 8270C
03/04/11	4-Nitroaniline	<290 ug/kg dry	EPA 8270C
03/04/11	4-Nitrophenol	<290 ug/kg dry	EPA 8270C
03/04/11	Acenaphthene	<290 ug/kg dry	EPA 8270C
03/04/11	Acenaphthylene	<290 ug/kg dry	EPA 8270C
03/04/11	Acetophenone	<290 ug/kg dry	EPA 8270C
03/04/11	Aniline	<290 ug/kg dry	EPA 8270C
03/04/11	Anthracene	<290 ug/kg dry	EPA 8270C
03/04/11	Atrazine	<290 ug/kg dry	EPA 8270C
03/04/11	Benzo(a)anthracene	<290 ug/kg dry	EPA 8270C
03/04/11	Benzo(a)pyrene	<140 ug/kg dry	EPA 8270C
03/04/11	Benzo(b)fluoranthene	<290 ug/kg dry	EPA 8270C
03/04/11	Benzo(k)fluoranthene	<290 ug/kg dry	EPA 8270C
03/04/11	Benzo(g,h,i)perylene	<290 ug/kg dry	EPA 8270C
03/04/11	Benzoic Acid	<290 ug/kg dry	EPA 8270C
03/04/11	Benzyl Alcohol	<290 ug/kg dry	EPA 8270C
03/04/11	bis(2-Chloroethoxy)methane	<290 ug/kg dry	EPA 8270C
03/04/11	bis(2-Chloroethyl) ether	<290 ug/kg dry	EPA 8270C
03/04/11	bis(2-Chloroisopropyl) ether	<290 ug/kg dry	EPA 8270C
03/04/11	bis(2-ethylhexyl)phthalate	<290 ug/kg dry	EPA 8270C
03/04/11	Benzyl Butyl Phthalate	<290 ug/kg dry	EPA 8270C
03/04/11	Benzaldehyde	<290 ug/kg dry	EPA 8270C
03/04/11	Caprolactam	<290 ug/kg dry	EPA 8270C
03/04/11	Carbazole	<290 ug/kg dry	EPA 8270C
03/04/11	Chrysene	<290 ug/kg dry	EPA 8270C
03/04/11	Dibenzofuran	<290 ug/kg dry	EPA 8270C

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Preservative: N/A
Temperature:
Matrix: Soil

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Lab No.: J1100962

Date Analyzed	Test Name	Result	Method
03/04/11	Dibenz(a,h)anthracene	<290 ug/kg dry	EPA 8270C
03/04/11	Diethyl Phthalate	<290 ug/kg dry	EPA 8270C
03/04/11	Dimethyl Phthalate	<290 ug/kg dry	EPA 8270C
03/04/11	Di-n-Butyl phthalate	<290 ug/kg dry	EPA 8270C
03/04/11	Dinitrotoluene(2,4-/2,6-)	<290 ug/kg dry	EPA 8270C
03/04/11	Di-n-octyl phthalate	<290 ug/kg dry	EPA 8270C
03/04/11	Fluoranthene	<290 ug/kg dry	EPA 8270C
03/04/11	Fluorene	<290 ug/kg dry	EPA 8270C
03/04/11	Hexachlorobenzene	<290 ug/kg dry	EPA 8270C
03/04/11	Hexachlorocyclopentadiene	<290 ug/kg dry	EPA 8270C
03/04/11	Naphthalene	<290 ug/kg dry	EPA 8270C
03/04/11	Hexachloroethane	<290 ug/kg dry	EPA 8270C
03/04/11	Indeno(1,2,3-cd)pyrene	<290 ug/kg dry	EPA 8270C
03/04/11	Isophorone	<290 ug/kg dry	EPA 8270C
03/04/11	Nitrobenzene	<290 ug/kg dry	EPA 8270C
03/04/11	n-Nitrosodimethylamine	<290 ug/kg dry	EPA 8270C
03/04/11	n-Nitroso-di-n-Propylamine	<290 ug/kg dry	EPA 8270C
03/04/11	n-Nitroso-di-n-butylamine	<290 ug/kg dry	EPA 8270C
03/04/11	Phenol	<290 ug/kg dry	EPA 8270C
03/04/11	n-Nitrosodiphenylamine	<290 ug/kg dry	EPA 8270C
03/04/11	Pentachlorophenol	<290 ug/kg dry	EPA 8270C
03/04/11	Phenanthrene	<290 ug/kg dry	EPA 8270C
03/04/11	Pyrene	<290 ug/kg dry	EPA 8270C
03/04/11	2,4,5-T acid	<100 ug/kg	EPA 8151
03/04/11	2,4,5-TP acid	<100 ug/kg	EPA 8151
03/04/11	2,4-D acid	<100 ug/kg	EPA 8151
03/04/11	2,4-DB acid	<100 ug/kg	EPA 8151
03/04/11	4,4'-DDD	<2.2 ug/kg dry	EPA 8081A
03/04/11	4,4'-DDE	<2.2 ug/kg dry	EPA 8081A
03/04/11	4,4'-DDT	<2.2 ug/kg dry	EPA 8081A
03/04/11	Aldrin	<2.2 ug/kg dry	EPA 8081A

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Temperature:
Matrix: Soil

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Lab No.: J1100962

Date Analyzed	Test Name	Result	Method
03/04/11	a-BHC	<2.2 ug/kg dry	EPA 8081A
03/04/11	Arochlor 1016	<55 ug/kg dry	EPA 8082
03/04/11	Arochlor 1221	<55 ug/kg dry	EPA 8082
03/04/11	Arochlor 1232	<55 ug/kg dry	EPA 8082
03/04/11	Arochlor 1242	<55 ug/kg dry	EPA 8082
03/04/11	Arochlor 1248	<55 ug/kg dry	EPA 8082
03/04/11	Arochlor 1254	<55 ug/kg dry	EPA 8082
03/04/11	Arochlor 1260	<55 ug/kg dry	EPA 8082
03/04/11	b-BHC	<2.2 ug/kg dry	EPA 8081A
03/04/11	Chlordane	<120 ug/kg dry	EPA 8081A
03/04/11	d-BHC	<2.2 ug/kg dry	EPA 8081A
03/04/11	Endosulfan	<2.2 ug/kg dry	EPA 8081A
03/04/11	Dieldrin	<2.2 ug/kg dry	EPA 8081A
03/04/11	Endosulfan I	<2.2 ug/kg dry	EPA 8081A
03/04/11	Endosulfan II	<2.2 ug/kg dry	EPA 8081A
03/04/11	Endosulfan Sulfate	<2.2 ug/kg dry	EPA 8081A
03/04/11	Endrin	<2.2 ug/kg dry	EPA 8081A
03/04/11	Endrin Aldehyde	<2.2 ug/kg dry	EPA 8081A
03/04/11	Endrin Ketone	<2.2 ug/kg dry	EPA 8081A
03/04/11	Lindane	<2.2 ug/kg dry	EPA 8081A
03/04/11	Heptachlor	<2.2 ug/kg dry	EPA 8081A
03/04/11	Heptachlor epoxide	<2.2 ug/kg dry	EPA 8081A
03/04/11	Methoxychlor	<2.2 ug/kg dry	EPA 8081A
03/04/11	Mitotane	<2.2 ug/kg dry	EPA 8081A
03/04/11	Parathion	<30 ug/kg dry	EPA 8081A
03/04/11	Polychlorinated biphenyls (PCBs	<55 ug/kg dry	EPA 8082
03/04/11	Toxaphene	<240 ug/kg dry	EPA 8081A
03/04/11	Aluminum	10418 mg/kg dry	EPA 6010
03/04/11	Antimony	<4.77 mg/kg dry	EPA 6010
03/04/11	Arsenic	4.22 mg/kg dry	EPA 6010
03/04/11	Barium	92.1 mg/kg dry	EPA 6010

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Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 1

Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100962

Date Analyzed	Test Name	Result	Method
03/04/11	Beryllium	<0.477 mg/kg dry	EPA 6010
03/04/11	Cadmium	1.88 mg/kg dry	EPA 6010
03/04/11	Calcium	7902 mg/kg dry	EPA 6010
03/04/11	Chromium	19.2 mg/kg dry	EPA 6010
03/04/11	Chromium Hexavalent	<0.5 mg/kg dry	EPA 7196
03/04/11	Chromium, Trivalent	19.2 mg/kg dry	EPA 6010
03/04/11	Cobalt	11.4 mg/kg dry	EPA 6010
03/04/11	Copper	29.9 mg/kg dry	EPA 6010
03/04/11	Cyanide	<0.2 mg/kg dry	9010/ 335.3
03/04/11	Iron	19146 mg/kg dry	EPA 6010
03/04/11	Lead	17.6 mg/kg dry	EPA 6010
03/04/11	Magnesium	3297 mg/kg dry	EPA 6010
03/04/11	Manganese	775 mg/kg dry	EPA 6010
03/04/11	Mercury (inorganic salts)	<0.5 mg/kg dry	SW-7471
03/04/11	Mercury	<0.106 mg/kg dry	SW-7471
03/04/11	Nickel	17.4 mg/kg dry	EPA 6010
03/04/11	Potassium	2170 mg/kg dry	EPA 6010
03/04/11	Selenium	<4.77 mg/kg dry	EPA 6010
03/04/11	Silver	<0.954 mg/kg dry	EPA 6010
03/04/11	Sodium	886 mg/kg dry	EPA 6010
03/04/11	Thallium	<2.38 mg/kg dry	EPA 6010
03/04/11	Vanadium	33.3 mg/kg dry	EPA 6010
03/04/11	Zinc	41.4 mg/kg dry	EPA 6010

% = Percent
ppm = parts per million
ug/L = micrograms per liter
mg/kg dry = milligrams per kilogram- dry
ug/kg = micrograms per kilogram-dry
mg/L = milligrams per Liter
ug/kg dry = micrograms per kilogram

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Phone:

Sample's Information: **Sample ID:** Zone 1

Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
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Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100962

Signature: Michael Lapman
Michael Lapman
President

Reviewed By: Michael Lapman
Michael Lapman,

State #: PH-0218 **ELAP #: NY 11715** **Ref Lab: 11718,**

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

Analytical Report

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Address: 170 Keyland Ct

City: Bohemia
State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 100057
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 2

Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100963

Date Analyzed	Test Name	Result	Method
02/28/11	% Solid	89.05 %	% Solid
03/08/11	TPH (8015)	68 mg/kg dry	8015 Modified
03/02/11	Corrosivity	Negative	S423/E150.1
03/02/11	Ignitability	Passed	SW 846-7.3
03/02/11	Reactivity	Negative	SW 846-7.3
03/07/11	TCLP 4,4'-DDD	<0.02 ug/L	E 8081A
03/07/11	TCLP 4,4'-DDE	<0.02 ug/L	E 8081A
03/07/11	TCLP 4,4'-DDT	<0.02 ug/L	E 8081A
03/07/11	TCLP Aldrin	<0.02 ug/L	E 8081A
03/07/11	TCLP alpha-BHC	<0.02 ug/L	E 8081A
03/07/11	TCLP beta-BHC	<0.02 ug/L	E 8081A
03/07/11	TCLP Chlordane, alpha	<0.02 ug/L	E 8081A
03/07/11	TCLP delta-BHC	<0.02 ug/L	E 8081A
03/07/11	TCLP Dieldrin	<0.02 ug/L	E 8081A
03/07/11	TCLP Endosulfan I	<0.02 ug/L	E 8081A
03/07/11	TCLP Endosulfan II	<0.02 ug/L	E 8081A
03/07/11	TCLP Endosulfan Sulfate	<0.02 ug/L	E 8081A
03/07/11	TCLP Endrin	<0.02 ug/L	E 8081A
03/07/11	TCLP Endrin Aldehyde	<0.02 ug/L	E 8081A
03/07/11	TCLP Endrin Ketone	<0.02 ug/L	E 8081A
03/07/11	TCLP gamma-BHC (Lindane)	<0.02 ug/L	E 8081A
03/07/11	TCLP Heptachlor	<0.02 ug/L	E 8081A
03/07/11	TCLP Heptachlor Epoxide	<0.02 ug/L	E 8081A
03/07/11	TCLP Methoxychlor	<0.02 ug/L	E 8081A
03/07/11	TCLP Mitotane	<0.02 ug/L	E 8081A
03/07/11	TCLP Toxaphene	<1 ug/L	E 8081A
03/07/11	TCLP 1,1,1-Trichloroethane	<5 ug/L	E 8260B
03/07/11	TCLP 1,1,2,2-Tetrachloroethane	<5 ug/L	E 8260B
03/07/11	TCLP 1,1,2-Trichloroethane	<5 ug/L	E 8260B
03/07/11	TCLP 1,1-Dichloroethane	<5 ug/L	E 8260B

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State: NY **Zip:**
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Sample's Information: **Sample ID:** Zone 2

Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

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Date Analyzed	Test Name	Result	Method
03/07/11	TCLP 1,1-Dichloroethene	<5 ug/L	E 8260B
03/07/11	TCLP 1,1-Dichloropropene	<5 ug/L	E 8260B
03/07/11	TCLP 1,2,3-Trichlorobenzene	<5 ug/L	E 8260B
03/07/11	TCLP 1,2,3-Trichloropropane	<5 ug/L	E 8260B
03/07/11	TCLP 1,2,4,5-Tetramethylbenze	<5 ug/L	E 8260B
03/07/11	TCLP 1,2,4-Trichlorobenzene	<5 ug/L	E 8260B
03/07/11	TCLP 1,2,4-Trimethylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP 1,2-Dibromo-3-chloroprop	<5 ug/L	E 8260B
03/07/11	TCLP 1,2-Dibromoethane	<5 ug/L	E 8260B
03/07/11	TCLP 1,2-Dichlorobenzene	<5 ug/L	E 8260B
03/07/11	TCLP 1,2-Dichloroethane	<5 ug/L	E 8260B
03/07/11	TCLP 1,2-Dichloropropane	<5 ug/L	E 8260B
03/07/11	TCLP 1,3,5-Trimethylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP 1,3-Dichlorobenzene	<5 ug/L	E 8260B
03/07/11	TCLP 1,3-Dichloropropane	<5 ug/L	E 8260B
03/07/11	TCLP 1,3-Dichloropropene	<5 ug/L	E 8260B
03/07/11	TCLP 1,4-Dichlorobenzene	<5 ug/L	E 8260B
03/07/11	TCLP 1,4-Dioxane	<5 ug/L	E 8260B
03/07/11	TCLP 2,2-Dichloropropene	<5 ug/L	E 8260B
03/07/11	TCLP 2-Butanone	<5 ug/L	E 8260B
03/07/11	TCLP 2-Chlorotoluene	<5 ug/L	E 8260B
03/07/11	TCLP 2-Hexanone	<5 ug/L	E 8260B
03/07/11	TCLP 4-Chlorotoluene	<5 ug/L	E 8260B
03/07/11	TCLP Acetone	<5 ug/L	E 8260B
03/07/11	TCLP Acrylonitrile	<5 ug/L	E 8260B
03/07/11	TCLP Benzene	<5 ug/L	E 8260B
03/07/11	TCLP Bromobenzene	<5 ug/L	E 8260B
03/07/11	TCLP Bromochloromethane	<5 ug/L	E 8260B
03/07/11	TCLP Bromodichloromethane	<5 ug/L	E 8260B
03/07/11	TCLP Bromoform	<5 ug/L	E 8260B
03/07/11	TCLP Bromomethane	<5 ug/L	E 8260B

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03/07/11	TCLP Carbon disulfide	<5 ug/L	E 8260B
03/07/11	TCLP Carbon Tetrachloride	<5 ug/L	E 8260B
03/07/11	TCLP Chlorobenzene	<5 ug/L	E 8260B
03/07/11	TCLP Chlorodibromomethane	<5 ug/L	E 8260B
03/07/11	TCLP Chloroethane	<5 ug/L	E 8260B
03/07/11	TCLP Chloroform	<5 ug/L	E 8260B
03/07/11	TCLP Chloromethane	<5 ug/L	E 8260B
03/07/11	TCLP cis-1,2-Dichloroethene	<5 ug/L	E 8260B
03/07/11	TCLP cis-1,3-Dichloropropane	<5 ug/L	E 8260B
03/07/11	TCLP Dibromoethane	<5 ug/L	E 8260B
03/07/11	TCLP Dichlorodifluoromethane	<5 ug/L	E 8260B
03/07/11	TCLP Ethylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP Freon 113	<5 ug/L	E 8260B
03/07/11	TCLP Hexachlorobutadiene	<5 ug/L	E 8260B
03/07/11	TCLP Isopropylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP Methyl isobutyl ketone	<5 ug/L	E 8260B
03/07/11	TCLP Methylene Chloride	<5 ug/L	E 8260B
03/07/11	TCLP MTBE	<5 ug/L	E 8260B
03/07/11	TCLP Naphthalene	<5 ug/L	E 8260B
03/07/11	TCLP n-Butylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP n-Propylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP p-Diethylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP p-Ethyltoluene	<5 ug/L	E 8260B
03/07/11	TCLP p-Isopropyltoluene	<5 ug/L	E 8260B
03/07/11	TCLP sec-Butylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP Styrene	<5 ug/L	E 8260B
03/07/11	TCLP Tert-Butylbenzene	<5 ug/L	E 8260B
03/07/11	TCLP Tetrachloroethene	<5 ug/L	E 8260B
03/07/11	TCLP Toluene	<5 ug/L	E 8260B
03/07/11	TCLP trans-1,2-Dichloroethene	<5 ug/L	E 8260B
03/07/11	TCLP trans-1,3-Dichloropropane	<5 ug/L	E 8260B

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State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 100057
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 2

Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100963

Date Analyzed	Test Name	Result	Method
03/07/11	TCLP Trichloroethene	<5 ug/L	E 8260B
03/07/11	TCLP Trichlorofluoromethane	<5 ug/L	E 8260B
03/07/11	TCLP Vinyl Acetate	<5 ug/L	E 8260B
03/07/11	TCLP Vinyl Chloride	<5 ug/L	E 8260B
03/07/11	TCLP Xylenes, Total	<5 ug/L	E 8260B
03/07/11	TCLP 2,4,5-Trichlorophenol	<10 ug/L	E 8270C
03/07/11	TCLP 2,4,6-Trichlorophenol	<10 ug/L	E 8270C
03/07/11	TCLP 2,4-Dichlorophenol	<10 ug/L	E 8270C
03/07/11	TCLP 2,4-Dimethylphenol	<10 ug/L	E 8270C
03/07/11	TCLP 2,4-Dinitrophenol	<10 ug/L	E 8270C
03/07/11	TCLP 2,4-Dinitrotoluene	<10 ug/L	E 8270C
03/07/11	TCLP 2,6-Dinitrotoluene	<10 ug/L	E 8270C
03/07/11	TCLP 2-Chloronaphthalene	<10 ug/L	E 8270C
03/07/11	TCLP 2-Chlorophenol	<10 ug/L	E 8270C
03/07/11	TCLP 2-Methylnaphthalene	<10 ug/L	E 8270C
03/07/11	TCLP 2-Methylphenol (o-Cresol)	<10 ug/L	E 8270C
03/07/11	TCLP 2-Nitroaniline	<10 ug/L	E 8270C
03/07/11	TCLP 2-Nitrophenol	<10 ug/L	E 8270C
03/07/11	TCLP 3,3'-Dichlorobenzidine	<10 ug/L	E 8270C
03/07/11	TCLP 3-Nitroaniline	<10 ug/L	E 8270C
03/07/11	TCLP 4-Bromophenyl Phenyl Et	<10 ug/L	E 8270C
03/07/11	TCLP 4-Chloro-3-Methylphenol	<10 ug/L	E 8270C
03/07/11	TCLP 4-Chloroaniline	<10 ug/L	E 8270C
03/07/11	TCLP 4-Chlorophenyl Phenyleth	<10 ug/L	E 8270C
03/07/11	TCLP 4-Methylphenol (p-Cresol)	<10 ug/L	E 8270C
03/07/11	TCLP 4-Nitroaniline	<10 ug/L	E 8270C
03/07/11	TCLP 4-Nitrophenol	<10 ug/L	E 8270C
03/07/11	TCLP Acenaphthene	<10 ug/L	E 8270C
03/07/11	TCLP Acenaphthylene	<10 ug/L	E 8270C
03/07/11	TCLP Aniline	<10 ug/L	E 8270C
03/07/11	TCLP Anthracene	<10 ug/L	E 8270C

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

Analytical Report

Impact Environmental: 1917

Mailing Information:
Name: Impact Environmental
Address: 170 Keyland Ct

City: Bohemia
State: NY **Zip:** 11716
Phone: (631) 269-8800 **Fax:** (631) 269-1599

Collector's Information: **JMS ID:** 100057
Name: Wenqing Fang
Address of site: 86th St Station New North Shaft

City: Manhattan
State: NY **Zip:**
Phone:

Sample's Information: **Sample ID:** Zone 2

Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100963

Date Analyzed	Test Name	Result	Method
03/07/11	TCLP Benzo(a)anthracene	<10 ug/L	E 8270C
03/07/11	TCLP Benzo(a)pyrene	<10 ug/L	E 8270C
03/07/11	TCLP Benzo(b)fluoranthene	<10 ug/L	E 8270C
03/07/11	TCLP Benzo(g,h,i)perylene	<10 ug/L	E 8270C
03/07/11	TCLP Benzo(k)fluoranthene	<10 ug/L	E 8270C
03/07/11	TCLP Benzyl Alcohol	<10 ug/L	E 8270C
03/07/11	TCLP Benzyl Butyl Phthalate	<10 ug/L	E 8270C
03/07/11	TCLP bis(2-Chloroethoxy)metha	<10 ug/L	E 8270C
03/07/11	TCLP bis(2-Chloroethyl) ether	<10 ug/L	E 8270C
03/07/11	TCLP bis(2-Chloroisopropyl) eth	<10 ug/L	E 8270C
03/07/11	TCLP bis(2-ethylhexyl)phthalate	<10 ug/L	E 8270C
03/07/11	TCLP Chrysene	<10 ug/L	E 8270C
03/07/11	TCLP Dibenz(a,h)anthracene	<10 ug/L	E 8270C
03/07/11	TCLP Dibenzofuran	<10 ug/L	E 8270C
03/07/11	TCLP Diethyl Phthalate	<10 ug/L	E 8270C
03/07/11	TCLP Dimethyl Phthalate	<10 ug/L	E 8270C
03/07/11	TCLP Di-N-Butylphthalate	<10 ug/L	E 8270C
03/07/11	TCLP Dinitrotoluene(2,4-/2,6-)	<10 ug/L	E 8270C
03/07/11	TCLP Di-n-octyl phthalate	<10 ug/L	E 8270C
03/07/11	TCLP Fluoranthene	<10 ug/L	E 8270C
03/07/11	TCLP Fluorene	<10 ug/L	E 8270C
03/07/11	TCLP Hexachlorobenzene	<10 ug/L	E 8270C
03/07/11	TCLP Hexachlorocyclopentadien	<10 ug/L	E 8270C
03/07/11	TCLP Hexachloroethane	<10 ug/L	E 8270C
03/07/11	TCLP Indeno(1,2,3-cd)pyrene	<10 ug/L	E 8270C
03/07/11	TCLP Isophorone	<10 ug/L	E 8270C
03/07/11	TCLP m-Cresol	<10 ug/L	E 8270C
03/07/11	TCLP Naphthalene	<10 ug/L	E 8270C
03/07/11	TCLP Nitrobenzene	<10 ug/L	E 8270C
03/07/11	TCLP n-Nitrosodiphenylamine	<10 ug/L	E 8270C
03/07/11	TCLP Pentachlorophenol	<10 ug/L	E 8270C

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

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Lab No.: J1100963

Date Analyzed	Test Name	Result	Method
03/07/11	TCLP Phenanthrene	<10 ug/L	E 8270C
03/07/11	TCLP Phenol	<10 ug/L	E 8270C
03/07/11	TCLP Pyrene	<10 ug/L	E 8270C
03/07/11	TCLP Mercury	<0.005 mg/L	E1311/E245.1
03/07/11	TCLP Arsenic	<0.01 mg/L	E1311/SW6010
03/07/11	TCLP Barium	0.237 mg/L	E1311/SW6010
03/07/11	TCLP Cadmium	<0.005 mg/L	E1311/SW6010
03/07/11	TCLP Chromium	0.09 mg/L	E1311/SW6010
03/07/11	TCLP Lead	<0.05 mg/L	E1311/SW6010
03/07/11	TCLP Selenium	<0.05 mg/L	E1311/SW6010
03/07/11	TCLP Silver	<0.01 mg/L	E1311/SW6010
03/04/11	1,2 Diphenylhydrazine	<280 ug/kg dry	EPA 8270C
03/04/11	1,2,4-Trichlorobenzene	<280 ug/kg dry	EPA 8270C
03/04/11	2,4,5-Trichlorophenol	<280 ug/kg dry	EPA 8270C
03/04/11	2,4,6-Trichlorophenol	<280 ug/kg dry	EPA 8270C
03/04/11	2,4-Dichlorophenol	<280 ug/kg dry	EPA 8270C
03/04/11	2,4-Dimethylphenol	<280 ug/kg dry	EPA 8270C
03/04/11	2,4-Dinitrophenol	<280 ug/kg dry	EPA 8270C
03/04/11	2,4-Dinitrotoluene	<280 ug/kg dry	EPA 8270C
03/04/11	2,6-Dinitrotoluene	<280 ug/kg dry	EPA 8270C
03/04/11	2-Chloronaphthalene	<280 ug/kg dry	EPA 8270C
03/04/11	2-Chlorophenol	<280 ug/kg dry	EPA 8270C
03/04/11	2-Methylnaphthalene	<280 ug/kg dry	EPA 8270C
03/04/11	2-Methylphenol (o-Cresol)	<280 ug/kg dry	EPA 8270C
03/04/11	2-Nitroaniline	<280 ug/kg dry	EPA 8270C
03/04/11	2-Nitrophenol	<280 ug/kg dry	EPA 8270C
03/04/11	3+4-methylphenol (m,p-cresol)	<280 ug/kg dry	EPA 8270C
03/04/11	3,3'-Dichlorobenzidine	<280 ug/kg dry	EPA 8270C
03/04/11	3-Methylphenol (m-cresol)	<280 ug/kg dry	EPA 8270C
03/04/11	3-Nitroaniline	<280 ug/kg dry	EPA 8270C

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

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Lab No.: J1100963

Date Analyzed	Test Name	Result	Method
03/04/11	4,6-Dinitro-2-methylphenol	<280 ug/kg dry	EPA 8270C
03/04/11	4-Bromophenyl Phenyl Ether	<280 ug/kg dry	EPA 8270C
03/04/11	4-Chloro-3-Methylphenol	<280 ug/kg dry	EPA 8270C
03/04/11	4-Chloroaniline	<280 ug/kg dry	EPA 8270C
03/04/11	4-Chlorophenylphenyl ether	<280 ug/kg dry	EPA 8270C
03/04/11	4-Methylphenol (p-Cresol)	<280 ug/kg dry	EPA 8270C
03/04/11	4-Nitroaniline	<280 ug/kg dry	EPA 8270C
03/04/11	4-Nitrophenol	<280 ug/kg dry	EPA 8270C
03/04/11	Acenaphthene	<280 ug/kg dry	EPA 8270C
03/04/11	Acenaphthylene	<280 ug/kg dry	EPA 8270C
03/04/11	Acetophenone	<280 ug/kg dry	EPA 8270C
03/04/11	Aniline	<280 ug/kg dry	EPA 8270C
03/04/11	Anthracene	<280 ug/kg dry	EPA 8270C
03/04/11	Atrazine	<280 ug/kg dry	EPA 8270C
03/04/11	Benzo(a)anthracene	<280 ug/kg dry	EPA 8270C
03/04/11	Benzo(a)pyrene	<140 ug/kg dry	EPA 8270C
03/04/11	Benzo(b)fluoranthene	<280 ug/kg dry	EPA 8270C
03/04/11	Benzo(k)fluoranthene	<280 ug/kg dry	EPA 8270C
03/04/11	Benzo(g,h,i)perylene	<280 ug/kg dry	EPA 8270C
03/04/11	Benzoic Acid	<280 ug/kg dry	EPA 8270C
03/04/11	Benzyl Alcohol	<280 ug/kg dry	EPA 8270C
03/04/11	bis(2-Chloroethoxy)methane	<280 ug/kg dry	EPA 8270C
03/04/11	bis(2-Chloroethyl) ether	<280 ug/kg dry	EPA 8270C
03/04/11	bis(2-Chloroisopropyl) ether	<280 ug/kg dry	EPA 8270C
03/04/11	bis(2-ethylhexyl)phthalate	<280 ug/kg dry	EPA 8270C
03/04/11	Benzyl Butyl Phthalate	<280 ug/kg dry	EPA 8270C
03/04/11	Benzaldehyde	<280 ug/kg dry	EPA 8270C
03/04/11	Caprolactam	<280 ug/kg dry	EPA 8270C
03/04/11	Carbazole	<280 ug/kg dry	EPA 8270C
03/04/11	Chrysene	<280 ug/kg dry	EPA 8270C
03/04/11	Dibenzofuran	<280 ug/kg dry	EPA 8270C

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

Analytical Report

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Sample's Information: **Sample ID:** Zone 2

Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100963

Date Analyzed	Test Name	Result	Method
03/04/11	Dibenz(a,h)anthracene	<280 ug/kg dry	EPA 8270C
03/04/11	Diethyl Phthalate	<280 ug/kg dry	EPA 8270C
03/04/11	Dimethyl Phthalate	<280 ug/kg dry	EPA 8270C
03/04/11	Di-n-Butyl phthalate	<280 ug/kg dry	EPA 8270C
03/04/11	Dinitrotoluene(2,4-/2,6-)	<280 ug/kg dry	EPA 8270C
03/04/11	Di-n-octyl phthalate	<280 ug/kg dry	EPA 8270C
03/04/11	Fluoranthene	<280 ug/kg dry	EPA 8270C
03/04/11	Fluorene	<280 ug/kg dry	EPA 8270C
03/04/11	Hexachlorobenzene	<280 ug/kg dry	EPA 8270C
03/04/11	Hexachlorocyclopentadiene	<280 ug/kg dry	EPA 8270C
03/04/11	Naphthalene	<280 ug/kg dry	EPA 8270C
03/04/11	Hexachloroethane	<280 ug/kg dry	EPA 8270C
03/04/11	Indeno(1,2,3-cd)pyrene	<280 ug/kg dry	EPA 8270C
03/04/11	Isophorone	<280 ug/kg dry	EPA 8270C
03/04/11	Nitrobenzene	<280 ug/kg dry	EPA 8270C
03/04/11	n-Nitrosodimethylamine	<280 ug/kg dry	EPA 8270C
03/04/11	n-Nitroso-di-n-Propylamine	<280 ug/kg dry	EPA 8270C
03/04/11	n-Nitroso-di-n-butylamine	<280 ug/kg dry	EPA 8270C
03/04/11	Phenol	<280 ug/kg dry	EPA 8270C
03/04/11	n-Nitrosodiphenylamine	<280 ug/kg dry	EPA 8270C
03/04/11	Pentachlorophenol	<280 ug/kg dry	EPA 8270C
03/04/11	Phenanthrene	<280 ug/kg dry	EPA 8270C
03/04/11	Pyrene	<280 ug/kg dry	EPA 8270C
03/04/11	2,4,5-T acid	<100 ug/kg	EPA 8151
03/04/11	2,4,5-TP acid	<100 ug/kg	EPA 8151
03/04/11	2,4-D acid	<100 ug/kg	EPA 8151
03/04/11	2,4-DB acid	<100 ug/kg	EPA 8151
03/04/11	4,4'-DDD	<2.2 ug/kg dry	EPA 8081A
03/04/11	4,4'-DDE	<2.2 ug/kg dry	EPA 8081A
03/04/11	4,4'-DDT	<2.2 ug/kg dry	EPA 8081A
03/04/11	Aldrin	<2.2 ug/kg dry	EPA 8081A

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

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City: Manhattan
State: NY **Zip:**
Phone:

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Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
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Lab No.: J1100963

Date Analyzed	Test Name	Result	Method
03/04/11	a-BHC	<2.2 ug/kg dry	EPA 8081A
03/04/11	Arochlor 1016	<58 ug/kg dry	EPA 8082
03/04/11	Arochlor 1221	<58 ug/kg dry	EPA 8082
03/04/11	Arochlor 1232	<58 ug/kg dry	EPA 8082
03/04/11	Arochlor 1242	<58 ug/kg dry	EPA 8082
03/04/11	Arochlor 1248	<58 ug/kg dry	EPA 8082
03/04/11	Arochlor 1254	<58 ug/kg dry	EPA 8082
03/04/11	Arochlor 1260	<58 ug/kg dry	EPA 8082
03/04/11	b-BHC	<2.2 ug/kg dry	EPA 8081A
03/04/11	Chlordane	<110 ug/kg dry	EPA 8081A
03/04/11	d-BHC	<2.2 ug/kg dry	EPA 8081A
03/04/11	Endosulfan	<2.2 ug/kg dry	EPA 8081A
03/04/11	Dicamba acid	<100 ug/kg	EPA 8151
03/04/11	Dieldrin	<2.2 ug/kg dry	EPA 8081A
03/04/11	Endosulfan I	<2.2 ug/kg dry	EPA 8081A
03/04/11	Endosulfan II	<2.2 ug/kg dry	EPA 8081A
03/04/11	Endosulfan Sulfate	<2.2 ug/kg dry	EPA 8081A
03/04/11	Endrin	<2.2 ug/kg dry	EPA 8081A
03/04/11	Endrin Aldehyde	<2.2 ug/kg dry	EPA 8081A
03/04/11	Endrin Ketone	<2.2 ug/kg dry	EPA 8081A
03/04/11	Lindane	<2.2 ug/kg dry	EPA 8081A
03/04/11	Heptachlor	<2.2 ug/kg dry	EPA 8081A
03/04/11	Heptachlor epoxide	<2.2 ug/kg dry	EPA 8081A
03/04/11	Methoxychlor	<2.2 ug/kg dry	EPA 8081A
03/04/11	Mitotane	<2.2 ug/kg dry	EPA 8081A
03/04/11	Parathion	<30 ug/kg dry	EPA 8081A
03/04/11	Polychlorinated biphenyls (PCBs	<58 ug/kg dry	EPA 8082
03/04/11	Toxaphene	<110 ug/kg dry	EPA 8081A
03/04/11	Aluminum	27543 mg/kg dry	EPA 6010
03/04/11	Antimony	<5.43 mg/kg dry	EPA 6010
03/04/11	Arsenic	2.89 mg/kg dry	EPA 6010

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

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Sample's Information: **Sample ID:** Zone 2

Site: Comp
Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
Time Collected:

Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100963

Date Analyzed	Test Name	Result	Method
03/04/11	Barium	359 mg/kg dry	EPA 6010
03/04/11	Beryllium	0.598 mg/kg dry	EPA 6010
03/04/11	Cadmium	4.47 mg/kg dry	EPA 6010
03/04/11	Calcium	11299 mg/kg dry	EPA 6010
03/04/11	Chromium	48.7 mg/kg dry	EPA 6010
03/04/11	Chromium Hexavalent	<0.5 mg/kg dry	EPA 7196
03/04/11	Chromium, Trivalent	48.7 mg/kg dry	EPA 6010
03/04/11	Cobalt	40.7 mg/kg dry	EPA 6010
03/04/11	Copper	91.7 mg/kg dry	EPA 6010
03/04/11	Cyanide	<0.2 mg/kg dry	9010/ 335.3
03/04/11	Iron	43176 mg/kg dry	EPA 6010
03/04/11	Lead	9.9 mg/kg dry	EPA 6010
03/04/11	Magnesium	13306 mg/kg dry	EPA 6010
03/04/11	Manganese	1805 mg/kg dry	EPA 6010
03/04/11	Mercury (inorganic salts)	<0.5 mg/kg dry	SW-7471
03/04/11	Mercury	<0.102 mg/kg dry	SW-7471
03/04/11	Nickel	58.3 mg/kg dry	EPA 6010
03/04/11	Potassium	10182 mg/kg dry	EPA 6010
03/04/11	Selenium	<5.43 mg/kg dry	EPA 6010
03/04/11	Silver	<1.09 mg/kg dry	EPA 6010
03/04/11	Sodium	<543 mg/kg dry	EPA 6010
03/04/11	Thallium	<2.72 mg/kg dry	EPA 6010
03/04/11	Vanadium	93.5 mg/kg dry	EPA 6010
03/04/11	Zinc	80.8 mg/kg dry	EPA 6010

% = Percent
ppm = parts per million
ug/L = micrograms per liter
mg/kg dry = milligrams per kilogram- dry
ug/kg = micrograms per kilogram-dry
mg/L = milligrams per Liter
ug/kg dry = micrograms per kilogram

JMS Environmental Services, Inc. WATER, SOIL AND AIR ANALYSIS

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Sample's Information: **Sample ID:** Zone 2

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Preservative: N/A
Temperature:
Matrix: Soil

Date Collected: 2/25/2011
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Date Received: 2/28/2011
Time Received: 8:00:00 AM
Lab No.: J1100963

Signature: Michael Lapman
Michael Lapman
President

Reviewed By: Michael Lapman
Michael Lapman,

State #: PH-0218 **ELAP #: NY 11715** **Ref Lab: 11718,**

CHAIN OF CUSTODY

IMPACT ENVIRONMENTAL
170 Keyland Court, Bohemia, New York 11716
(Tel.) 631-269-8800 (Fax) 631-269-1599

LAB NAME: JMS

RECEIVED DATE:

Client Information

- **Company Name:** Impact Environmental
- **Address:** 170 Keyland Court
- **City:** Bohemia
- **Project Contact:** Shawna Smith and
- **Phone #:** 631-269-8800 **Fax #:** 631-269-1599
- **E-mail:** ssmith@impactenvironmental.com

Project Information

- **Project Name:** 86th St Station New North Shaft
- **Street:**
- **City:** Manhattan **State:** NY **Zip:**
- **Project #:** 1917-03-01-1004
- **Sampler's Name:** WENQING FANG
- **Sampler's Signature:** WQ FB

Sample Information / Collection / Containers / Analytical Information

LAB SAMPLE # (LAB USE ONLY)	Sample ID	IEC Project Code	Matrix Code	Date	Time	Total # of bottles	Containers: Number of Each Preserved Bottle: NONE or OTHER*	ICE	HCL	Methanol (USEPA 5035)	Impact Analytical Package A*	SVOC 8270 (Analyte List for NY Part 375 and NJ NRDCC)	VOC 8260 (Analyte List for NY Part 375 and NJ NRDCC)	Metals 6010 (Analyte List for NY Part 375 and NJ NRDCC)	Pest/PCB 8081 (Analyte List for NY Part 375 and NJ NRDCC)	Herbicides 8150 (Analyte List for NY Part 375 and NJ NRDCC)	Full TCLP	TPH	RCRA Characteristics	(LAB USE ONLY)
JM 0960	Zone-1 (2') grab					1							X							
0961	Zone-2 (6') grab					1							X							
0962	Zone-1 comp. (2', 3', 4', 5')					4					X						X	X	X	4°C
0963	Zone-2 comp. (6', 7', 6', 7')					4					X						X	X	X	

Matrix Codes: L - Liquid; S - Soil; A - Air; OL - Oil; W - Wipe; PC - Paint Chips; SL - Sludge; SD - Solid; DW - Drinking Water; DISS - Dissolved

Sample Type: G=Grab; C=Composite; B=Blank

Turnaround Time (Business Days)

- [ ] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *RUSH*

(LAB USE ONLY) TAT Approved By / Date:

Data Deliverable Information

- [ ] Results Only (Level-1)
- [ ] Results plus Misc. QC (Level-2)
- [ ] Results plus ALL QC (Level-3)
- [ ] PA QC Package
- [ ] NJ QC Package (Level3NJ)
- [ ] CLP Category A (Level-2)
- [ ] CLP Category B (Level-4)
- [ ] ASP QC Package (Level-4)
- [ ] Other
- [x] EDD Format

(EDD Formats: Excel, pdf, EQUIS, GIS, GISKey, SPDES, Ascii, TAGM, OENJ)

REFRENCES

*If other preservative, indicate type in the NOTES/COMMENTS section below.
**Package A (proprietary) - Priority Pollutants Metals, VOCs, SVOCs, PCB/Pest and Herbicides - to match all NJ RDCCC and NY Part 375 Target Analytes.

NOTES/COMMENTS:

*Please composite in the lab.

Sample custody must be documented below each time samples change possession, with a signature, date, and time.

1 Relinquished by Sampler: WQ FB	Date / Time: 2.25.2011	1 Received By:	2 Relinquished By:	Date / Time: 2/28/11 900	2 Received By:
3 Relinquished by:	Date / Time:	3 Received By: 2-25-11 1:55	4 Relinquished By: FEB 25 2011	Date / Time:	4 Received By:
5 Relinquished by:	Date / Time:	5 Received By:	Cooler Temp: 5.0	pH:	COOLER INFORMATION: ☐ On Ice ☐ Sample Receipt Discrepancy(attach information)

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Moretrench American Corporation
51 Smart Ave
Yorkers NY, 10704
Attention: Joe Mahon

Report Date: 03/17/2011
Client Project ID: 2nd Ave 86th St.
York Project (SDG) No.: 11C0354

Report Date: 03/17/2011
Client Project ID: 2nd Ave 86th St.
York Project (SDG) No.: 11C0354

Moretrench American Corporation
51 Smart Ave
Yorkers NY, 10704
Attention: Joe Mahon

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 March 10, 2011 and listed below. The project was identified as your project: **2nd Ave 86th St.**.

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 customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
11C0354-01	Monitoring Well	Water	03/09/2011	03/10/2011

General Notes for York Project (SDG) No.: 11C0354

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the 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, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 03/17/2011

Robert Q. Bradley
Managing Director

YORK

Sample Information

Client Sample ID: **Monitoring Well** **York Sample ID:** **11C0354-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
11C0354	2nd Ave 86th St.	Water	March 9, 2011 3:00 pm	03/10/2011

Volatile Organics, NYCDEP Sewer Discharge List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.95	5.0	1	EPA Method 624	03/15/2011 21:06	03/15/2011 21:06	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.68	5.0	1	EPA Method 624	03/15/2011 21:06	03/15/2011 21:06	SS
71-43-2	Benzene	ND		ug/L	0.48	5.0	1	EPA Method 624	03/15/2011 21:06	03/15/2011 21:06	SS
56-23-5	Carbon tetrachloride	ND		ug/L	1.0	5.0	1	EPA Method 624	03/15/2011 21:06	03/15/2011 21:06	SS
67-66-3	Chloroform	ND		ug/L	0.36	5.0	1	EPA Method 624	03/15/2011 21:06	03/15/2011 21:06	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.35	5.0	1	EPA Method 624	03/15/2011 21:06	03/15/2011 21:06	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.38	5.0	1	EPA Method 624	03/15/2011 21:06	03/15/2011 21:06	SS
95-47-6	o-Xylene	ND		ug/L	0.50	5.0	1	EPA Method 624	03/15/2011 21:06	03/15/2011 21:06	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.55	10	1	EPA Method 624	03/15/2011 21:06	03/15/2011 21:06	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.52	5.0	1	EPA Method 624	03/15/2011 21:06	03/15/2011 21:06	SS
108-88-3	Toluene	ND		ug/L	0.23	5.0	1	EPA Method 624	03/15/2011 21:06	03/15/2011 21:06	SS
1330-20-7	Xylenes, Total	ND		ug/L	1.0	15	1	EPA Method 624	03/15/2011 21:06	03/15/2011 21:06	SS

Semi-Volatiles, NYCDEP Sewer Discharge List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.50	5.71	1	EPA Method 625	03/16/2011 09:47	03/16/2011 22:02	TD
91-20-3	Naphthalene	ND		ug/L	4.41	5.71	1	EPA Method 625	03/16/2011 09:47	03/16/2011 22:02	TD

PCB (Polychlorinated Biphenyls)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0372	0.0513	1	EPA Method 608	03/16/2011 09:58	03/16/2011 16:58	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0372	0.0513	1	EPA Method 608	03/16/2011 09:58	03/16/2011 16:58	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0372	0.0513	1	EPA Method 608	03/16/2011 09:58	03/16/2011 16:58	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0372	0.0513	1	EPA Method 608	03/16/2011 09:58	03/16/2011 16:58	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0372	0.0513	1	EPA Method 608	03/16/2011 09:58	03/16/2011 16:58	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0433	0.0513	1	EPA Method 608	03/16/2011 09:58	03/16/2011 16:58	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0433	0.0513	1	EPA Method 608	03/16/2011 09:58	03/16/2011 16:58	JW
37324-23-5	Aroclor 1262	ND		ug/L	0.0433	0.0513	1	EPA Method 608	03/16/2011 09:58	03/16/2011 16:58	JW
11100-14-4	Aroclor 1268	ND		ug/L	0.0433	0.0513	1	EPA Method 608	03/16/2011 09:58	03/16/2011 16:58	JW
1336-36-3	Total PCBs	ND		ug/L	0.372	0.513	1	EPA Method 608	03/16/2011 09:58	03/16/2011 16:58	JW

Sample Information

Client Sample ID: Monitoring Well **York Sample ID:** 11C0354-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
11C0354	2nd Ave 86th St.	Water	March 9, 2011 3:00 pm	03/10/2011

Cadmium by EPA 200.7

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		mg/L	0.00100	0.00300	1	EPA 200.7	03/14/2011 10:16	03/14/2011 11:52	MW

Copper by EPA 200.7

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**0.0213**		mg/L	0.00160	0.00500	1	EPA 200.7	03/14/2011 10:16	03/14/2011 11:52	MW

Lead by EPA 200.7

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00120	0.00300	1	EPA 200.7	03/14/2011 10:16	03/14/2011 11:52	MW

Nickel by EPA 200.7

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**0.0139**		mg/L	0.000800	0.00500	1	EPA 200.7	03/14/2011 10:16	03/14/2011 11:52	MW

Zinc by EPA 200.7

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA SW 846-3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	**Zinc**	**0.0870**		mg/L	0.000900	0.0200	1	EPA 200.7	03/14/2011 10:16	03/14/2011 11:52	MW

Mercury by EPA 245.1

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 245.1 Mercury

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0000390	0.0002000	1	EPA 245.1	03/14/2011 15:05	03/14/2011 15:05	AA

Flashpoint

Log-in Notes: Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Flashpoint	> 200		°F		68.0	1	ASTM D93 Modified	03/14/2011 12:56	03/14/2011 12:56	MZ

Total Solids (Aq)

Log-in Notes: Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Solids	**2370**		mg/L	0.500	0.500	1	SM 2540B	03/16/2011 14:13	03/16/2011 14:13	CC

Chloride

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**425**		mg/L	0.0690	0.500	1	EPA Method 300.0	03/15/2011 12:01	03/15/2011 12:01	AD

Sample Information

Client Sample ID: **Monitoring Well** **York Sample ID:** **11C0354-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
11C0354	2nd Ave 86th St.	Water	March 9, 2011 3:00 pm	03/10/2011

Total Nitrogen (TN)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Prep for SAA

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Nitrogen	**5.23**		mg/L	0.00900	0.0500	1	SM-4500-N-B	03/14/2011 08:37	03/14/2011 17:05	AS

Carbonaceous BOD 5-Day

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Carbonaceous BOD (5-Day)	**98**		mg/L	1.0	1.0	1	SM 5210 B	03/11/2011 09:49	03/16/2011 13:03	SC

Hexavalent Chromium

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.00600	0.0100	1	SM3500-Cr-D	03/10/2011 15:00	03/10/2011 15:00	AD

Non-Polar Material

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Non-Polar Material	**1.56**		mg/L	0.500	0.500	1	EPA 1664A	03/15/2011 14:39	03/15/2011 14:39	SC

pH

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	**7.46**	HT-pH	pH units		0.500	1	EPA SW846-9045D	03/10/2011 16:47	03/10/2011 16:47	MZ

Phenols, total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
64743-03-9	Phenols, total	ND		mg/L		0.0500	1	EPA 420.1/2	03/16/2011 14:13	03/16/2011 14:13	AD

Total Suspended Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Suspended Solids	**512**		mg/L	1.00	1.00	1	SM 2540D	03/15/2011 14:46	03/15/2011 14:46	CC

YORK
ANALYTICAL LABORATORIES, INC.

Notes and Definitions

HT-pH	HOLDING TIME EXCEEDED. Samples for pH must be measured in the field or within 15 minutes of sample collection.
F-01	> 200

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

Corrective Action:

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page ____ of ____

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
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.

York Project No. 11C0354

YOUR Information	**Report To:**	**Invoice To:**
Company: Morehouse	Company: Same	Company: Same
Address: 51 Smart Ave Yonkers, NY 10704	Address:	Address:
Phone No. 914 422 1331	Phone No.	Phone No.
Contact Person: Joe Mahon	Attention:	Attention:
E-Mail Address: JMahon@	E-Mail Address:	E-Mail Address:

YOUR Project ID
2nd Ave
86th St

Purchase Order No.

Samples from: CT ✓ NY ___ NJ ___

Turn-Around Time
- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) ✓

Report Type/Deliverbles
- Summary Report ____
- Summary w/ QA Summary ____
- CT RCP Package ____
- NY ASP A Package ____
- NY ASP B Package ____

Electronic Deliverables:
- EDD (Specify Type) ____
- Excel ____

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Ron Smalley
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - ~~wastewater~~
GW - groundwater
DW - ~~drinking water~~
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Baseline Full List	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
Monitoring Well	3/9/11	GW	NYCDEP	(2) 40ml HCl (1) HNO_3 250ml (2) Amber Unpres 1 Liter (1) H_2SO_4 Amber Liter (1) H_2SO_4 250ml Amber (1) Plastic Unp 1L

Page 7 of 7

Comments

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By — Date/Time: 3/10/11

Samples Relinquished By — Date/Time:

Samples Received By — Date/Time: 3-10-11 9:30

Samples Received in LAB by — Date/Time: 3/10/11 1450

Temperature on Receipt 4.2 °C