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Remedial Investigation
of the
East 138th Street Works Site
Site #V00551
Bronx, New York

Prepared for:

Consolidated Edison Company of New York, Inc.

31-01 20th Avenue - Bldg. 136
Astoria, New York 11105

Prepared by:

URS Corporation

257 West Genesee Street, Suite 400
Buffalo, New York 14202

March 2016

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MARCH 2016

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LIST OF ACRONYMS AND ABBREVIATIONS

ADT	Aquifer Drilling and Testing, Inc.
aka	also known as
amsl	above mean sea level
ASP	Analytical Services Protocol
ASTs	above ground storage tanks
BCP	Brownfield Cleanup Program
bgs	below ground surface
Blvd.	Boulevard
BTEX	benzene, toluene, ethylbenzene, xylenes
CC	coal carbonization
CD	compact disc
cf	cubic feet
cm/sec	centimeters per second
CN	cyanide
CO	Certificate of Occupancy
COC	chain-of-custody
Con Edison	Consolidated Edison Company of New York, Inc.
CPCs	contaminants of potential concern
CVOCs	chlorinate volatile organic compounds
CWG	carbureted water gas
cy	cubic yards
DEP	Department of Environmental Protection
DNAPL	dense non-aqueous phase liquid
DOT	Department of Transportation
DUSR	Data Usability Summary Report
EE	Environmental Easement
Eh	Oxidation/Reduction Potential
ELAP	Environmental Laboratory Approval Program
EM	electromagnetic
Environ	Environ International Corporation
ESA	Environmental Site Assessment
FWRIA	Fish and Wildlife Resources Impact Analysis
GC/FID	gas chromatograph/flame ionization detector
GC/MS	gas chromatograph/mass spectrometer
GEI	GEI Consultants, Inc.
GPR	ground penetrating radar
HASP	Health and Safety Plan
HDPE	high-density polyethylene
HHEA	Human Health Exposure Assessment
HSA	hollow stem auger
ID	inside diameter
IDW	investigation derived wastes
Inc.	Incorporated
K	hydraulic conductivity
L	liter

LIST OF ACRONYMS AND ABBREVIATIONS

(Continued)

LLC	Limited Liability Corporation
LNAPL	light non-aqueous phase liquid
MAHs	monocyclic aromatic hydrocarbons
mg/kg	milligrams per kilogram (parts per million)
META	Meta Environmental, Inc.
MGP	manufactured gas plant
MIP	membrane interface probe
mL	milliliter
MW	monitoring well
MOSF	Major Oil Storage Facility
MTBE	Methyl tert-butyl ether
NAEVA	NAEVA Geophysics Inc.
NAPL	non-aqueous phase liquid
NAVD	North American Vertical Datum
NTU	nephelometric turbidity units
NWI	National Wetland Inventory
NYC	New York City
NYCDEP	New York City Department of Environmental Protection
NYCDOT	New York City Department of Transportation
NYCRR	New York Codes, Rules and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
OD	outside diameter
OSHA	Occupational Safety and Health Administration
PAHs	polycyclic aromatic hydrocarbons
PCB	polychlorinated biphenyl
PEL	permissible exposure level
PCE	perchloroethene, aka tetrachloroethene or tetrachloroethylene or perchloroethylene
PID	photoionization detector
ppbv	parts per billion by volume
PPE	personal protective equipment
ppm	parts per million
PSC	Public Service Commission
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
QAPP	Quality Assurance Project Plan
RECs	recognized environmental conditions
RI	Remedial Investigation
Roux	Roux Associates, Inc.
RQD	rock quality designation

LIST OF ACRONYMS AND ABBREVIATIONS

(Continued)

SAP	Sampling and Analysis Plan
SC	Site Characterization
SCGs	standards, criteria and guidance
sf	square feet
SVI	Soil Vapor Intrusion
SVOCs	semi-volatile organic compounds
TAL	target analyte list
TCE	trichloroethene, aka trichloroethylene
TCL	target compound list
TDS	total dissolved solids
TIC	tentatively identified compound
TOGS	Technical and Operational Guidance Series
TPH	Total Petroleum Hydrocarbons
µg/kg	micrograms per kilogram (parts per billion)
µg/L	micrograms per liter (parts per billion)
µg/m ³	micrograms per cubic meter
URS	URS Corporation – New York
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
UST	underground storage tank
VC	vinyl chloride
VCA	Voluntary Cleanup Agreement
VOCs	volatile organic compounds
Zebra	Zebra Environmental Inc.

1.0 INTRODUCTION

On behalf of Consolidated Edison Company of New York, Inc. (Con Edison), URS Corporation - New York (URS) presents to the New York State Department of Environmental Conservation (NYSDEC) this Remedial Investigation (RI) Report for the East 138th Street Works Former Manufactured Gas Plant MGP (MGP) Site, herein referred to as “former MGP site” (NYSDEC Site #V00551) located in the Bronx, Bronx County, New York (Figure 1-1). This report presents the results of the Site Characterization (SC) and RI field investigation activities that were conducted from March 2010 through August 2015 on and around properties that were previously occupied by the former MGP site. The project began as a SC investigation and evolved into separate projects: the East 138th Street Works SC Investigation and 295 Locust Avenue RI (Block 2598/Lot46).

The 295 Locust Avenue RI became a priority in 2011 when there was a property ownership transfer and was subsequently managed under the Brownfield Cleanup Program (BCP Site #203053-05-12). The property at 295 Locust Avenue was investigated as a separate RI in 2011 and a RI report was finalized and submitted to NYSDEC in April 2012. An Environmental Easement (EE) for the 295 Locust Avenue site was filed and authorized by NYSDEC on February 22, 2014. The 295 Locust Avenue RI report and EE are included as Appendix A of this submittal on Compact Disk (CD). The NYSDEC recently requested that the East 138th Street Works SC be completed as a RI and finalized based upon the data and information gathered to date.

All SC and RI fieldwork at the former MGP site was conducted pursuant to Voluntary Cleanup Agreement Index #D2-0003-0208 (VCA) between the NYSDEC and Con Edison. With the exception of data obtained from the 295 Locust Avenue RI, data gathered as part of the former MGP site SC/RI are discussed and presented in detail herein. Investigation activities at the properties associated with the former MGP site were performed over a period of several years due to property access issues dating back to 2009. Except as otherwise noted in this report, SC and RI field investigation activities were conducted in conformance with the Site Characterization Investigation Work Plan (URS, March 2008) that was approved by the NYSDEC for the former MGP site.

1.1 Purpose of Report

The purpose of the RI is to evaluate the extent of the contaminants associated with past operations at the former MGP site and impacts from adjacent properties. The information will be used to facilitate the development of appropriate remedial action(s) for the site, if necessary. The specific objectives of the RI are to:

- Determine the subsurface characteristics of the site area, including its geology and hydrogeology;
- Identify the potential sources of contamination at the former MGP site, the migration pathways, and actual or potential receptors of contaminants present in the soil and groundwater;
- To the extent possible, delineate the areal and vertical extent of the soil and groundwater impacts utilizing appropriate standards, criteria and guidance;
- Collect and evaluate data necessary for a Qualitative Human Health Exposure Assessment (HHEA) and a Fish and Wildlife Resources Impact Analysis (FWIA) for the former MGP site; and
- Provide information to support a Feasibility Study, if necessary, that will develop and evaluate potential remedial alternatives for the remediation of any soil and groundwater contamination at the former MGP site that poses unacceptable risks to human health and/or the environment.

1.2 Site Location and Description

The former MGP site is located in an industrial area of the Port Morris section of the Bronx, New York (Figure 1-1). Figure 1-2 illustrates the buildings that presently occupy the properties and the approximate locations of the former MGP structures that were located on the respective parcels. For the purpose of the RI, the areas for which RI field activities were conducted included the sidewalk areas around the various parcels up to the nearest adjacent curb lines along Rose Feiss Boulevard, East 138th Street, East 139th Street, East 140th Street, and Locust Avenue, as well as interior portions of

Block 2591, Lot 46; portions of Block 2597, Lot 1; and portions of Block 2598, Lot 1. The former MGP site is situated on approximately 12 acres and occupied several current-day city blocks between East 138th Street and East 141st Streets, east of the New York, New Haven and Hartford Railroad tracks, and west of the East River in the Port Morris neighborhood (Figures 1-1, 1-2, and Plate 1). The shoreline of the East River downgradient of the former MGP site consists of a steel sheeting bulkhead. Figure 1-2 and Plate 1 illustrate the former MGP structures and current site features. The former MGP was used to manufacture gas from coal and/or oil. The former MGP site consists of eight parcels of land now occupied by commercial/industrial businesses, a bulk fuel terminal, and parking lots. The site area is generally flat lying, at an average elevation of approximately 10 feet above mean sea level (amsl), but slopes gently towards the East River. The site is zoned M3-1, a manufacturing district, designed to accommodate heavy industrial uses. No new residences or community facilities are permitted. Potable water in the Bronx is supplied by the New York City water system and there are no water supply wells reported within one mile of the site. There are a number of businesses and industrial facilities that currently occupy the former MGP site area which are identified in the *Manufactured Gas Plant History Report* (GEI, 2003). The following sections describe the site operational and ownership history.

1.3 Site History

A summary of the site history is provided below. In brief, the former MGP site was constructed between 1869 and 1879 and operated by Con Edison or its predecessor companies from 1869 to 1968. The summary information below was obtained from the *Manufactured Gas Plant History Report* (GEI, 2003).

Central Gas Lighting Company (formerly Westchester County Gas Lighting Company prior to 1875) initially constructed the East 138th Street Works between 1869 and 1879 on Block 2598, Lot 1. The former plant expanded operations into Block 2597, Lot 1 by the 1880s. In 1897, Central Gas Lighting Company changed its name to Central Union Gas Company, and was a subsidiary to Con Edison by 1910 and merged into Con Edison in 1936. From plant start up through 1891, plant operations generated gas using the coal gas process. In 1892, the plant expanded to include the carbureted water gas processes. Four below-grade gas holders were constructed with capacities

between 75,000 and 2,630,000 cubic feet (cf). Manufactured gas was produced at the plant until 1932 when it was decommissioned in 1934/1935, when almost all of the MGP structures were removed. The former MGP site had a daily capacity of 8,000,000 cf.

1.3.1 Site Ownership

Tables 1 and 2 in the *East 138th Street Works Site Manufactured Gas Plant History Report* (GEI, 2003, included as Appendix B) list the ownership history for each parcel occupied by the former MGP site through 2003. Some information regarding the historical operations conducted on Block 2598, Lot 46 (former Murray Feiss Building) are derived from the Phase II ESA that was prepared by Roux Associates, Inc. (Roux, June 2009) for Locust East 140th Street L.P., a former owner of the Block 2598, Lot 46, and the *East 138th Street Works Site Manufactured Gas Plant History Report* for the other parcels (GEI, 2003). Based upon the above-referenced reports and the current-day information derived from the New York City Open Accessible Space Information System (NYC OASIS) and Digital Tax Map, the 2016 owners of record for the various parcels are designated on the Tax Map of the City of New York for the Borough and County of the Bronx as:

- Block 2590, Lot 51 – Walcott Shoe, LLC
- Block 2591, Lot 46 – Empire 850 LLC/Paper Enterprises, Inc.
- Block 2592, Lot 35 – LEGEIS Realty LLC/Colonial Steel Corporation
- Block 2597, Lot 1 – Sprague Operating Resources, LLC
- Block 2598, Lot 1 – 885 East 138th Street/Carnegie Hotel Cleaners, Ltd
- Block 2598, Lot 46 – BPA North LLC/295 Locust Associates
- Block 2598, Lot 62, -Walnut Realty Associates/ANDA Realty, LLC, and
- Block 2598, Lot 66 – ANDA Realty, LLC

1.3.2 Past Site Operations

The summary of past site operations was included in the *Manufactured Gas Plant History Report* (GEI, 2003). Excerpts of the site operational history as prepared by GEI are presented below.

Early History

The former MGP site is located in the Port Morris section of the Bronx. In the mid-19th century, Port Morris was part of the Town of Morrisania, which was part of Westchester County. In March 1859, the first gas franchise (right to produce and distribute gas) was granted to Robert Campbell and Company by the Town of Morrisania and the Town of West Farms. In September 1869, Campbell assigned his gas franchise to the Westchester Gas Lighting Company. Bronx Building Department records indicate that the central portion of Block 2597, Lot 1 was transferred to the Westchester County Gas Lighting Company at that time (September 1869). In 1874, New York City annexed the land west of the Bronx River, which included Morrisania. Westchester County Gas Lighting Company changed its name to Central Gas Lighting Company in April 1875. In 1897, the name was changed to Central Union Gas Company. By 1910, the Central Union Gas Company was a Consolidated Gas Company of New York subsidiary. In 1936, the Central Union Gas Company was merged with and into Con Edison.

Plant Configuration

Figure 1-2 and Plate 1 depict the former MGP site layout and Table 1-1 summarizes the former MGP features at each of the properties. Records reviewed do not indicate when the gas plant was built at East 138th Street. An 1868 Atlas map of the site area shows no MGP structures present on the site. The oldest map depicting the MGP was an 1879 Atlas map that depicts the MGP on Block 2598, Lot 1. Two gas holders and buildings are depicted on the 1879 map. The plant was constructed sometime between 1869 and 1879. Bronx Building Department records indicate that in 1887 Central Gas Lighting Company constructed a building for gas manufacturing on Block 2597, Lot 1 and constructed a purifying house and drying shed on Block 2598, Lot 1. *Brown's Directory* indicates that the early gas plant used a coal gas process on the site.

An 1891 Sanborn Map and an 1893 Atlas map depict the MGP operating on two lots, between Walnut Avenue and the East River and between East 138th and East 139th Streets. A retort house, generating house, coal pockets, coal sheds, and coal yard are shown on Block 2597, Lot 1. A railroad spur is shown through the coal yard. A purifying house,

water gas plant and condenser, meter house, machine shop, and three gas holders are shown on Block 2598, Lot 1. 1897 photographs from *The Great North Side, Borough of the Bronx*, show two gasholders and MGP buildings located at the MGP. Central Union's annual reports indicate that a 576,000 cubic foot (cf) holder was constructed in 1885 at Block 2598, Lot 1, had 3 lifts, was constructed of steel, had a brick pit, and concrete foundation. Bronx Building Department records indicate a 75,000 cf holder with a brick pit was constructed prior to 1888. Central Union's annual reports and Bronx Building Department records indicate a 300,000 cf holder was constructed in 1890, had 3 lifts, was constructed of steel, and had a 22-foot deep brick wall foundation (pit) and concrete foundation. The reports indicate that the 300,000 cf holder was a relief holder.

Review of *Brown's Directory*, Bronx Building Department records, and Sanborn Maps indicate that significant plant expansion took place from the late 1880s to the early 1900s. *Brown's Directory* indicates that the plant added the Lowe carbureted water gas process in 1892, and operated both coal and water gas processes at the plant. A 1907 Public Service Commission (PSC) report indicates that the coal gas plant had a daily capacity of 500,000 cf and the water gas plant had a daily capacity of 8,000,000 cf. The report indicated that the water gas was mixed with the coal gas just before entering the holders.

The 1908 Sanborn Map show Central Union Gas Company as owning and occupying all or a portion of nine of the eleven parcels. A fourth gas holder with a capacity of 2,630,000 cf is shown on the northern portion of Block 2598, Lot 46. Central Union's annual reports indicate this holder was constructed in 1896, had 4 lifts, was constructed of steel, had a brick pit, and concrete foundation. A water gas purifying house and a scrubber house are also shown on Block 2598, Lot 46 on the 1908 Sanborn Map. The 1908 Sanborn indicates that the 75,000 cf holder on Block 2598, Lot 1 was not in use. Many additional MGP structures are depicted on Block 2598, Lot 46 on the 1908 map.

A Con Edison insurance map indicated that Block 2592, Lot 35 was used for coal and scrap iron storage, and material storage sheds/buildings were located on this lot. This insurance map indicates that the northern portion of Block 2592, Lot 62 and the western half of Block 2592, Lot 66 were occupied by a few small sheds and a tennis court.

Central Union's 1922 annual report to the PSC indicates the MGP had five water-gas sets that used the Lowe process, and had 20 benches (furnaces) of coal gas works constructed between 1888 and 1919. The MGP had a daily capacity of 8,000,000 cf.

Central Union's 1923 annual report to the PSC was similar to the 1922 report, with some additional auxiliary apparatus installed during 1923. The report indicated that two steel cyanide sludge tanks, 600 and 800 gallons in capacity, were installed at the MGP during 1923. A 1924 aerial photograph confirms the features shown on the Sanborn maps.

The 1930 report to the PSC identified the size of six tar tanks and two gas oil storage tanks at the East 138th Street Works site. The tar tanks were 20,000, 48,000, 48,000, 40,000, 50,000, and 185,000 gallons in size, for a total capacity of 391,000 gallons. The two gas oil tanks (i.e., feedstock oil for the water gas process) had a capacity of 250,000 and 300,000 gallons.

A 1931 report to the PSC indicates that the East 138th Street Works continued to produce gas using both the coal gas and water gas processes. Various reports to the PSC indicate that iron oxide and shavings were used in the purifying process and residual products included coal gas tar, water gas tar, ammoniacal liquor, coke, and drip oil.

According to 1931, 1932, and 1933 reports to the PSC, the MGP stopped producing gas in 1932 and operated as a stand-by plant in 1933. According to Bronx Building Department records, the MGP was decommissioned in 1934/1935. Central Union Gas Company was merged into Con Edison in December of 1936 and the companion East 137th Street Holder Station which was situated on East 137th Street, continued operations subsequent to the shutdown of the MGP.

No MGP operations at the East 138th Street Works are shown on the 1935 Sanborn Maps and almost all MGP structures have been removed from the site. Bronx Building Department records indicate that Central Union demolished all buildings on Block 2597, Lot 1 and Block 2590, Lot 51 in 1934. One building, labeled store house and office, is shown on Block 2591, Lot 46 on the 1935 map.

Post MGP Land Use

The following has been compiled from a review of Sanborn Maps, Bronx Building Department records, city directories, and chain-of-title searches. Records reviewed did not indicate whether buildings constructed after the MGP operated had basements and if subsurface materials were removed during post-MGP site development. A summary for each parcel is provided below.

Block 2590, Lot 51

Bronx Building Department records indicate that Central Union Gas Company demolished all buildings on this lot circa 1934. No structures are shown on the 1935 and 1946 Sanborn Maps. It is unknown what this lot was used for from 1934 to 1946. Con Edison sold this lot in 1946, and according to Bronx Building Department records, a large factory building was constructed on the lot circa 1946. Bronx Building Department records and the 1951 Sanborn Map indicate the building was occupied by The Atlas Baby Carriage Company (Atlas) and a soap manufacturer, and that a 3,000-gallon underground storage tank (UST) was installed in 1947 (the location and contents of the tank is unknown). The building is visible on the 1954 aerial photograph. Bronx Building Department records indicate that in 1960, the building was still occupied by Atlas and also leased to Empire State Dry Cleaners and Launderers. The Bronx Building Department issued a certificate of occupancy (CO) in 1961 for building alterations for the manufacture of baby carriages, a steam laundry, dry cleaning establishment, clothes storage, and office space. The 1968 through 1989 Sanborn Maps do not indicate the building use/occupant, and there were no listings for the lot in the EDR city directory report. The 1996 Sanborn Map indicates an automobile auction company as a building occupant. Automobile service businesses currently occupy the building. The 2016 owner of record is listed as Walcott Shoe LLC (NYC OASIS).

Block 2591, Lot 46

The store house and office (former garage) building was demolished circa 1936. Con Edison sold this lot in 1937 to the Harlem Metal Corporation and it appears that the lot was operated as a scrap metal yard from 1937 to 1959. The 1946 and 1951 Sanborn Maps show

the scrap metal yard with a few small buildings (labeled office, storage, and steel cutting) on the lot. The yard is visible on the 1954 photograph. The lot was sold in 1959 to the Jacklee Corporation, and a large commercial building was constructed in 1960. The building is visible on a 1966 aerial photograph. Bronx Building Department records and the 1968 through 1984 Sanborn Maps indicate Empire Liquor Corporation (warehouse and office) occupied the building from 1960 to the mid- 1980s. The 1989 and 1996 Sanborn Maps show the building occupied by Paper Enterprises, Inc. A 1993 city directory listed Best Marketing Reps and Paper Corporation (party supplies) as the building occupant. A 2000 city directory listed Consolidated Paper Company, Paper Enterprises, and Peter Pak as building occupants. The 2016 owner of record is listed as Empire 850 LLC/Paper Enterprises, Inc. (NYC OASIS).

Block 2592, Lot 35

The storage buildings/sheds were removed from this lot circa 1934; no structures are shown on the 1935 and 1946 Sanborn Maps. Con Edison sold this lot to Walnut Avenue Realty Corporation in 1945. It is unknown what this lot was used for from 1935 to circa 1950. The 1951 Sanborn Map and 1954 aerial photograph show a commercial building occupied by Colonial Steel Corporation on the western portion of the lot. A gasoline UST is shown on the interior, southern side of the building. The building was added on to between 1954 and 1966, as the building in the 1966 aerial photograph covers the whole lot. The 1968 through 1996 Sanborn Maps show the building occupied by Colonial Steel. Colonial Steel continues to occupy the building. The 2016 owner of record is listed as LEGEIS Realty LLC/Colonial Steel Corporation (NYC OASIS).

Block 2597, Lot 1

Bronx Building Department records indicate that Central Union demolished all the buildings and structures on this lot circa 1934; no structures are shown on the 1935 and 1946 Sanborn Maps. Bronx Building Department records indicate that in 1937 Con Edison leased this lot (including an office and locker building) to Schiavone-Bonomo Corporation who used it as a junkyard. It is unknown how long this lot was used for a junkyard, or

if there were other uses from 1934 to the late 1940s. Con Edison sold this lot in 1946 to the Petroleum Terminal Corporation. A bulk fuel oil terminal was constructed on this lot in the late 1940s. Large fuel oil tanks and small ancillary buildings were constructed on the southern two-thirds of this lot in the late 1940s. These mounded tanks are shown on the 1951 Sanborn Map and the 1954 aerial photograph. Fuel loading racks were constructed on the northern one-third of this lot sometime between 1954 and 1966. This lot continues to be operated as a bulk fuel oil terminal. The 2016 owner of record is listed as Sprague Operating Resources, LLC. (NYC OASIS).

Block 2598, Lot 1

Central Union Gas Company demolished/removed all structures on this lot circa 1934; no structures are shown on the 1935 and 1946 Sanborn Maps. It is unknown what this lot was used for from 1934 to 1950. Con Edison sold this lot in 1946. In 1947, the AS Beck Shoe Company, Inc. acquired the lot, and according to Bronx Building Department records, constructed a large commercial building on the lot in 1950. Two 5,000-gallon USTs were also installed when the building was constructed. The location of the two tanks is unknown. The 1951 and 1968 Sanborn Maps indicate the building was occupied by A.S. Beck and labeled "shoe warehouse". Bronx Building Department records indicate a CO was issued in 1977 for building alterations, and that the building would be used for a factory, woodworking shop, warehouse, shipping and receiving, parts assembly, and offices. Bronx Building Department records indicate that the two USTs were still located on the site in 1978. The 1978 through 1996 Sanborn Maps indicate the building as a warehouse. Murray Feiss Industries (light fixture manufacturers) occupied the building for a period of time, although it is unknown when they occupied it. A 2000 city directory lists Modem Tech Cleaners as a building occupant that year. A commercial cleaning business was observed to occupy the building during GEI's walkover (GEI, 2003). The 2016 owner of record is listed as 885 east 138th Street/Carnegie Hotel Cleaners, Ltd. (NYC OASIS).

Block 2598, Lot 46

Central Union Gas Company demolished/removed all MGP structures on the northern portion of this lot circa 1934, and Con Edison sold this lot in 1946. No structures or uses are shown on the 1935, 1946, and 1951 Sanborn Maps. No structures are shown on the 1954 aerial photograph. It is unknown what the northern portion of this lot was used for from 1934 to the mid- 1960s. Parked vehicles and a dispenser island canopy are visible on the northern portion of the lot on the 1966 aerial photograph. Aerial photographs and the 1968 through 1996 Sanborn Maps indicate that a filling station and parking area for vehicles and trucks were located on the northern portion of this lot. A building was constructed on the southern portion of this lot (not formerly owned/occupied by the MGP) between 1908 and 1935. 1935 through 1968 Sanborn Maps and city directories indicate this building was occupied by various businesses (building supplies, a private garage and repair business, a metal warehouse, woodworking, millwork, and motor freight business) until the early 1970s. The 1978 through 1996 Sanborn Maps and city directories indicate that Hertz Corporation Truck Rental occupied the building from the early 1970s to the late 1990s. This building was demolished in the late 1990s. A large industrial building was constructed circa 2000 on the entire lot, which was occupied by Murray Feiss Industries, and was recently sold. The 2016 owner of record is listed as BPA North LLC/295 Locust Associates (NYC OASIS).

Block 2598, Lot 62

No structures are shown on the 1935 and 1946 Sanborn Map. It is unknown what this lot was used for from circa 1934 to 1950. Con Edison sold this lot in 1945. A small building labeled office is shown on the center of the lot on the 1951 Sanborn Map. According to a 1954 aerial photograph and the 1968 Sanborn Map, a garage building was constructed in 1954 on the entire lot. City directories indicate this building was occupied by a garage business in the 1960s. Service System Corporation was listed as occupying the building in 1976. Directories and deed information indicates that Steiner Egg Noodle Co./Steiner Foods occupied the building from 1973 to the 1993. It is unknown what this building was used for from the 1993 to 2001. A machine shop and welding shop currently occupy the

building. The 2016 owner of record is listed as Walnut Realty Associates/ANDA Realty LLC (NYC OASIS).

Block 2598, Lot 66

No structures are shown on the 1935 Sanborn Map. It is unknown what this lot was used for from circa 1934 to 1946. A storage building occupied by Griffin Wellpoint Corporation is shown on the lot on the 1946 and 1951 Sanborn Maps. Records reviewed do not indicate what the building was used for from the early 1950s to 2001. A Carting and Demolition Company currently occupy the building. The 2016 owner of record is listed as ANDA Realty, LLC (NYC OASIS).

1.4 Previous Investigations

Previous investigations were conducted at three parcels that were part of the former MGP including Block 2591, Lot 46; Block 2597, Lot 1; and Block 2598, Lot 46. In addition, a subsurface investigation was conducted by The RETEC Group, Inc. in 2007 to support the 36-inch gas main installation along the southern portion of East 138th Street for Con Edison. These investigations are summarized below.

Previous Investigation Results – Block 2591, Lot 46

- No. 4 Fuel Oil Investigation by MC Environmental, LLC, 2010

Ten soil borings were advanced around the perimeter of a 10,000 gallon No. 2 oil UST situated in the interior of the building footprint approximately mid-block along Murray Feiss Blvd. (i.e., approximately 15 feet west of the eastern wall). Borings were advanced to depths between 2 and 16 feet below ground surface (bgs) of the warehouse floor. MC Environmental reported that contaminants associated with a fuel oil spill were found at or below the water table (i.e., approximately 10.5 feet bgs). MC Environmental also reported tar odors and tar present in three of the borings. Excerpts of the MC Environmental, LLC report are included in Appendix B.

Previous Investigation Results – Block 2597, Lot 1

- Subsurface Exploration Borings and Monitoring Wells

Several borings were advanced and monitoring wells installed to assess soil and groundwater conditions at the terminal. Available boring logs and groundwater monitoring well sampling data are included in Appendix B. Results indicate a mixture of fill materials, silts, sands, and gravels, with low concentrations of polycyclic aromatic hydrocarbons (PAHs) detected in MW6 situated on East 139th Street, approximately 100 feet east of Locust Avenue. Excerpts of the information are included in Appendix B.

Previous Investigation Results – Block 2598, Lot 46

- Remedial Investigation of the 295 Locust Avenue (Block 2598/Lot46) Portion of the East 138th Street Works Former MGP Site prepared for Con Edison, by URS Corporation – New York, April 2012.
- Phase I Environmental Site Assessment: 295 Locust Avenue (Former Distribution Center) and 901-903 East 140th Street (Former Parking Lot) Bronx, New York prepared for Locust East 140th L.P., by Roux Associates, Inc., May, 2009.
- Indoor Air Sampling Summary Letter Report – Murray Feiss Import Corp., Bronx, NY, prepared by Environ International Corp., April, 2004.
- Environmental Review of Murray Feiss Import Corp., Bronx, NY, prepared by Environ International Corp., March, 2004.
- Manufactured Gas Plant History: East 138th Street Works and East 137th Street Station, Bronx, NY, prepared for Consolidated Edison Company of NY, Inc., by GEI Consultants, Inc., January, 2003.
- Phase I Environmental Site Assessment – Murray Feiss Distribution Center 275-295 Locust Avenue – Bronx, NY, prepared by Environmental Planning & Management, Inc., November 1998.

Remedial Investigation – April 2012

The RI Report for the parcel prepared by URS Corporation-New York, dated April 2012, indicated that, based upon the observed distribution of contamination in the site media, it is apparent that multiple sources of contaminants contributed to the nature and extent of commingled contamination. Subsurface soil was found to contain VOCs, SVOCs, pesticides, and metals above Standards, Criteria, and Guidance values (SCGs). In addition to MGP residuals, it is evident that there is onsite contamination from the property's prior use for fuel storage and possibly from vehicle or maintenance shop operations in addition to dry cleaning solvents from a nearby facility. It was determined that contamination is below the warehouse building floor slab and surrounding sidewalks generally at depths greater than three feet below the surface; therefore, no risk to human health from non-intrusive, uncontrolled exposure to subsurface soil exists at the property.

The extent of MGP-related non-aqueous phase liquids (NAPLs) in soil appears to be situated primarily within the former MGP gas holder #4 structure at depths greater than 14 feet beneath the warehouse floor. This eliminates the potential for non-intrusive, uncontrolled exposure to this contamination.

As a result of onsite historic uses as an MGP, truck storage and refueling station with USTs, and nearby adjacent property uses such as a dry cleaning facility, groundwater within the Block 2598, Lot 46 area contains VOCs, SVOCs, and metals in excess of SCGs. The resulting dissolved phase plume is widespread across the parcel but is primarily contaminated with chlorinated volatile organic compounds (CVOCs) which are not related to MGP facilities, as well as fuel-related contamination, based upon the presence of methyl-tert-butyl-ether (MTBE). However, since groundwater is not currently used as a potable water source, nor is there plans for potable or industrial/commercial use of groundwater as this is not authorized by New York City law, no risk to human health from uncontrolled exposure to groundwater exists at the property.

Sub-slab vapors found during the RI were present at levels that are in excess of New York State Department of Health (NYSDOH) Soil Vapor Intrusion (SVI) Guidance levels for chlorinated VOCs.

Based upon the RI results, it was determined that there is potential of exposure to contaminated soil, soil vapor and/or groundwater as a result of future construction activities within the

building or beneath adjacent sidewalks. It was recommended that plans should be implemented that provide guidelines for the performance of intrusive activities including management of soil and groundwater and worker safety.

Phase I Environmental Site Assessment – November 1998

The Phase I Environmental Site Assessment prepared by Environmental Planning and Management, dated November 10, 1998, indicated the presence of petroleum-related contamination in soil and groundwater discovered during the in-place closure of 15 onsite 550-gallon diesel/gasoline USTs (NYSDEC Spill No. 9005051) related to a former filling station. The USTs were removed in 1995 along with 50 cubic yards (cy) of petroleum-contaminated soil. Following completion of the UST removal and soil excavation and disposal, the NYSDEC issued a closure letter on November 16, 1995.

Environmental Review – March 2004

The Environmental Review of the Murray Feiss Import Corporation prepared by Environ International Corporation (Environ), dated March 2004, identified that the subsurface at the property is contaminated due to the presence of former onsite MGP operations, onsite contamination documented during removal of USTs, and potential for impacts from off-site industrial properties within the surrounding area.

Indoor Air Sampling Report – April 2004

An Indoor Air Sampling Report prepared by Environ, dated April 2004, indicated that while two petroleum-related compounds exceeded the highest published background level in indoor air at the property, these levels were below the Permissible Exposure Limits (PELs) established by the Occupational Safety and Health Administration (OSHA). Environ concluded the concentrations did not pose a concern to human health.

Phase I ESA - 2009

The Phase I ESA was conducted by Roux Associates, Inc. (Roux) in 2009. Work completed as part of the Phase I ESA included: information searches from state and federal regulatory agency databases; freedom of information law requests submitted to federal, state and local regulatory agencies; a review of readily available information including historical aerial photographs, historical Sanborn fire insurance maps, and historical topographic maps; City Directory search; lien search; interviews with property representatives; and observations made during site inspections. Based upon information gathered as a result of the Phase I ESA, Roux identified the following recognized environmental conditions (RECs) in connection with the property:

- Petroleum-related soil and groundwater contamination as documented in 1995 during a previously completed subsurface investigation following removal of fifteen USTs from the property.
- Potential contamination associated with the East 138th Street Works former MGP.
- Identified documented USTs may still be present beneath the former parking lot and property, as indicated in historical Sanborn fire insurance maps. The condition of these USTs is unknown and, therefore, they present a potential environmental hazard to the subsurface.

Although not defined as RECs, Roux also identified the following list of potential environmental concerns that could potentially impact subsurface conditions at the property:

- Other nearby off-site industrial facilities and facilities with USTs with documented releases and impacts to groundwater may have impacted subsurface conditions at the property. These releases may have migrated beneath the property, or pose a threat to impact subsurface soil, groundwater, and soil vapor at the property. These include a dry cleaning facility located at 874 East 139th Street.

- An active NYSDEC spill incident pertaining to the property identified as “Murray Feiss/Former Hertz Rental,” listed under NYSDEC Spill No. 0650009. The spill pertains to a Con Edison report concerning the presence of a “light fuel oil” within some of their manholes located on Locust Avenue. Roux concluded the spill is not associated with Con Edison or MGP operations and it is not clear why NYSDEC has associated this spill with the site.
- An unrelated former MGP, located northeast of the property immediately across Locust Avenue along the East River was identified as the Pintsch Gas Facility. This facility was not owned or operated by Con Edison or its predecessor companies, but based on available Sanborn map appears related to the former New York Central and Harlem River Rail Road Company. It contained numerous oil tanks that supplied purified naphtha necessary for the Pintsch Gas Process. Contamination concerns similar to coal gas MGP sites are often present at Pintsch Gas Process sites.

Phase II ESA – April 2009

The Phase II ESA fieldwork performed by Roux was conducted in April, 2009. Work completed as part of the Phase II ESA included the installation of ten soil borings to depths of 10 to 20 feet bgs, five of which were converted to monitoring wells, and the collection of ten soil samples, five groundwater samples, four sub-slab vapor samples, four indoor air ambient samples, and one outdoor air sample. Analytical results indicated the following:

Soil

- The only VOCs detected in soil at a concentration exceeding Part 375 commercial or industrial use criteria was tetrachloroethene (PCE) in one sample (MWRX-2 at a depth of 7-8 feet). Appendix B presents the Roux sampling locations and information. PCE is used extensively in the dry-cleaning industry as well as a solvent in various manufacturing operations.

- SVOCs, predominantly PAHs were detected in several soil samples at concentrations exceeding Part 375 commercial or industrial criteria. Cyanide was detected above the commercial criteria in one soil sample (SBRX-1).
- No coal tar was detected in any soil borings.

Groundwater

- Groundwater samples from all five of the monitoring wells installed as part of the Phase II ESA were found to contain two or more VOCs at concentrations that exceeded Class GA (April 2000) standards including PCE and its degradation products (trichloroethene, cis-1,2-dichloroethene, 1,1-dichloroethene, vinyl chloride), and petroleum-related compounds (benzene, toluene, ethylbenzene, xylenes, isopropylbenzene, and MTBE) (Roux, 2009). The highest detections of VOCs (including PCE at 39,000 micrograms per liter - µg/L) were detected in the southern portion of the property in groundwater monitoring well MWRX-2, closest to the dry cleaners located across East 139th Street.
- SVOCs exceeded groundwater criteria in four of the five monitoring wells, the majority of which were low-level PAH exceedances in MWRX-5 located in the Former Parking Lot (situated northeast across East 140th Street and not part of the former MGP Site). Naphthalene, acenaphthalene, and/or phenol exceeded criteria in three of the four monitoring wells within and adjacent to the property.

Sub-Slab Vapor and Ambient Air

- Concentrations of VOCs were detected in all sub-slab vapor samples. Detections of relatively consistent VOC concentrations in indoor ambient air samples and outdoor ambient air samples indicated that indoor air quality was being affected more so by the outdoor air than from sub-slab vapor intrusion. Roux concluded that the indoor air VOC concentrations were significantly lower than the VOC concentrations in the sub-slab samples; therefore, the sub-slab VOC concentrations were not impacting indoor air quality.

Previous Investigation Results – Block 2598, Lot 1

An operating dry cleaning facility is located in the northern half of the building situated on this property. The current owners are listed as Carnegie Hotel Cleaners, Ltd. and it is listed as Site # 8-25-880 on NYSDEC's Registry of Hazardous Waste Sites. The current status of the facility from the NYSDEC is not available.

East 138th Street Subsurface Investigation Associated with a 36-inch Gas Main

- Subsurface Investigation by The RETEC Group, Inc. in 2007 to support the 36-inch gas main installation along the southern portion of East 138th Street for Con Edison.

Field investigation activities took place in March 2007 to evaluate subsurface conditions along a portion of the gas main installation between Willow and Locust Avenues. The RETEC Group, Inc. completed utility clearance; advanced soil borings; conducted soil, groundwater, Soil Vapor sampling; and conducted a tidal survey. Nine soil borings were advanced using direct-push methods (i.e., SB-01 through SB-09) to depths ranging from 4 feet to 18 feet bgs. Soil borings SB-07 through SB-09 were advanced between the railroad trestle and toward the west of Walnut Avenue, and SB-01 through SB-06 were advanced between Walnut Avenue and Locust Avenue. Temporary well points were installed in SB-01, SB-02, SB-03, SB-04, SB-07, and SB-09 to assess groundwater quality and tidal influence on water levels. A summary of results is provided presented below, and the report prepared by The RETEC Group, Inc. is provided in Appendix B.

Soil

- Soil was characterized as urban fill overlying marine sediments on top of bedrock. RETEC reported evidence of contamination in borings SB-02, SB-03, SB-04, SB-07, and SB-09. Detected VOCs included benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), acetone, and 2-butanone.
- SVOCs, predominantly PAHs were detected in several soil samples from SB-02, SB-03, SB-04, and SB-09.

- Coal tar-materials were reported in SB-02 (12.5-16 feet bgs), and coal tar-like odors were reported in SB-02 (8.0-11.5 and 12-12.5 feet bgs), SB-04 (16-18 feet bgs), and SB-09 (6.6-8 feet bgs). Other observations of contamination were petroleum related including petroleum odors as presented in Table 1-1 of the RETEC report.

Groundwater

- Groundwater samples from all four of the six temporary monitoring points installed as part of the investigation from SB-01, SB-02, SB-04, and SB-07). The groundwater sample from SB-04 reported benzene above the New York State groundwater criterion. Copper, lead, and nickel were also reported above groundwater standards in SB-02, and lead in SB-04.

Soil Vapor

- Soil Vapor samples were collected from SB-04, SB-07, and SB-09. Concentrations of VOCs were detected in all Soil Vapor samples. Several VOCs were detected above the NYSDOH typical background concentrations for indoor air, although there is no promulgated reference standard for outdoor air.

Environmental Data Resources Review – October 2015

The Environmental Data Resources (EDR) Report is included in Appendix C. There are numerous spills documented from a variety of sources nearby and throughout the site area as indicated in the database listings in Appendix C. The site and surrounding area has been used and will continue to be used for commercial/manufacturing for the foreseeable future.

1.5 RI Report Organization

This report has eight sections. Section 1 includes background information for the site area. Section 2 includes a description of field activities that occurred during the RI. Section 3 includes a description of the physical characteristics and the local and regional geology and hydrogeology. Section 4 discusses the nature and extent of the contamination at the site. Section 5 discusses

contaminant fate and transport. A qualitative HHRA and FWRIA are provided in Section 6.0. Section 7.0 presents a summary and conclusions. Section 8 contains a list of references cited. Tables, Figures, and Appendices immediately follow the text.

2.0 REMEDIAL INVESTIGATION FIELD ACTIVITIES

Field activities performed during the SCS and RI from March 2010 through August 2015 are discussed below. Field notes are provided in Appendix D. URS conducted the following work tasks during the field investigation:

- Task 1 – Utility Clearance
- Task 2 – Overburden Soil Borings and Soil Sampling
- Task 3 – Overburden and Bedrock Monitoring Well Installation
- Task 4 – Well Development
- Task 5 – Fluid Level Gauging
- Task 6 – Groundwater Sampling
- Task 7 – Surveying

2.1 Utility Clearance

Prior to conducting each major phase of intrusive site work utility clearance activities were performed in efforts to eliminate or substantially reduce the potential for damaging subsurface utilities during the field investigation intrusive activities. The utility clearance process entailed:

- Call Dig Safely for Code 753 Markouts;
- Geophysical Survey of Each Intrusive Work Location;
- Site Reconnaissance / Review of Utility Drawings; and
- Hand Excavation

These steps are described below.

Dig Safely was also contacted (1-800-962-7333) and requested to provide a mark-out by all participating utility companies prior to site reconnaissance, as well as the New York City Department of Environmental Protection (NYCDEP) which does not participate in the one-call system. At each intrusive work location and prior to any intrusive activities, the URS drilling subcontractor obtained all necessary permits (e.g., NYCDOT street opening permits) for conducting intrusive activities around the sidewalks, and perimeter of the various streets throughout the site area. After the subsurface testing locations were clearly marked out, the geophysical surveys were initiated. The geophysical survey activities and results are summarized in the following section. Site reconnaissance activities included representatives of Con Edison, property owners, subcontractors, and URS personnel. Utility drawings/plates for sewer and water were obtained from NYC Department of Environmental Protection (NYCDEP) and gas and electric plates were obtained from Con Edison. All subsurface testing locations were marked with paint and labeled accordingly. All intrusive work locations were hand cleared using vacuum and hand excavation methods to a minimum depth of 5 feet bgs, and is further described in Section 2.3 below. The utility clearance steps were used in combination to establish subsurface testing locations in positions at safe working distances from the utilities.

2.2 Geophysical Survey for Markouts

On January 5, 2011, NAEVA Geophysics, Inc., (NAEVA) mobilized a two person crew with ground penetrating radar (GPR) and electromagnetic (EM) induction equipment to the Block 2591, Lot 46 property and nearby areas. The purpose of the geophysical survey was to delineate detectable subsurface utilities and features to aid in the safer placement of the proposed boring locations. Equipment utilized included a Fisher TW-6 Pipe and Cable Location (electromagnetic metal detector), a Subsite 950 utility locator, a 3M Dynatel 2250 locator, and a Malå RAMAC/GPR system with a 250-megahertz antenna. NAEVA marked utilities and anomalies by spray-painting the outline on the concrete surface as soon as they were located. Several soil borings and monitoring well locations were adjusted as appropriate based on the results of the geophysical investigation, or due to proximity to subsurface utilities. A URS geologist supervised and assisted NAEVA. The complete geophysical survey report is provided in Appendix E.

On December 14, 2011, personnel from Geophysical Applications, Inc. performed a GPR survey and utilized a pipe and cable locator to identify subsurface utilities at and near Block 2597, Lot 1. Equipment utilized included a GSSI model SIR-2000 radar instrument with a 400-megahertz antenna, and a Radio Detection model RD400 pipe and cable locating instrument to detect objects carrying an active 50/60 hertz current under load. Multiple small discrete point targets were identified during the survey. Proposed boring and monitoring well locations were adjusted as necessary to avoid subsurface utilities and potential buried hazards. The complete geophysical survey results and report are included in Appendix E.

2.3 Boring, Monitoring Well, and Sampling Location Hand Clearing

Prior to each field work phase, URS subcontracted driller Zebra Environmental, Inc. (Zebra) to the site to hand clear direct push soil boring and monitoring well locations, with the exception of soil borings SB-41 through SB-44 situated inside the warehouse building located at Block 2598, Lot 1. SB-41 through SB-44 were advanced and completed by Aquifer Drilling & Testing, Inc. (ADT). The locations of direct push soil borings SB-1 through SB-22, SB-32 through SB-44, and monitoring wells MW-01 through MW-07 and MW-11, and the soil borings and monitoring wells completed as part of the 295 Locust Avenue RI are shown on Figure 2-1. The rationale for soil borings and monitoring wells are provided in Table 2-1.

Sidewalk soil boring and monitoring well locations were opened using a cutting saw, pry bars, and jackhammer. Soil boring locations inside buildings were opened using 8- to 12-inch diameter core drills. Each location was then hand cleared to a depth of at least 5 feet using a bucket auger, air knife, post-hole digger, and Vactron®. Investigation derived waste (IDW) materials removed from the subsurface testing locations were placed into 55-gallon drums, labeled, and transported off-site for disposal by a licensed waste hauler to a permitted disposal facility. After the locations were cleared, they were either backfilled with clean sand and temporarily patched with concrete, or drilled as described in the following subsections. Soil from each location was screened with a photoionization detector (PID), and detailed visual inspections were completed and recorded in field notes. Up to two soil samples were typically collected from each hand cleared location for off-site chemical analysis.

Samples were collected from the intervals exhibiting odors, staining, the highest PID reading, or some notable visual impact.

2.4 Soil Borings

All soil borings were completed using direct push drilling methods by either Zebra or ADT. Zebra completed drilling operations at soil boring and monitoring well locations utilizing a track-mounted Geoprobe® 6620 DT hydraulic push unit. A 2-inch outside diameter (OD) by 4-foot long acetate lined Macrocore sampler was advanced to obtain soil core samples. The soil sample cores were characterized in detail. The soil borings were advanced to depths ranging approximately 15 feet to 46 feet bgs, due to variations in subsurface stratigraphy and drilling refusal. Refusal was not encountered at all boring locations and soil boring logs are provided in Appendix F.

Upon completion, each soil boring was either backfilled with a bentonite-cement grout (soil borings) or clean sand (monitoring wells). ADT completed soil borings SB-41 through SB-44 inside the warehouse building at Block 2598, Lot 1 using a remote, Geoprobe® 410M at SB-41, and a track-mounted Geoprobe® 6610DT hydraulic push unit at SB-42, SB-43, and SB-44. A 2-inch outside diameter (OD) by 5-foot long acetate lined Macrocore sampler was used to advance soil core samplers. The soil sample cores were characterized in detail. The soil borings were advanced to depths ranging approximately 15 feet to 21 feet bgs and soil boring logs are provided in Appendix F. Refusal was not encountered at all boring locations. Upon completion, each soil boring was backfilled with a bentonite-cement grout and the concrete surface was restored in kind.

2.4.1 Sampling and Analysis

Each soil core was characterized in the field based on color, predominant lithology, grain size, moisture content and evidence of contamination (if any), such as odors, staining, NAPL, or total VOC concentrations as indicated by elevated PID readings. Up to five soil samples were collected from each boring. For most soil borings, a sample was collected at the water table and at the bottom of the boring in accordance with the Work Plan. Additional samples were collected from intervals exhibiting physical evidence of contamination and clean intervals below impacts. Soil boring logs are provided in Appendix F.

Chain-of-custody (COC) forms were maintained and accompanied all sample containers to Mitkem Labs of Warwick, Rhode Island. The samples were analyzed for Target Compound List (TCL) VOCs, TCL SVOCs, and Target Analyte List (TAL) metals as listed in Table 2-2, following USEPA SW846 Methods 8260B, 8270C and 6000/7000, respectively. In addition, select subsurface soil samples collected at Block 2598, Lot 46, were also analyzed for TCL pesticides and polychlorinated biphenyls (PCBs) following USEPA SW846 Methods 8081A/8082 at the request of the property owner. Results for these supplemental analytes are presented in the 295 Locust Avenue RI Report (URS, April 2012 – Appendix A), and not included herein.

To assess the potential sources of PAH contamination and fuel-related compounds present throughout the site area, a total of 16 soil samples were sent to META Environmental, Inc. (META) for forensic analysis. Samples were generally selected based upon field screening during drilling and biased to depth intervals that exhibited physical evidence of contamination. The samples were analyzed for hydrocarbon fingerprints and extended PAH analyses/diagnostic ratios as part of the forensics characterization. A COC form was maintained and accompanied all sample containers that were shipped to META.

All IDW generated from the soil borings and monitoring well installation was containerized in 55-gallon drums and picked up by Clean Venture for off-site disposal at a permitted facility.

2.5 Groundwater Monitoring Well Installation

2.5.1 Overburden Monitoring Wells

At each monitoring well location, a soil boring was advanced using the hollow stem auger method with soil core collected by driving Macrocore samplers into the soil (as described above) in advance of the augers and collecting soil samples. Once the augers were advanced to the specified well depth, a well was generally constructed with a 5 to 10 feet long 2-inch inside diameter (ID), Schedule 40 polyvinyl chloride (PVC) well screen and solid riser to grade. A #1 size sand pack was installed from the bottom of the well up to 2 feet above the top of the well screen. A bentonite slurry was then installed around the riser to an elevation of 0.5 foot below grade. Each monitoring well was finished with a locking well cap, an approximately 2-foot square concrete apron, and a flush-mounted curb

box. Security bolts were installed in the well covers to minimize the potential for unauthorized well access. The concrete apron for each well pad was approximately 6 inches thick. Table 2-3 summarizes the well construction information.

Eight shallow monitoring wells (MW-01 through MW-07 and MW-11) were installed. Monitoring well construction details are summarized in Table 2-3. Well construction for several wells varied from the general approach described above in order to comply with location-specific variables, such as overburden thickness and groundwater depth. For example, MW-05 was set between 3 and 20.5 feet bgs to accommodate a longer monitoring interval, and the well screen in MW-07 was set between 4.6 and 9.6 feet bgs. The well screens at the other well locations were nominally set between depths of 3 to 13 feet bgs, straddling the water table surface.

2.5.2 Bedrock Monitoring Wells

Bedrock monitoring wells BW-01 through BW-04 were completed by Glacier Drilling, LLC in December 2011 and January 2012 around the perimeter of Block 2598, Lot 46 at the locations depicted in Figure 2-1 and Plate 2. Bedrock monitoring wells were completed using a truck-mounted CME 55 drilling rig using a 6-7/8 – inch casing and hammer down to the bedrock surface. SQ rock cores and/or roller bit were then used to install a 3- to 5-foot rock socket and to confirm bedrock depth. After the rock socket was completed, a 4-inch ID carbon steel casing was seated to the bottom of the rock socket and grouted in place. After at least 24-hours to allow the grout to cure, drilling continued using a HQ core barrel to completion depth. Rock core samples were characterized in detail for: fractures and fracture orientation; rock type; PID screening; notable characteristics including color and presence or absence of petroleum, chemical, or MGP odors or impacts; sheen on cores or return water and cuttings; rock quality designation (RQD) measurements; and recovered core intervals. The bedrock monitoring wells were then constructed with 10 feet of 2-inch ID, Schedule 40 PVC 0.010-inch slot screen and riser. A 2-foot PVC sump was placed at the bottom of the well screen. The well screens were nominally set between depths of 25 to 35 feet bgs and 39 to 49 feet bgs. A #1 size sand pack was installed from the bottom of the well up to 2 feet above the top of the well screen. A bentonite slurry was then installed around the riser to an elevation of 0.5-foot below grade. Each monitoring well was finished with a locking well cap, a 2-foot square concrete apron, and a flush-mounted curb box. Security bolts were installed in the well covers to minimize the potential for

unauthorized well access. The concrete apron for each well pad was approximately 6 inches thick. Monitoring well construction logs are provided in Appendix G. Table 2-3 summarizes the well construction information.

2.5.3 Groundwater Monitoring Well Development

At least 24 hours after the monitoring wells were installed, the wells were developed by URS personnel with the pump and surge development method using a ½” diameter HDPE tubing and a surge block and pumping with a peristaltic or hydrolift pump. Prior to well development, a 100-foot long Solinst oil/water interface probe and/or cotton twine with weight were used to check for the presence and thickness of any free product. Because MW-03 and MW-05 contained measurable amounts of light non-aqueous phase liquid (LNAPL), these wells were not developed (Table 2-2). During well development, water quality parameters (pH, specific conductivity, temperature and turbidity) were measured using a Horiba U-22 Multiparameter Meter and a Lamotte 2020 turbidimeter and recorded on well development logs. A monitoring well was considered developed when water quality parameters had stabilized and turbidity was consistently below 50 nephelometric turbidity units (NTUs). Monitoring well development logs may be found in Appendix H. Well development water was collected into DOT approved 55-gallon drums and picked up periodically by Clean Venture for off-site disposal at a permitted facility.

2.6 Groundwater Levels, and NAPL Measurements

Groundwater levels were collected periodically in both the newly-installed monitoring wells and the existing Roux monitoring wells during the field investigation. The water level measurements were used to develop groundwater contour elevation maps. Gauging of fluid levels (i.e., depth to groundwater and NAPL and thickness of accumulated NAPL, (if any) in monitoring wells was performed periodically. Fluid levels were determined using a 100-foot long Solinst oil/water interface probe. Table 2-4 provides a summary of the gauging measurements. Light non-aqueous phase liquid (LNAPL) was encountered in MW-03 and MW-05. These wells are located on East 141st Street and East 138th Street, respectively, and dense non-aqueous phase liquid (DNAPL) was encountered in bedrock monitoring well BW-01, which is located on East 139th Street.

2.7 Groundwater Sampling

Between August 15 and 18, 2015, URS collected groundwater samples from monitoring wells MW-01 through MW-07, MW-11, MWMF-1 through MWMF-8, and BW-01 through BW-04 plus quality assurance/quality control (QA/QC) samples. Samples were collected using low-flow sampling procedures. Bedrock monitoring wells BW-01 through BW-04 were also sampled in March 2012, shortly after they were installed. Prior to sample collection for each sampling event, standing water was purged from each well with a Geopump peristaltic pump using dedicated/disposable HDPE tubing. Wells were purged at a rate of approximately 100 to 300 milliliters per minute or less and the purge rate was adjusted to minimize draw down. During the purging of the well, water quality parameters (pH, specific conductivity, temperature, dissolved oxygen, turbidity) were measured using a Horiba U-22 Multi-parameter Instrument with a flow-through cell and a Lamotte 2020 turbidity meter and documented on the purge log. Samples were collected after the water quality parameters stabilized. Purge logs are provided in Appendix I. Purge water was collected into DOT approved 55-gallon drums, and was picked up by Clean Venture for off-site disposal.

All samples were transported under COC via laboratory courier to Mitkem Labs. The samples were analyzed for TCL VOCs, SVOCs, TAL metals, and total cyanide as listed in Table 2-2. In addition, the LNAPL in MW-03 was also sampled for Total Petroleum Hydrocarbons (TPH) during the August 2015 sampling event.

2.8 Slug Testing

At the Block 2598, Lot 46 property, and as part of the 295 Locust Avenue RI, slug testing was conducted on monitoring wells MWMF-1 through MWMF-8 to estimate the horizontal hydraulic conductivity of the overburden. Falling head tests were performed by recording the initial water level in the well, lowering a pressure transducer/datalogger (In-situ MiniTroll) into the well, inserting a decontaminated slug to raise the water level in the well, and recording the water level over time until it returned to the original static level. Rising-head tests were performed immediately following completion of the falling head test. With the slug already in the water column, the static water level was recorded; the slug was then removed, and water level readings were taken as the water level

gradually returned to static condition. Aquifer testing data and results are included in the 295 Locust Avenue RI Report contained in Appendix A and discussed in Section 3.0.

2.9 Investigation Derived Waste Disposal

With the exception of the August 2015 groundwater sampling event, Clean Venture, Inc. was contracted for the pick-up and disposal of all drummed solids and liquids at a permitted disposal facility. AARCO Environmental Services Corporation was contracted for the pick-up and disposal of the drummed liquids in August 2015.

2.10 Site Survey

URS surveyed the areas investigated, including all new soil borings and monitoring wells, and relevant site features for location and elevation. The survey provides 100-scale mapping. All surveying was performed under the supervision of a New York State licensed land surveyor. All vertical control points were referenced to the North American Vertical Datum 1988 (NAVD 1988). Horizontal datum was referenced to the North American Datum of 1983 (NAD83), New York State Plane Coordinate System, Long Island Zone. Copies of survey coordinates, field notes, and Property sketches are provided in Appendix J.

3.0 PHYSICAL CHARACTERISTICS OF THE STUDY AREA AND GEOLOGY

This section discusses the physical characteristics of the site including: demography and land use; surface features; utilities; regional and site geology; groundwater use; slug test results; surface water hydrology; and SCGs.

3.1 Demography and Surrounding Land Use

The former MGP site area is zoned M3-1, an industrial and manufacturing district, and current uses include commercial, manufacturing, and dry cleaning facilities. Land use in the surrounding area is predominantly industrial paper manufacturing, a marble importing facility, steel cutting facilities, the MOSF, dry cleaning facilities, and storage warehouses. The nearest residential area, according to New York City GIS mapping, <http://gis.nyc.gov/doitt/nycitymap>, is located near the corner of Locust Avenue and East 141st Street. The population of the Bronx is 1,385,108 according to the 2010 Census.

3.2 Surface Features

The site encompasses an area of approximately twelve acres and slopes gently downward from the Bruckner Expressway west of Rose Feiss Blvd. toward the East River. The average elevation ranges from approximately 10 to 20 feet amsl. Surface elevation in the immediate vicinity of the former MGP site is generally flat and ranges only from approximately 8 to 10 feet amsl. The shoreline of the East River downgradient of the former MGP site consists of a steel sheeting bulkhead. Potable water in the Bronx is supplied by the New York City water system.

The various parcels that once were occupied by the former MGP site are nearly completely covered with warehouse buildings, streets and sidewalks, and industrial facilities. Very limited green space is present on the residential properties east of the site area along Locust Avenue near the corner of Locust Avenue and East 141st Street, and in small tree boxes along the sidewalk areas throughout the site.

3.3 Utilities

Utilities on and near the site area include underground water, electric, communication, natural gas, sanitary and storm sewer. Light poles are present within the sidewalk throughout the site area. Utility locations detected within and outside of the building(s) investigated in the site area during the course of the geophysical investigation(s) are provided in Appendix E.

Natural gas service is provided to the area by National Grid, and is used in the warehouse buildings. There is a 36-inch high pressure gas line along East 138th Street from Bruckner Boulevard to Locust Avenue and along portions of Locust Avenue and is maintained by Con Edison. Electrical service is supplied by Con Edison. Sanitary waste and wastewater throughout the site area is discharged to the municipal combined sewer. Floor drains within the buildings are all connected to the storm sewer.

3.4 Regional Geology

The former MGP site is located near the border between the New England Uplands and the Atlantic Coastal Lowlands physiographic provinces. The overburden is predominantly comprised of miscellaneous fill, glacial till and recent alluvium including clay, silt, sands, gravel, cobbles, and boulders overlying bedrock. Bedrock consists of the Fordham Gneiss, Middle Proterozoic in age, and the Inwood Marble, Early Ordovician to Early Cambrian in age. The overburden is estimated to be between 4 and approximately 46 feet deep and is comprised of predominantly miscellaneous fill, glacial till and tidal marsh deposits.

The former MGP site is located near a northeast trending geologic contact between the Fordham Gneiss and the Inwood Marble (Fisher et al., 1970). The Fordham Gneiss is subdivided into four Members (A through D). Member A consists of predominantly pinkish white to salmon-red and medium gray gneiss. Member B consists predominantly of black and white banded gneiss. Members C and D are largely undivided comprised of schistose-, hornblende-, amphibolite- and quartz gneiss rocks. The Inwood Marble consists predominantly of calcite and dolomitic marble. Based on the geologic mapping of the area, Member B of the Fordham Gneiss and rocks of the Inwood Marble underlie the western portion of the former MGP site. There is reportedly a northeast trending thrust fault that thrust older rocks of the Manhattan Schist over the younger rocks of the Inwood Marble and

Fordham Gneiss. This thrust fault is mapped in the area of the western boundary of the former MGP site near the railroad tracks northwest of Rose Feiss Boulevard (Fisher et al., 1970).

3.5 Site Geology

Figure 3-1 presents the locations of the monitoring wells and cross sections developed from subsurface information gathered as part of the RI. Cross sections A-A', B-B', C-C', and D-D' are shown on Figures 3-2 through 3-5, respectively. Lithology observed in the soil borings indicated that the site is underlain by a series of unconsolidated sediments overlying bedrock. The overburden includes an upper fill layer, overlying natural alluvial sediments interbedded with sand, silt and sand, gravel, clayey silt, clay, and silty peat and peat.

The fill unit ranges from approximately 5 to 13-foot continuous layer comprised of sand, gravel, rock and brick fragments, and other anthropogenic materials. The fill layer appears to be thickest beneath the warehouse buildings located at Block 2598, Lot 46 and Block 2598, Lot 1. In the area immediately surrounding and within the former gas holder #4 on Block 2598, Lot 46, fill material extends to a maximum depth of 46 feet. The fill materials on Block 2598, Lot 1 around the former gas holders extends to approximately 21 feet bgs.

Throughout the site area, an alluvial sand unit represented by stratified sands of varying textures containing some to no fines is present to the top of bedrock. Three distinct layers were observed within the sand unit at Block 2598, Lot 46. In areas outside the footprint of former gas holder #4 (Plate 1), a layer approximately 2 to 16 feet thick of silt, sand and gravel, continuously underlies the fill layer. A zero to 10-foot thick clayey silt layer, that includes peat and other organic material, is found below the silt, sand and gravel layer over the majority of Block 2598, Lot 46 west of Locust Avenue.

A sand, and silt and sand layer, between zero and 25 feet thick, is present above the top of bedrock in the central portion of Block 2598, Lot 46 (Figure 3-2). A clay wedge, approximately up to 20 feet thick, was found between the silt and peat layer and underlying sand layer west of Rose Feiss Blvd. Interstratified sands with silt, and clay and silt, up to approximately 25 feet thick were observed along the southern portion of Block 2598, Lot 46.

An estimated top of bedrock elevation contour is provided in Figure 3-6. The bedrock surface elevation was estimated based upon drilling refusal obtained at most boring locations, and confirmed bedrock depths at bedrock monitoring wells BW-01 through BW-04. The URS supervising geologist noted at several boring locations the presence of igneous and intrusive rock fragments lodged within the macrocore sampler at refusal depths. The estimated bedrock surface slopes away from the East River, from approximately -10 feet amsl near Locust Avenue to approximately -20 to -25 feet amsl near the intersection of Rose Feiss Boulevard and East 140th Street. The bedrock appears to have been excavated to approximately -33 feet amsl in the vicinity of former gas holder #4, and appears to be approximately -10 feet amsl near gas holders #1 through #3 (Plate 1).

3.6 Groundwater Use and Hydrogeology

The primary hydrogeologic unit identified beneath the investigation area is the upper glacial aquifer. The groundwater within the overburden is present in unconfined conditions and is not used for potable purposes. The water table surface was found to be between approximately 3 and 6 feet bgs depending on the well location and time of year that water level gauging was performed. Classification of groundwater at the site is GA. Several rounds of groundwater levels were obtained during the RI and measurements are generally consistent between rounds. The water levels measured during the August 2015 synoptic gauging were used to develop the shallow overburden and bedrock groundwater contour maps provided in Figures 3-7 through 3-10. These figures show groundwater elevations based on water levels measured during both high and low tide. Water level measurements are included in Table 2-4.

Based on water levels measured on August 11, 2015 during high tide (Figure 3-7), a groundwater mound occurs which is centered beneath Block 2598, Lot 46. Groundwater flows radially away from the mound. A relatively shallow horizontal hydraulic gradient is apparent east of Locust Avenue. For the August 12, 2015 water level round during low tide in the shallow overburden (Figure 3-8), there is a relatively steep hydraulic gradient east of Locust Avenue toward the East River. The groundwater mound situated at Block 2598, Lot 46 was also still present, and horizontal hydraulic gradients are somewhat steeper with very similar groundwater flow directions around the mound as compared to Figure 3-9. Based upon water levels obtained, there is tidal influence in the shallow

overburden groundwater and it is most apparent east of Locust Avenue, but does extend further west to a much lesser degree. Since the East River water level elevations were generally lower than most of the water level measurements recorded in the monitoring wells during low tide, the overall groundwater flow is toward the East River. However, locally and in the immediate area around the Block 2598, Lot 46, there appears to be variations in the direction of groundwater flow. The local deviations to the overall flow (i.e., towards the East River) are likely due to variations in subsurface geology, bedrock topography, and presence of subsurface utilities and structures that may impact localized groundwater flow.

Bedrock wells are only located around the perimeter of Block 2598, Lot 46, and as such, the observations and conclusions are limited to this area. For the August 11, 2015 water level round during high tide in the bedrock (Figure 3-10), groundwater flows from BW-01 and BW-04 towards the west and southwest at Block 2598, Lot 46. Horizontal hydraulic gradients are relatively shallow as there is not much variation across the Block. For the August 12, 2015 water level round during low tide in the bedrock (Figure 3-10), there is very little difference compared to the measurements recorded during high tide, and generally similar groundwater flow direction. Based upon water levels obtained in in bedrock, there is no apparent measurable tidal influence in the bedrock groundwater. Since the East River water level elevations were lower than the water level measurements recorded in the bedrock monitoring wells during low and high tides, the overall groundwater regional flow is expected to be toward the East River.

Vertical hydraulic gradients were calculated at both overburden and bedrock monitoring well pairs located at the site as shown on Table 3-1 (i.e., MWMF-07S/MWMF-07D and MWMF-08/BW-02, and MWMF-05/BW-03). The vertical hydraulic gradients on August 11, 2015 were determined to be flat at MWMF-07S/MWMF-07D (0.0 ft/ft), downward at MWMF-08/BW-02 (0.0217 ft/ft), and upward at MWMF-05/BW-03 (0.0252 ft/ft). Overall, there is no appreciable vertical gradient between groundwater in the overburden and bedrock.

3.7 Slug Test Results

In efforts to assess the hydraulic conductivity of the water table aquifer, rising and falling slug tests were performed in monitoring wells around the perimeter of Block 2598, Lot 46 as part of the

295 Locust Avenue RI in 2011. Slug test results are presented on Table 3-2. Both rising head and falling head slug tests were performed in each monitoring well and analyzed using the Bouwer and Rice Method in the software AQTESOLV (2003). In all cases, the rising head and falling head results were within one order of magnitude of each other. The representative hydraulic conductivity (K) was computed as the geometric mean of the rising and falling head values in each monitoring well. The mean hydraulic conductivity in the overburden ranged from 1.7×10^{-4} cm/sec (MWMF-03) to 3.86×10^{-3} cm/sec (MWMF-07S) with an overall mean K of 8.4×10^{-4} cm/sec for the alluvial sand unit.

3.8 Surface Water and Hydrology

The East River connects long Island Sound to the north with Upper New York Bay to the south and is characterized as a tidal strait. The Bronx River drains into the northern portion of the strait. The East River is classified by NYSDEC as Class I and SB, indicating that the best uses are for secondary contact recreation and fishing, and primary and secondary contact recreation and fishing (6 NYCRR Part 701). These waters are defined by NYSDEC as suitable for fish, shellfish, and wildlife propagation and survival. The NYS DEP classifies the East River use as Classification I, indicating it is safe for secondary contact including boating and fishing, however, there are advisories and restrictions for fishing and shell fishing due to poor water and sediment quality due to past industrial and municipal discharges. The water quality of the East River is impaired due to low dissolved oxygen, contamination with poly chlorinated biphenyls (PCBs), and other toxics from numerous combined sewer outfalls (CSOs), municipal discharges of nutrients, urban storm water runoff, and illegal sanitary connections to storm sewers (NYSDEC – Bronx River/East River Watershed [0203010201]).

Surface water levels within the East River vary depending on the tide. High tides in the East River at Kings Point on August 11, 2011 (on the same day as groundwater elevations were obtained from onsite monitoring wells) were at elevations of 4.82 and 3.85 amsl at 10:30 pm and 9:00 am, respectively; low tides were at elevations of -3.04 and -3.25 feet amsl at 4:18 pm and 4:42 am, respectively (NOAA, 2011).

3.9 Field Observations and Measurements

Qualitative observations noted by the URS field geologist were recorded on the boring logs and are summarized in Tables 3-3 and 3-4. Figures 3-11 and 3-11A depict the qualitative observations at the various properties. These observations included odors and visual field observations of petroleum impacts, undifferentiated chemical odors, and MGP-related impacts (i.e., sheens, NAPL). PID results, observations of staining and odors, and presence of sheens and NAPLS are further summarized below.

- PID readings ranged from non-detect (ND) to as high as 2,620 ppm across the site. The highest PID readings were observed at and near former gas manufacturing structures including the former gas holders #1 and #2, the former water gas plant and tar wells, and ancillary former MGP structures on Block 2598, Lot 1. Lower PID readings in the range of 1 to 85.6 ppm occurred at and near former MGP structures including the pipe racks, gasoline UST, coal shed, and coal storage area, as well as near the known heating oil spill on Block 2591, Lot 46. Minor PID impacts in the range of 1 to 38 ppm were observed near areas adjacent to the former MGP structures at Block 2597, Lot 1. PID readings were elevated in a monitoring well on Block 2592, Lot 35 and appear to be associated with petroleum impacts as there was LNAPL observed in this well. PID observations were also elevated in the range of 1 to 118 ppm in the bedrock monitoring wells located around Block 2598, Lot 46.
- Staining and sheens were observed within and adjacent to the former MGP structures including the water gas plant, gas holders #1 and #2, separators, and water gas condensers on Block 2598, Lot 1. Sheens and petroleum impacts were also observed at locations near the known heating oil UST and spill on Block 2591, Lot 46. A tar coating was observed adjacent to the former tar tanks on Block 2597, Lot 1, and in a few bedrock fractures in bedrock wells BW-01 and BW-02 on Block 2598, Lot 46.
- Odors were generally observed across the site area, and in general, were observed where other impacts were noted including staining, sheens, and NAPLs were observed.
- LNAPL was observed in MW-03 on Block 2592, Lot 35 where 1.3 to 2.3 feet of LNAPL was measured, which is petroleum related. LNAPL coatings were observed in soil borings near the former heating oil UST on Block 2591, Lot 46. Coal tar DNAPL was observed at depths between 5 and 20 feet bgs in soil borings advanced within the footprint of the former gas holders #1 and #2 on Block 2598, Lot 1. Coal tar DNAPL was measured at 2 feet in bedrock well BW-01 on Block 2598, Lot 46.

4.0 NATURE AND EXTENT OF CONTAMINATION

The following sections discuss the results of the soil and groundwater sample analyses for the RI fieldwork at the various properties across the former MGP site. Analytical results for soil, groundwater, indoor air/soil vapor, and outdoor air obtained as part of the 295 Locust Avenue RI (i.e., Block 2598, Lot 46) are summarized in Section 1 of this submittal and the entire RI report is included in Appendix A on CD (URS, April 2012). Block 2598/Lot 46 is currently being managed under Brownfield Cleanup Program (BCP Site #203053-05-12) and an Environmental Easement (EE) for the property was filed and authorized by NYSDEC on February 22, 2014.

4.1 Standards, Criteria and Guidance Values

For each medium analyzed, detected concentrations of individual analytes detected were compared to applicable standards, criteria and guidance values (SCGs). The site-specific SCGs are as follows:

Soil

Two criteria are considered as SCGs for all site soil samples.

1. Part 375 unrestricted use criteria are considered to assist in the development of a remedial alternative capable of achieving unrestricted future use, as required by DER-10 Section 4.4 (b) 3 ii; and,
2. Part 375 commercial use criteria are considered appropriate for comparison based on current use and anticipated future use.

The respective Soil Cleanup Objectives (SCOs) are included in the soil analytical tables presented herein.

Groundwater

The SCGs for groundwater are the Ambient Water Quality Standards and Guidance Values (AWQSGVs) for Class GA standards and guidance values presented in NYSDEC Technical and

Operational Guidance Series (TOGS) 1.1.1 (April 2000 and including subsequent revisions). These groundwater AWQSGVs are included on the groundwater analytical tables presented in Section 4.

4.2 Soil Analytical Results

As described in section 4.1, analytical results were compared to Part 375 unrestricted and commercial SCOs. A total of 108 soil samples (plus 6 field duplicates and additional QA/QC samples) were collected from 43 soil boring locations.

The analytical results for the analytes detected in the subsurface soil samples are summarized in Table 4-1. Analytical results exceeding SCOs for the respective criteria are indicated on the table. Table 4-2A and Table 4-2B provide a statistical summary of the detected TCL parameters and comparisons to unrestricted and commercial use criteria, respectively, for all soil samples collected as part of the RI field activities across the various properties and include: the number of detections; the minimum, maximum and average values; and the location and depth of the maximum value. The complete validated analytical results from the RI soil samples are presented in the Data Usability Summary Report (DUSR) in Appendix K, on CD. Data summary tables, Form I and Form Ie (TICs) are provided in the DUSR and include the reporting limit for each non-detected compound.

A summary of the detected analytical results exceeding criteria in the RI soil samples for each parcel investigated as part of this RI Report is presented in Tables 4-3A (Block 2592, Lot 35), 4-3B (Block 2598, Lot 62), 4-3C (Block 2591, Lot 46), 4-3D (Block 2590, Lot 51), 4-3E (Block 2598, Lot 1), and 4-3F (Block 2597, Lot 1). Totals of BTEX, VOCs, PAHs, and SVOCs are provided on Tables 4-3A through 4-3F. Statistical summaries of the detected TCL parameters and comparisons to unrestricted and commercial use criteria for each property are presented in Tables 4-4A through 4-4F and 4-5A through 4-5F, respectively.

The locations of detected VOC and SVOC subsurface soil analytical results that exceeded unrestricted use criteria were observed at: properties north of East 139th Street; at Block 2590, Lot 51; and Block 2597, Lot 1; perimeter of Block 2598, Lot 1; and interior portions of Block 2598, Lot 1 (Figures 4-1, 4-2, 4-3, and 4-4, respectively). A detailed narrative is provided below.

4.2.1 Unrestricted Use Criteria Comparison

Block 2592, Lot 35

Two perimeter soils borings were advanced in sidewalk areas at this property. A total of six soil samples (including duplicates) were collected at multiple depths from MW-03 and SB-06 at this property (Table 4-3A). There were no VOC or SVOC detections above Unrestricted Use SCOs in SB-06. Detections above Unrestricted Use SCOs in MW-03 included VOCs, SVOCs, and metals. VOC detections above SCOs include benzene, xylenes, isopropylbenzene, and acetone. Detected SVOCs above Unrestricted Use SCOs include PAHs and di-n-butylphthalate. Total BTEX concentrations were reported at 0.0013 mg/kg at SB-06 (4.5-5.5') and 0.66 mg/kg at MW-03 (6-7'), and total VOCs ranged from 0.01 mg/kg in SB-06 (4.5-5.5') to 4.156 mg/kg in MW-03 (6-7'). Detected PAHs ranged from 0.726 mg/kg in SB-06 (4.5-5.5') to 55.42 mg/kg in MW-03 (6-7'). Metals exceeding Unrestricted Use SCOs included aluminum, chromium, copper, iron, mercury, and zinc.

Block 2598, Lot 62

One soil boring was advanced in the sidewalk area at this property. Three soil samples (including duplicates) were collected from MW-04. VOCs were not detected above Unrestricted Use SCOs. Two SVOCs were detected above SCOs including 2-methylnaphthalene at 10 mg/kg, and di-n-butylphthalate at 0.11 mg/kg (Table 4-3B). Metals exceeding Unrestricted Use SCOs included aluminum, calcium, and iron.

Block 2591, Lot 46

Seventeen soil borings were advanced in both interior portions and the sidewalk areas at this property. Fifty-three soil samples (including duplicates) were collected from multiple depths at 16 locations throughout this property (Table 4-3C). Detected analytes above Unrestricted Use SCOs included acetone, benzene, ethylbenzene, and xylenes. Acetone is a common laboratory contaminant. BTEX analytes were not detected at 13 sample locations. BTEX analytes were detected at 19 sample intervals at concentrations ranging from 0.0022 mg/kg at SB-35 (9.5-10') to 13.308 mg/kg at SB-37 (8.5-9'). BTEX detections above 1 mg/kg were observed at SB-37 and MW-01. SB-37 is situated near the 10,000 gallon fuel oil UST and MW-01 is adjacent to the former MGP pipe racks. Acetone was

detected above criteria at two locations, SB-37 (max. 0.11 mg/kg from 8.2-9') and SB-39 (5-5.5') at 0.059 mg/kg.

There were numerous exceedances of Unrestricted Use SCOs in RI soil samples for SVOCs, primarily PAHs in the eastern portion of the property near the 10,000 gallon UST (SB-38 – 7.8-8.5'), and in the northwest portion of the property near former MGP structures including the former pipe racks and gasoline UST at various depths (MW-01), and at the highest concentrations at SB-05 (6.5-7') along the southwest edge of the property which is situated near a former MGP coal shed. In general, there were fewer or no exceedances in the central and western central portion of the property. Most individual SVOC exceedances identified on Table 4-3C were PAHs. Cresols, phenol and di-n-butylphthalate were the only non-PAH SVOCs detected at four locations and were positively identified above criteria at maximum concentrations exceeding Unrestricted Use SCOs in SB-05 (6.5-7') and SB-32 (3-4').

Detected PAH concentrations above 100 mg/kg were reported at six locations: SB-39 (132.23 mg/kg – 6.7-7.7'); SB-33 (285.6 mg/kg – 10.5-11'); SB-36 (827.8 mg/kg – 3-4'); MW-01 (1,254 mg/kg – 11-12'); SB-38 (3,343 mg/kg – 7.8-8.5'); and SB-05 (5,978 mg/kg – 6.5-7'). SB-33, SB-36, SB-38, and SB-39 are situated near the 10,000 gallon fuel oil UST, and MW-01 and SB-05 are situated adjacent to/near the former MGP pipe racks and gasoline UST, and the former MGP coal shed, respectively. Metals exceeding unrestricted use criteria included aluminum, arsenic, barium, cadmium, calcium, chromium, copper, iron, lead, mercury, nickel, selenium, vanadium, and zinc.

Block 2590, Lot 51

Ten soil samples (including duplicates) were collected from multiple depths at three locations along the eastern sidewalk perimeter of this property (Tables 4-3D and 4-4D). BTEX compounds were detected but no VOCs were detected above Unrestricted Use SCOs. Detected SVOCs above SCOs were all PAHs. Total PAHs ranged from non-detect to 38.772 mg/kg in SB-11 (3-4'). Metals exceeding unrestricted use criteria included aluminum, calcium, copper, chromium, iron, lead, mercury, vanadium, and zinc.

Block 2598, Lot 1

Fourteen soil borings were advanced at this property. Ten soil borings were advanced in perimeter sidewalk areas and 4 soil borings were advanced at interior portions of the warehouse. Three of the four interior borings were advanced within the footprint of each of the former gas holders. Forty-four soil samples (including duplicates) were collected from multiple depths around the property perimeter (Figure 4-3) and southern half of the building interior Figure 4-4).

No VOCs or SVOCs were reported above Unrestricted Use SCOs from five soil samples collected at SB-13 and SB-14 which were situated along the western property perimeter (Table 4-3E). Detected analytes above SCOs included acetone, benzene, toluene, ethylbenzene, xylenes, isopropylbenzene, styrene, and cis-1,2-DCE. BTEX analytes were not detected above SCOs at 4 sample locations. BTEX analytes were detected at sixteen sample intervals at concentrations ranging from 0.0012 mg/kg at SB-16 (3.5-4') to 13,700 mg/kg at SB-44 (10-12'). BTEX detections above 100 mg/kg were observed at MW-05 (312 mg/kg - 20.5-21'), SB-44 (13,700 mg/kg - 10-12'; and 7,190 mg/kg -15-20'), and SB-43 (3,632 mg/kg - 10-12'). Acetone, a common laboratory contaminant, was detected above SCOs at five locations at concentrations ranging from 0.22 mg/kg at SB-08 (7-7.8' and 10.5-11') and 0.076 mg/kg at SB-08 (5-6'). Isopropylbenzene was reported above SCOs at two locations, SB-08 (2.5 mg/kg - 10.5-11') and SB-44 (25 mg/kg - 10-12').

There were numerous exceedances of Unrestricted Use SCOs in RI soil samples for SVOCs, primarily PAHs, around the southern, eastern, northern perimeter of the property, and southern interior of the building. In general, there were fewer or no exceedances of Unrestricted Use SCOs in the central and western central portion of the property. Most individual SVOC exceedances of Unrestricted Use SCOs identified on Table 4-3E were PAHs. Phenol, di-n-butylphthalate, and 1,1-biphenyl, cresols, and 2,6-dinitrotoluene were the only non-PAH SVOCs detected at above of Unrestricted Use SCOs and were positively identified at maximum concentrations exceeding Unrestricted Use SCOs in SB-43 (10-12'), SB-41 (0.5-1'), SB-44 (15-20'), SB-43 (10-12'), and MW-05 (20.5-21'), respectively.

Detected total PAH concentrations above 100 mg/kg were reported at 17 samples from nine locations: SB-15 (2,159.4 mg/kg - 3-3.5'; 214.05 mg/kg - 6-6.5'); SB-42 (1,464.6 mg/kg - 18.5-

19.5'); MW-05 (143.68 mg/kg – 3-3.5'; 113.1 mg/kg – 4.5-5'; 100.14 mg/kg – 15-16'; and 1,118 mg/kg – 20.5-21'); SB-08 (325.09 mg/kg – 10.5-11'); SB-44 (20,238 mg/kg – 10-12'; 146,280 mg/kg -15-20'); MW-06 (799.4 mg/kg – 10.5-11'); SB-17 (266.31 mg/kg – 3-3.5' and 3,790 mg/kg – 12-12.5'); SB-07 (862.2 mg/kg – 3-4'; 264.11 mg/kg – 4.5-5.5'; 268.5 mg/kg – 13.3-14.2'); and SB-43 (90,880 mg/kg – 10-12'). PAHs were detected at the highest concentrations from samples collected with former gas holders #1 and #2, and along the southern and eastern property perimeter. Metals exceeding Unrestricted Use SCOs included aluminum, arsenic, cadmium, calcium, chromium, cobalt, copper, iron, lead, mercury, nickel, selenium, vanadium, and zinc.

Block 2597, Lot 1

Six soil borings were advanced at perimeter locations around this property. Fifteen soil samples (including duplicates) were collected from multiple depths at six locations along the southern, northern, and western perimeter of this property (Table 4-3F). Acetone was the only VOC detected above Unrestricted Use SCOs and only at SB-19 (5-5.5'). Detected SVOCs above SCOs were PAHs and di-n-butylphthalate. Total PAHs ranged from 0.361mg/kg in SB-18 (8.5-9') to 800.2 mg/kg in SB-21 (10-11'). Metals exceeding Unrestricted Use SCOs included aluminum, barium, calcium, chromium, cobalt, copper, iron, lead, nickel, vanadium, and zinc.

4.2.2 East 138th Street Works Site Metals Summary

Metals exceedances were generally found across the greater East 138th Street former MGP site area. Metals are common constituents in historic fill throughout the greater New York City area. Detected concentrations may reflect the nature of historic fill which was found at various depths across the site area.

4.2.3 Commercial Use Criteria Comparison

A summary of the detected analytical results exceeding Commercial Use SCOs in the RI soil samples for each property investigated as part of this RI Report is presented in Tables 4-3A (Block 2592, Lot 35), 4-3B (Block 2598, Lot 62), 4-3C (Block 2591, Lot 46), 4-3D (Block 2590, Lot 51), 4-3E (Block 2598, Lot 1), and 4-3F (Block 2597, Lot 1). Statistical summaries of the detected TCL

parameters and comparisons to Commercial Use SCOs for each property are presented in Tables 4-5A through 4-5F. The locations of detected VOC and SVOC soil results from samples collected during the RI that exceeded Commercial Use SCOs at properties north of East 139th Street and south of East 139th Street are shown on Figures 4-5 and 4-6, respectively.

There were no VOC exceedances in any samples collected from Block 2592, Lot 35; Block 2598, Lot 62; Block 2591, Lot 46; Block 2590, Lot 51; or Block 2597, Lot 1 (Tables 4-5A through 4-5F and Figures 4-5 and 4-6). BTEX compounds exceeded individual Commercial Use SCOs in only two soil borings (SB-43 and SB-44) at Block 2598, Lot 1. These two borings were advanced within the footprint of former gas holders #2 and #1, respectively (Figure 4-6).

In general, there were very few or no exceedances of Unrestricted Use SCOs for SVOCs at most soil boring locations situated at Block 2592, Lot 35; Block 2598, Lot 62; Block 2590, Lot 51; or Block 2597, Lot 1. PAHs were detected at greater concentrations and frequencies above Commercial Use SCOs at Block 2591, Lot 46; and Block 2598, Lot 1. These locations correspond to the areas near the 10,000 gallon fuel oil UST (note - LNAPL was observed in B-7), former MGP pipe racks, and former MGP coal shed at Block 2591, Lot 46, and the areas within near the footprint of the three former gas holders at Block 2598, Lot 1 (where coal tar was observed in SB-43 and SB-44). Coal tar was also observed in bedrock well BW-01 which is situated to the north at adjacent Block 2598.

SVOCs which exceeded Commercial Use SCOs (Table 4-2B) were generally PAHs including: 3&4-methylphenol (max. 1,100 mg/kg), acenaphthene (max. 1,300 mg/kg), acenaphthylene (max. 9,900 mg/kg), anthracene (max. 3,400 mg/kg), benzo(a)anthracene (max. 2,500 mg/kg), benzo(b)fluoranthene (max. 2,600 mg/kg), benzo(a)pyrene (max. 1,200 mg/kg), benzo(k)fluoranthene (max. 830 mg/kg), chrysene (max. 2,000 mg/kg), dibenz(a,h)anthracene (max. 140 mg/kg), dibenzofuran (max. 700 mg/kg), fluoranthene (max. 7,800 mg/kg), fluorene (max. 4,000 mg/kg), indeno(1,2,3-cd)pyrene (max. 510 mg/kg), naphthalene (max. 74,000 mg/kg), phenanthrene (max. 12,000 mg/kg), and pyrene (6,700 mg/kg). The maximum detected PAH concentrations and greatest frequency of exceedances occurred in SB-43 and/or SB-44 where coal tar was observed at depths between 5 and 20 feet bgs and were located within the footprint of former gas holders #1 and #2 at Block 2598, Lot 1.

There were few exceedances of commercial use criteria for metals. Metals concentrations exceeding commercial use criteria included: arsenic (max. 32.7 mg/kg in SB-38 7.8-8.5'); barium (max. 720 mg/kg in SB-33 3.5-4'); copper (max. 425 mg/kg in MW-05 4.5-6'); lead (max. 1,330 mg/kg in SB-33-23 3.5-4.); and mercury (max. 4.2 mg/kg in SB-07 3-4').

4.3 RI Forensic Analysis

To assess the potential sources of PAH contamination and fuel-related compounds present at the former MGP operational areas, a total of 16 soil samples and one LNAPL sample were sent to META Environmental for forensic analysis. Hydrocarbon fingerprints and extended PAH analyses/diagnostic ratios, as well as site history and observations made during the RI fieldwork, were evaluated as part of the forensics characterization. The complete META Environmental Forensic Analysis Reports are provided in Appendix L. META reported that the majority of samples were classified as a mixture of pyrogenic and petrogenic materials. Some samples were tentatively identified as generally tar and tar mixtures from a coal carbonization (CC) or carbureted water gas (CWG) manufacturing process, and mixtures of fuel and weathered fuel products determined to be present based upon GC/MS and GC/FID chromatograms.

The 16 soil samples were collected from former MGP operational areas and were biased at locations and depths where there was visual and/or field screening evidence including elevated PID readings, visual observations of chemical impact such as sheens, blebs, presence of coal tar DNAPL, and/or odors characteristic of former MGP operations or petroleum constituents. The LNAPL sample was collected from piezometer B-7 situated on Block 2591, Lot 46 in the immediate vicinity of the 10,000 gallon fuel oil UST. These samples were analyzed for hydrocarbon fingerprints and an expanded list of monocyclic aromatic hydrocarbons (MAHs) and PAHs. Results are provided in Appendix L and summarized below by Block and Lot property.

Block 2592, Lot 35

One soil sample was collected at MW-03 (6-7') which contained LNAPL and MW-03 is situated adjacent to the former anthracite coal storage area. META reported that LNAPL in the soil sample was classified as a mixture of No. 4/5/6 fuel oils.

Block 2591, Lot 46

Four soil samples were collected at locations on this property including SB-02 (4.7-5.3'), SB-38 (7.8-8.5'), SB-39 (5-5.5'), and MW-01 (11-12'). One LNAPL sample was collected from piezometer B-7 adjacent to the 10,000 gallon fuel oil UST. SB-02 was situated adjacent to the 10,000 gallon fuel oil UST; SB-38 and SB-39 were situated within the footprint of a former coal storage area and nearby a former MGP gasoline UST; and MW-01 is near the former pipe racks associated with the former MGP. META reported the sample from SB-02 was No. 6 fuel oil or severely weathered crude oil; SB-38 had similarities with CWG tars; SB-39 had similarities with both No. 6 and crude oil; MW-01 had similarities with CC and CWG tars; and B-7 contained a mixture of petroleum products and coal tars.

Block 2598, Lot 1

Nine samples were collected at locations on this property including SB-07 (adjacent to former water gas plant -13.3-14.2'), SB-16 (adjacent to former governor house - 5-6.5' and 17.5-18'), SB-17 (adjacent to tar well #2 - 5.5-6'), SB-43 (gas holder #2 -10-12'), SB-44 (gas holder #1 - 15-20'), MW-05 (adjacent to gas holder #2 - 4.5-5' and 20.5-21'), and MW-06 (downgradient of gas holder #1 - 10.5-11'). META reported the sample from SB-07 had similarities with CC and coal tar; SB-16 had similarities with CWG tars; SB-17 had similarities with CC and CWG tars; SB-43 was coal tar/creosote; SB-44 was coal tar/creosote; MW-05 had similarities with CWG tars; and MW-06 had similarities with CC and CWG tars.

Block 2597, Lot 1

Two samples were collected at SB-20 (near former retort house - 5-5.5') and SB-21 (near former tar tanks - 21-22'). META reported the sample from SB-20 had similarities with gas oil and fuel oils; and the sample from SB-21 had similarities with CWG tars.

4.4 Groundwater Analytical Results

A summary of the detected analytical results from overburden and bedrock groundwater samples collected from monitoring wells is presented in Tables 4-6 and 4-7, respectively. Results

exceeding TOGS No. 1.1.1 Class GA groundwater criteria are circled. Tables 4-8A, 4-8B, and 4-8C provide statistical summaries of the detected parameters in overburden and bedrock for the RI groundwater samples as follows: the number of detections; the minimum, maximum and average values; and the location of the maximum value. The complete validated analytical results from the RI groundwater samples are presented in the DUSR in Appendix K. Data summary tables, Form I and Form Ie (TICs) are provided in the DUSR and include the reporting limit for each non-detected compound.

Overburden

Groundwater contamination in the overburden can be characterized as generally spread across the site area and is most concentrated in the vicinity of Block 2598, Lot 46 and to a lesser extent, near Block 2598, Lot 1. The locations of detected results for VOCs, SVOCs, and total cyanide that exceeded their respective criteria during the August 2015 sampling event are shown on Figure 4-8. There were no VOCs, SVOCs, or total cyanide detected above criteria in upgradient monitoring well MW-02; monitoring wells MW-04, MWMF-02, and MWMF-07D situated around the perimeter of Block 2598, Lot 46, and MW-07 (URS) situated at Block 2597, Lot 1.

Detected VOCs exceeding criteria included chlorinated VOCs (PCE and its degradation products: TCE, cis- and trans-1,2-dichloroethene; 1,1-dichloroethane; and vinyl chloride; 1,2-dichloroethane, methylene chloride, chloroform, chloroethane), BTEX compounds (total BTEX maximum 6,750 µg/L in MWMF-08), MTBE (maximum 25 µg/L in MWMF-01), and isopropylbenzene (maximum 130 µg/L in MWMF-08). MTBE was detected above criteria in MWMF-01 and MWMF-05. MTBE is a gasoline additive and ubiquitous in urban areas. CVOCs were detected at the greatest frequencies in MWMF-04, nearest to the operating dry cleaners operating across East 139th Street; however, total CVOCs were detected at the highest concentrations (max. total CVOCs) in MW-03 at 6,500 µg/L. PCE and degradation products were detected at their greatest concentrations in MWMF-04. Other CVOCs included 1,1,2,2-tetrachloroethane (max. 22 µg/L in MWMF-01) and 1,1,2-trichloroethane (max. 120 µg/L in MWMF-04). CVOCs are associated with dry cleaning facilities and are not MGP related.

Detected SVOCs included 1,1'-biphenyl (max. 32 µg/L in MW-05), methylphenol isomers (max. 5.8 µg/L in MW-05), 2-nitrophenol (max. 3.5 µg/L in MWMF-04), 2-chlorophenol, MGP-related contaminants naphthalene (max. 5,700 µg/L in MW-05), acenaphthene (max. 67 µg/L in MW-01), benzo(a)anthracene (max. 0.97 µg/L in MW-03), benzo(b)fluoranthene (max. 0.90 µg/L in MW-03), chrysene (max. 0.92 µg/L in MW-05), and phenol (max. 6.9 µg/L in MWMF-08). The greatest concentrations of SVOCs, naphthalene in particular, were detected in monitoring wells east, north and south of former gas holders #1, #2, #3, around Block 2598, Lot 1, and gas holder #4 around Block 2598, Lot 46.

Total cyanide was detected above the groundwater standard at most locations across the former MGP operational area.

Iron, manganese, magnesium, selenium, and sodium exceeded groundwater SCGs in the majority of the groundwater samples. Additionally, lead exceeded the groundwater SCG in MW-03, MW-04, MW-05, and MW-06. Other metals that exceeded criteria were arsenic, barium, beryllium, cadmium, chromium, copper, nickel, thallium, and zinc.

General Overburden Water Quality Parameters

As part of the 295 Locust Avenue RI (URS, 2012), groundwater samples from MWMF-05, MWRX-01, and MWRX-02 were analyzed for total dissolved solids (TDS) and chloride to evaluate the possibility of saline groundwater Class GSA or GSB. Chloride concentrations ranged from 97 mg/L in MWRX-01 to 940 mg/L in MWMF-05. TDS concentrations ranged from 610 mg/L in MWMF-05 to 1,100 mg/L in MWRX-01. New York State guidelines for GSA saline groundwater classification are chloride concentrations above 250 mg/L and TDS concentrations above 1,000 mg/L. At least one of these guidelines was exceeded in each groundwater sample (295 Locust Avenue RI report – Appendix A). Based upon these results, groundwater in the overburden monitoring wells sampled is consistent with NYSDEC's definition of GSA groundwater. Reported concentrations of chloride and TDS in all samples were below NYSDEC guidelines for GSB saline water.

Bedrock - August 2015

Groundwater in the bedrock was assessed at four locations (BW-01 through BW-04) around Block 2598, Lot 46. Contamination in the bedrock is more concentrated compared to overburden (Figure 4-9). Relative to the criteria and overburden results, significantly elevated levels of VOCs were detected in all four wells. Detected VOCs exceeding criteria included trans- and cis-1,2-dichloroethene; 1,1-dichloroethene; 1,2-dichloroethane, and vinyl chloride; 1,2-dichloroethane, BTEX compounds (total BTEX maximum 75,350 µg/L in BW-03), MTBE (maximum 23 µg/L in BW-02), and isopropylbenzene (maximum 53 µg/L in BW-03), styrene (410 µg/L in BW-04) , and acetone (480 µg/L in BW-02). Benzene concentrations ranged from 3,100 µg/L in BW-04 to 72,000 µg/L in BW-03. The highest concentrations of CVOCs were detected in BW-02 nearest to the dry cleaners operating across East 139th Street.

Detected SVOCs exceeding criteria included 1,1'-biphenyl (max. 33 µg/L in BW-01), methylphenol isomers (max. 1,960 µg/L in BW-02), and PAHs naphthalene (max. 6,100 µg/L in BW-01), acenaphthene (max. 31 µg/L in BW-04), and phenol (max. 540 µg/L in BW-02). The greatest concentrations of SVOCs, naphthalene in particular, were detected in monitoring wells BW-01 and BW-02.

Total cyanide detections exceeded the groundwater criterion in BW-01, BW-02, and BW-03 with concentrations ranging from 218 µg/L in BW-01 to 1,880 µg/L in BW-02.

Iron, lead, manganese, magnesium, selenium, thallium, nickel, and sodium exceeded groundwater SCGs in bedrock wells. Not all inorganic analytes exceeded criteria at all bedrock well locations.

Bedrock – March 2012

Detected VOCs exceeding criteria included cis-1,2-dichloroethene and vinyl chloride, BTEX compounds (total BTEX maximum 48,100 µg/L in BW-03), and styrene (4,300 µg/L in BW-01) (Figure 4-9). Benzene concentrations ranged from 11,000 µg/L in BW-04 to 44,000 µg/L in BW-03. The highest concentrations of CVOCs were detected in BW-02 nearest to the dry cleaners operating across East 139th Street.

Detected SVOCs included 1,1'-biphenyl (max. 28 µg/L in BW-01), methylphenol isomers (max. 3,700 µg/L in BW-02), naphthalene (max. 7,300 µg/L in BW-02), and phenol (max. 1,200 µg/L in BW-02). The greatest concentrations of SVOCs, naphthalene in particular, were detected in monitoring wells BW-01 and BW-02.

Total cyanide detections exceeded the groundwater criterion in BW-01, BW-02, and BW-03 at concentrations ranging from 221 µg/L in BW-01 to 7,160 µg/L in BW-02.

Iron, manganese, magnesium, selenium, chromium, and sodium exceeded groundwater SCGs in bedrock wells. Not all inorganic analytes exceeded criteria at all bedrock well locations.

4.5 Summary of Nature and Extent of Contamination

4.5.1 Subsurface Soil

Selected NAPL-stained and NAPL saturated soil samples were identified as fuel oils, tars similar to CC and CWG, and coal tar/creosote. Soil samples from Block 2598, Lot 1 within the footprint of former gas holders #1 and #2 contained the most concentrated and majority of the tars observed. However, CC and CWG tars were also present at Block 2591, Lot 46, and Block 2597, Lot 1 (near the former MGP tar tanks), albeit at much lower frequencies and concentrations. Fuels and fuel oils were also identified via direct observations and through forensic analyses throughout the site area indicating multiple point sources contributed to the observed distribution of these contaminants. Many of the samples contained a mixture of both pyrogenic and petrogenic materials.

There were numerous exceedances in RI soil samples of VOCs for Unrestricted Use SCOs in the site area. VOC detections included BTEX compounds, with the highest concentrations generally reported within and near the former MGP gas holders #1 and #2 on Block 2598, Lot 1 at depths between 5 and 20 feet bgs. Lower concentrations were generally reported at various depths across the site area in and around former MGP structures and petroleum impacted areas at Blocks 2592, Lot 35, Block 2591, Lot 46, and Block 2597, Lot 1. There is a strong correlation between the highest reported BTEX concentrations and boring locations where NAPL-coated soil samples and coal tar were observed. There were numerous exceedances of Unrestricted Use SCOs in RI soil samples for SVOCs, especially PAHs, as compared to unrestricted use criteria across the site area

within and near the former MGP structures and petroleum UST areas at various depths. Metals exceedances as compared to unrestricted criteria were found across the entire site various depths.

There were no VOC exceedances compared to commercial use criteria in any samples collected from Block 2592, Lot 35; Block 2598, Lot 62; Block 2591, Lot 46; Block 2590, Lot 51; or Block 2597, Lot 1. BTEX compounds exceeded individual criteria in only two soil borings (SB-43 and SB-44) both at Block 2598, Lot 1, in the footprint of former gas holders #2 and #1, respectively. SVOCs which exceeded commercial use criteria (Table 4-2B) were generally PAHs. All maximum PAH exceedances occurred in SB-43 or SB-44. In general, there were very few or no exceedances of SVOCs at most soil boring locations situated at Block 2592, Lot 35; Block 2598, Lot 62; Block 2590, Lot 51; or Block 2597, Lot 1. PAHs were detected at greater concentrations and frequencies above Commercial Use SCOs at Block 2591, Lot 46; and Block 2598, Lot 1. These locations correspond to the areas near the 10,000 gallon fuel oil UST where LNAPL was observed in B-7, former MGP pipe racks, and former MGP coal shed at Block 2591, Lot 46, and the areas within near the footprint of the three former gas holders at Block 2598, Lot 1 where coal tar was observed in SB-43 and SB-44. Coal tar was also observed in bedrock well BW-01 which is situated to the north at adjacent Block 2598. There were few exceedances of Commercial Use SCOs for metals compared to Unrestricted Use SCO exceedances for metals.

4.5.2 Groundwater

Groundwater quality in the overburden is generally degraded and can be characterized as generally spread across the site, originating from multiple point sources as well from the urban fill that comprises the overburden. Specific source areas include: Block 2592, Lot 35 (i.e., LNAPL in MW-03), Block 2591, Lot 46 (i.e., heating oil UST and former MGP operations), Block 2598, Lot 46 (i.e., former petroleum USTs and MGP operations), Block 2598, Lot 1 (dry cleaning and former MGP operations), and Block 2597, Lot 1 (i.e., MOSF and former MGP operations) and is most concentrated in the vicinity of Block 2598, Lot 46 and near Block 2598, Lot 1. There were no VOCs, SVOCs, or total cyanide detected above Class GA standards in upgradient monitoring well MW-02; monitoring wells MW-04, MWMF-02, and MWMF-07D situated around the perimeter of Block 2598, Lot 46, and MW-07 (URS) situated at Block 2597, Lot 1. Detected VOCs exceeding

Class GA standards included: CVOCs (PCE and its degradation products: TCE, cis- and trans-1,2-dichloroethene; 1,1-dichloroethane; and vinyl chloride); 1,2-dichloroethane, methylene chloride, chloroform, and chloroethane; BTEX compounds; MTBE; and isopropylbenzene. MTBE was detected above Class GA standards in MWMF-01 and MWMF-05, indicating petroleum impacts from non-MGP sources. CVOCs were detected at the greatest frequencies in MWMF-04, nearest to the operating dry cleaners operating across East 139th Street.

Detected SVOCs in the overburden groundwater included 1,1'-biphenyl, methylphenol isomers, 2-nitrophenol, 2-chlorophenol, naphthalene, acenaphthene, benzo(a)anthracene, benzo(b)-fluoranthene, chrysene, and phenol. The greatest concentrations of SVOCs, naphthalene in particular, were detected in monitoring wells east, north and south of former gas holders #1, #2, #3, around Block 2598, Lot 1, and gas holder #4 around Block 2598, Lot 46. Total cyanide was detected above the groundwater standard at most locations across the former MGP operational area. Iron, manganese, magnesium, selenium, and sodium exceeded groundwater SCGs in the majority of the overburden groundwater samples. Additionally, lead exceeded the Class GA groundwater standard in MW-03, MW-04, MW-05, and MW-06. Other metals that exceeded Class GA standards were arsenic, barium, beryllium, cadmium, chromium, copper, nickel, thallium, and zinc.

Groundwater in the bedrock aquifer was assessed via four bedrock monitoring wells at Block 2598, Lot 46. Contamination in the bedrock is significantly more concentrated compared to overburden. Detected VOCs exceeding criteria included trans- and cis-1,2-dichloroethene; 1,1-dichloroethene; 1,2-dichloroethane, and vinyl chloride; 1,2-dichloroethane, BTEX compounds, MTBE, and isopropylbenzene. Benzene concentrations ranged from 3,100 µg/L in BW-04 to 72,000 µg/L in BW-03. The highest concentrations of CVOCs were detected in BW-02 nearest to the dry cleaners operating across East 139th Street. Detected SVOCs exceeding criteria included 1,1'-biphenyl methylphenol isomers, naphthalene, acenaphthene, and phenol. The greatest concentrations of SVOCs, naphthalene in particular, were detected in monitoring wells BW-01 and BW-02. Total cyanide detections exceeded the groundwater criterion in BW-01, BW-02, and BW-03.

5.0 CONTAMINANT FATE AND TRANSPORT

This section describes fate and transport processes that may influence the behavior of the contaminants detected across the site area. The discussion emphasizes the processes that are essential in evaluating potential exposure of human and environmental receptors to the contaminants detected at concentrations above the SCGs. This section presents a general description of fate and transport processes in soil, soil vapor and groundwater, and an identification and description of properties of contaminants detected at the site.

Contaminants identified above SCGs in the soil collected as part of this RI and the 295 Locust included VOCs, SVOCs, pesticides and metals. Contaminants detected in soil vapor samples collected as part of the 295 Locust Avenue RI are VOCs. Contaminants detected above SCGs in groundwater include VOCs, SVOCs, metals, and cyanide.

5.1 General Description of Fate and Transport Mechanisms

This section provides general descriptions of the fate and transport processes that can occur in the environment in which samples were collected as part of the RI. In addition, the site characteristics that can affect these processes are discussed.

5.1.1 Transport Processes

Contaminant transport in the subsurface can occur as movement within the vadose zone (i.e., above the water table), saturated zone (i.e., below the water table), and/or fractures in the underlying bedrock; migration of dissolved contaminants in groundwater; and/or as migration of volatilized contaminants in the soil vapor. The primary transport mechanisms are advection, dispersion, and partitioning of mass.

- Advection occurs when the contaminant is carried along as part of the groundwater or soil vapor flow.
- Dispersion refers to the spreading of the migrating contaminants with or without actual groundwater movement due to diffusion and mechanical mixing created by

non-uniformities in the flow field. Dispersion results in the widening of the affected area.

- Mass partitioning is a process in which contaminants move between different environmental media in response to concentration gradients. For example, contaminants dissolved in groundwater may sorb (i.e., attach) onto soil particles or volatilize into the soil vapor. The process may involve mass transfer in any direction between any of the environmental media. The net result of mass partitioning is the distribution of the contaminant between all phases that remain in physical contact. Typically, mass partitioning acts to inhibit the migration of contaminants in groundwater or soil vapor by immobilizing a part of the mass in the soil matrix (retardation). However, the process may be reversed, resulting in the slow release of the sorbed contamination into the groundwater or soil vapor.

In the vadose zone, the total mass of a contaminant is partitioned between the dissolved phase (soil moisture), the gas phase (soil vapor), and the solid phase (soil matrix). In the saturated zone, the soil vapor phase is absent and the partitioning occurs only between the soil matrix and groundwater. Under equilibrium conditions, each phase contains a fraction of the total contaminant mass present in the system (i.e., total of both phases equal 100 percent of the contaminant mass present). The relative mass fractions are determined by the properties of each contaminant and by the nature of the soil matrix. Equilibrium conditions may be disturbed by phenomena such as migration of contaminated groundwater or soil vapor into an area, or removal of contaminant mass from one of the media through degradation processes or gravity flow. The changes in concentration gradients created by these circumstances result in mass transfer between the media until equilibrium is re-established.

The contaminant mass sorbed onto the soil matrix is essentially immobile, with the exception of contaminants in the topmost soil layer (if present), which can be transported by processes (such as wind or surface runoff) capable of moving soil particles. Sorbed contaminants generally act as a source for the dissolved and vapor phases.

Transport of contaminants dissolved in the soil moisture in the unsaturated zone is generally limited as a result of very low flow rates in the absence of full saturation. The only significant

mechanisms may be driven by water level fluctuations and gravity-driven downward flow during wet-weather periods. Such vertical transport of contaminants acts as a source for the saturated zone below.

The contaminant mass contained within groundwater in the saturated zone is more mobile. The primary transport mechanisms for contaminants dissolved in groundwater are advection and dispersion. The magnitude of dispersion is site specific and is generally difficult to measure. Processes similar to those that occur for soil vapor can enable dissolved contaminants to reach a previously uncontaminated area and enter other environmental media.

Contaminants migrating with soil vapor or groundwater constantly interact with the soil matrix. The driving forces behind this process are created by concentration gradients between different phases, and the properties of the contaminants and the soil matrix. Contaminant mass may either sorb from the mobile soil vapor or groundwater onto the soil particles or it may undergo a reverse process of desorption.

In the case of sorption, contaminant mass is transferred from the mobile medium into the immobile soil medium. This phenomenon tends to retard contaminant migration, and is consequently referred to as retardation. The magnitude of the retardation depends on the properties of each contaminant and the soil matrix. The key indicator parameter for the retardation properties of the soil is the organic carbon content. Soils with high organic carbon content sorb dissolved contaminants more readily and create a more significant retardation effect than soils with limited, or no organic carbon content. Desorption is the process of transferring contaminants from the soil matrix into the groundwater or Soil Vapor. As a result, soils containing contaminant mass may act as a source if exposed to the less-contaminated soil vapor or groundwater. Desorption from soil into the soil vapor or groundwater is increasingly inhibited by increasing content of organic carbon in the soil.

5.1.2 Mass Destruction Processes

Most contaminant mass contained within the saturated formation is not exposed to sunlight or the atmosphere. Therefore, abiotic mass destruction processes that rely on the presence of air or exposure to sunlight (such as hydrolysis and photolysis) have little impact within the subsurface and will not be discussed. The most significant mass destruction process that takes place in subsurface environments is microbial degradation. The microbial degradation processes for organic contaminants

that operate in groundwater systems are biological oxidation, reductive dechlorination, and cometabolic degradation.

During degradation, organic compounds may be transformed into daughter forms, which may be recalcitrant or further degradable. Daughter compounds can be either more or less toxic than the parent compounds. If a contaminant degrades into a sequence of degradable daughter compounds, it is ultimately fully metabolized into such compounds as carbon dioxide, methane, water, and chloride (when chlorinated hydrocarbons are degraded).

5.2 Fate and Transport of Site Contaminants

In the past, the site area was used as part of a production facility for manufactured coal gas and carbureted water gas. In addition, historic uses of the various parcels include a motor freight facility, and other commercial operations that utilized USTs to store fuels. A dry cleaning facility is present across within the site area which appears to have contributed PCE and its degradation products including trichloroethene, cis- and trans-1,2-dichloroethene, 1,1-dichloroethane, 1,1-dichloroethene, chloroethane and vinyl chloride to the environment.

This section discusses the possible fate and transport of the contaminants identified at the site. The properties of these contaminants that will impact their fate and transport are also discussed.

5.2.1 Contaminant Properties

As described in Sections 2.0 and 4.0, several groups of compounds were detected at concentrations above SCGs: VOCs (BTEX, MTBE, acetone, styrene, isopropylbenzene, and chlorinated hydrocarbons), SVOCs (PAHs, biphenyl, dibenzofurans, and phenolics), pesticides, cyanide, and metals. General properties of these groups and NAPL are discussed below.

5.2.1.1 VOCs

VOCs detected at levels above SCGs in soil and groundwater and in soil vapor are indicated on Table 5-1. VOCs readily volatilize into the atmosphere or soil vapor. At the surface, these compounds may decay and/or volatilize upon exposure to sunlight and to the atmosphere. Dissolved

contaminants are transported by advection and dispersion in groundwater. The same processes of advection and dispersion are responsible for the migration of these compounds in the atmosphere or the soil.

BTEX, styrene, and isopropylbenzene were detected in soil and groundwater above SCGs, and in soil vapor. These compounds are volatile and moderately soluble in water. They are readily biodegraded under aerobic conditions and also degrade under anaerobic conditions, albeit at slower rates. They have low to moderate organic carbon-to-water partitioning coefficients and do not readily partition into the soil, making them relatively mobile in the environment.

Acetone, 2-butanone, 2-hexanone and 4-methyl-pentanone are ketones, which are also common laboratory contaminants, and were detected in soil and groundwater above SCGs and/or in soil vapor samples. Ketones are volatile and highly soluble in water. They are characterized by very low organic carbon-to-water partitioning coefficients. The degree to which they sorb into the soil matrix is insignificant and their mobility in the environment is very high. The biodegradability of ketones is generally relatively high and occurs under aerobic conditions.

Carbon disulfide, also a common laboratory contaminant, was detected in groundwater above SCGs and soil vapor samples. It is slightly soluble in water, is relatively mobile in water, and is not expected to sorb well to soil. Carbon disulfide may degrade to a small extent under aerobic conditions.

Pentane isomers (2,2,4-trimethylpentane, 2,3-dimethylpentane, indane, isopentane, 2-methylpentane) were detected in soil vapor samples. These aliphatics are insoluble in water, have high mobility and are not expected to sorb to soil particles. Volatilization is the primary transport process for these aliphatics. They are biodegradable under aerobic conditions.

MTBE was detected in groundwater above SCGs and soil vapor samples. MTBE has a low organic carbon-to-water partitioning coefficient and is relatively soluble in water. The degree to which it sorbs into the soil matrix is insignificant and its mobility in the environment is very high. MTBE biodegrades under aerobic conditions and, to a lesser extent, under anaerobic conditions. MTBE is a known additive in gasoline and is not associated with residual byproducts from MGP sites.

PCE and/or its degradation products (TCE, cis and trans-1,2-dichloroethene, 1,1-dichloroethane, 1,1-dichloroethene, 1,2-dichloroethane, chloroethane, vinyl chloride) were detected in soil and groundwater above SCGs, and in soil vapor. Additional chlorinated VOCs were detected in groundwater above SCGs or soil vapor samples (1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, methylene chloride, 1,2-dichloropropane, chloromethane). These compounds have low to moderate organic carbon-to-water partitioning coefficients and do not readily partition into the soil, making them relatively mobile in the environment. Chlorinated VOCs undergo reductive dechlorination under anaerobic conditions.

5.2.1.2 SVOCs

PAHs were detected in soil and groundwater at concentrations above SCGs; however, only acenaphthene and naphthalene were detected in bedrock groundwater at concentrations exceeding SCGs. Generally, PAHs are characterized by low volatility, low solubility in water, and a high organic carbon-to-water partitioning coefficient. As a result, they are relatively immobile, and typically sorb onto the soil matrix. Potential for leaching from soil to groundwater decreases as the compound's molecular weight increases, and such leaching is unlikely even for low molecular weight compounds. As a result, the primary transport mechanism for PAHs is transport mechanically by wind and erosion/particle entrainment. PAHs are hydrocarbons containing two or more fused benzene rings. Their biodegradation rates are relatively low. PAHs with several rings degrade less readily than PAHs with fewer rings.

Phenolic compounds including phenol, 2, 3 & 4-methylphenol (cresols), 2-chlorophenol, 2-nitrophenol and 2,4-dimethylphenol were detected at concentrations above SCGs in soil and/or groundwater. Phenolic compounds are relatively non-volatile, and their solubility in water is high. They do not readily sorb into the soil matrix due to their low organic carbon-to-water partitioning coefficients. As a result, they are highly mobile in the environment. They are relatively biodegradable in anaerobic conditions.

Dibenzofuran concentrations above SCGs were detected in the soil. Dibenzofuran is characterized by low volatility, low solubility in water, and a high organic carbon-to-water partitioning coefficient. As a result, it is relatively immobile, and typically associates with the soil matrix.

Leaching is an unlikely pathway for dibenzofuran. It has a tendency to sorb to soil particles and consequently may be transported mechanically by wind and erosion/particle entrainment. Dibenzofuran is relatively non-biodegradable.

Concentrations of 1,1-biphenyl were detected above SCGs in the groundwater samples. 1,1-biphenyl is relatively non-volatile, and has a relatively high organic carbon-to-water partitioning coefficient. As a result, 1,1-biphenyl has limited mobility in the environment. 1,1-biphenyl is biodegradable.

5.2.1.3 Pesticides

Pesticide (i.e., 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, beta-BHC, dieldrin) concentrations above SCGs were detected in soil samples collected at the 295 Locust Avenue site (Appendix A). Based on the proximity to the 295 Locust Avenue site, it is reasonable to assume these pesticides may also be found at other properties within the former MGP site. 4,4'-DDE is a degradation product of 4,4'-DDT. Pesticides are insoluble in water. They are characterized by low solubility in water and low volatility into air/soil vapor. Pesticides persist under aerobic conditions, but may degrade slightly under anaerobic conditions. They readily sorb onto soil due to a high organic carbon-to-water partitioning coefficient. As a result, pesticides are quite immobile in the environment, and are typically confined to the soil matrix. Pesticides are typically not contaminants of concern at MGP sites.

5.2.1.4 Metals and Cyanide

Metals concentrations above SCGs were detected in soil and/or groundwater samples. These metals include aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, sodium, thallium, vanadium, and zinc. Metals are generally persistent. They do not volatilize or degrade. The ultimate preference of metals towards soil sorption or dissolution in water depends mostly on the acidity or alkalinity of the system.

Cyanide is typically found as cyanide salts and ferro- and ferri-cyanide complexes. Cyanide salts consist of a combination of the cyanide anion (CN⁻) with a cation such as sodium. The transport properties of the cyanide salts depend to a certain degree on the cation associated with the cyanide anion. Typically, the cyanide anion is relatively soluble and thus mobile in groundwater. Under acidic

conditions (i.e., high hydrogen ion concentrations), the cation may be a hydrogen ion, which results in the formation of volatile hydrogen cyanide (HCN^\ominus), and HCN^\ominus can migrate as a gas. Cyanide, as an anion, is readily naturally degraded biologically by soil bacteria under aerobic conditions. In contrast, ferricyanide and ferrocyanide are relatively immobile and recalcitrant. In these compounds, cyanide does not exist as an anion, but is rather directly attached, via strong coordinate bonds, to the iron atom. As relatively large nonpolar inorganic compounds, they are not highly soluble, and therefore, these complexes tend to persist in the environment. Under varying pH conditions, cyanide complexes can become free cyanide.

5.2.1.5 NAPL

Both LNAPL and DNAPL were observed while drilling and/or gauging groundwater levels in the groundwater monitoring wells during the RI (LNAPL in MW-03, MW-05, and B-7); and DNAPL in BW-01. As indicated on Figure 3-6, during soil boring activities, NAPL-coated soil was observed at various depths within and near the former MGP gas holders in SB-42, SB-43, and SB-44. Staining, MGP odors, blebs, and sheens were observed in MW-01, MW-05, MW-06, SB-05, SB-07, SB-08, SB-11, SB-13, SB-15, SB-16, SB-17, SB-21, SB-32, SB-33, SB-38, SB-42, SB-43, SB-44, BW-01, BW-02, and BW-03.

Coal tar DNAPL is a mixture of many contaminants. Because of its form, it may display different characteristics than its constituents. DNAPL is generally not degradable in the subsurface. The high concentrations of hydrocarbons contained in DNAPL are lethal to microorganisms. However, its constituents may dissolve in water and volatilize, becoming mobile in the environment, and biodegrade. Therefore, DNAPLs residing in the subsurface generally undergo gradual transformation, as volatile and soluble compounds are gradually removed.

NAPL migration depends mostly on its physical properties. LNAPLs typically have a specific gravity below 1 and “float” on the surface of the groundwater table and migrate in response to hydraulic gradients. DNAPLs have a specific gravity above 1 and initially migrate downwards within the aquifer, until they encounter low permeability strata (e.g., clay). At that point, they could migrate under the influence of the slope of the low permeability strata and/or hydraulic gradients. Its mobility is highly variable depending on its viscosity and the nature of the soil or strata in which it is found.

Selected NAPL-stained soil samples collected from the soil borings were sent to META for environmental forensic analyses, which included hydrocarbon fingerprint and extended MAH and PAH analyses. The majority of the samples were classified as a mixture of pyrogenic and petrogenic materials. The tentative source identifications were tars, likely from a coal carbonization (CC) or carbureted water gas (CWG) manufacturing processes, coal tar source materials, and fuel products (e.g., fuel oils, gasoline, kerosene, diesel) determined to be present based on the GC/MS and GC/FID chromatograms.

5.2.2 Summary

As described in Section 4.0, several contaminants were detected at the site above SCGs. VOCs are volatile and highly to moderately soluble in water. Some VOCs are readily biodegraded under aerobic conditions and also degrade under anaerobic conditions, albeit at much slower rates. They have low to moderate organic carbon-to-water partitioning coefficients and do not readily partition into the soil or sediment, making them relatively mobile in the environment. PAHs and furans are relatively immobile, and their biodegradation rates are relatively low. Phenolic compounds are relatively mobile, and relatively biodegradable in anaerobic conditions. 1,1'-Biphenyl is relatively non-volatile, and its solubility in water is relatively low. Due to its relatively high organic carbon sorption coefficient, it readily sorbs into the soil matrix and therefore is not very mobile in the environment. 1,1'-Biphenyl is relatively biodegradable. Pesticides are non-volatilizing, insoluble and immobile, sorbing onto the soil matrix. Metals are recalcitrant, and their ultimate preference towards soil adsorption (immobile state) or dissolution in water (mobile state) depends mostly on the acidity/alkalinity of the system. Cyanide can exist as complex compounds, salts, or as free cyanide. MGP coal tar NAPL is generally recalcitrant.

5.3 Fate and Transport in the Unsaturated Zone

5.3.1 Migration

The surface of the site area is entirely covered by warehouse buildings and sidewalks. A few trees are present in small soil covered areas within the sidewalks throughout the site area. It appears that there is little to no potential for infiltration or fugitive dust emissions from the site in its current

state. Therefore, contaminants that are sorbed to soil in the unsaturated zone have virtually no ability to migrate off-site via erosional processes.

In general, propagation of contaminants in the unsaturated zone is typically dominated by three processes: migration of dissolved phase contaminants with infiltrating precipitation; migration of volatilized contaminants in the soil vapor; and migration of the sorbed contamination with fugitive dust emissions or surface runoff. Contaminants present as separate-phase liquid within the soil or sorbed to the soil may dissolve as precipitation percolates through the unsaturated zone. This occurs during wet weather periods, when the water content exceeds the field capacity of the soil matrix. The flow is mostly gravity-driven and directed downward. Such downward migration through the unsaturated zone may constitute a source of contamination of the saturated zone below.

VOCs enter the soil vapor from soil and/or groundwater through the process of volatilization. Volatilization of VOCs to the soil vapor in the unsaturated zone is expected to occur beneath the onsite buildings. However, the structural floor slabs of the buildings can be effective barriers preventing VOCs from entering indoor air. Other contaminants present in the unsaturated zone (PAHs, phenols, metals) are not readily volatile. As a result, the migration of non-VOC contaminants through the gas phase is likely to be of little significance.

5.3.2 Degradation

Generally, the occurrence and rates of unsaturated zone biodegradation have to be determined by means of field studies, such as respiration tests. However, vadose zone biodegradation is limited by the amount of moisture present in the soil and transport processes between bacteria and contaminants. Sufficient moisture for active biological growth may not be present at all locations where contamination is elevated.

While some VOCs and CVOCs are subject to biodegradation, some SVOCs detected at the site area are generally relatively non-degradable (PAHs, furans). Phenolic compounds are relatively biodegradable in anaerobic conditions. Metals do not degrade. Overall, it is likely that natural degradation of the non-VOC contaminants detected in the site area will not be significant.

5.3.3 Summary

As the water table in the site area is at a depth of approximately 3 to 6 feet bgs, a portion of the bulk mass of contamination in the overburden already lies in the saturated overburden and the bulk mass of contamination represents a continuing source to groundwater and soil vapor. Continued downward migration of contaminants through infiltration induced migration is not anticipated to be significant since the site area is entirely covered by warehouse buildings, sidewalks, and streets.

Rates of contaminant degradation in the unsaturated zone are expected to be relatively low. While VOCs and, to a lesser extent, some other organic parameters (e.g., phenolics) may degrade, most organic compounds detected in the unsaturated zone in the site area (i.e., PAHs, dibenzofurans) are relatively non-degradable. Metals are recalcitrant.

5.4 Fate and Transport in the Saturated Zone

5.4.1 Migration

Contaminant migration in the saturated zone takes place predominantly by means of the transport of the dissolved-phase contamination in groundwater. The controlling factors are the direction of the groundwater flow within the aquifer, the hydraulic gradient, the hydraulic conductivity of the aquifer material, and the chemical composition of the soil matrix. VOCs may also migrate from the groundwater/soil to the soil vapor of the unsaturated zone.

As shown on Figure 3-7 and 3-8, groundwater in the overburden generally flows in a radial pattern away from Block 2598, Lot 46. As discussed in Section 3.6, the hydraulic gradients in the vicinity of the investigation area are relatively flat and shallow in the northern and western portions of the site area. Horizontal hydraulic gradients are steeper during low tide especially east of Locust Avenue. Vertical hydraulic gradients are variable and are generally flat to slightly upward or downward.

Groundwater can also move within bedrock via discrete fractures (secondary porosity). The cross sectional area of the fractures is generally very low in fracture systems, and were observed to be

very small in rock cores from BW-01 through BW-04. Secondary porosities on the order of a fraction of a percent are not uncommon, but could be larger in fault zones.

VOCs, SVOCs, metals, phenolics, and cyanide were detected above SCGs in overburden and bedrock groundwater at the site. While there are multiple potential sources for these contaminants (i.e., MGP-related, petroleum-related, dry cleaner-related), some portion of the contamination, particularly the VOCs (a portion of the BTEX), SVOCs (primarily PAHs), and tars are likely MGP-related. Groundwater contamination in the overburden can be characterized as spread across the site area and is most concentrated along the sidegradient and downgradient edges of Block 2598 Lot 46, and Block 2598, Lot 1. MGP-related contamination appears to be mixed with other sources of BTEX and fuel-related contamination associated with historic uses at the various parcels and USTs, and PCE and other CVOCs from past dry cleaning operations.

5.4.2 Degradation

VOCs may degrade in both aerobic and anaerobic processes, and phenolic compounds may degrade in anaerobic environments. The predominant mechanism for the degradation of chlorinated hydrocarbons, especially PCE, is reductive dechlorination. Significant degradation of the chlorinated solvents is marked by a shift in the relative concentrations of various compounds. As the degradation progresses, the original compound released into the environment breaks down into the daughter product, where successively more chloride atoms are removed from the compound molecule and replaced with hydrogen. In this case, PCE would shift to TCE, then to DCE, then to VC, and finally to ethene. Based upon measurements of oxidation-reduction potential (Eh) during groundwater monitoring well purging, high negative levels of Eh were found to be present, indicating that the aquifer is conducive for reductive dechlorination. (Monitoring Well Purge Logs are presented in Appendix J).

SVOCs (particularly PAHs) and metals are generally recalcitrant; therefore, degradation of these contaminants in the site area is expected to be minimal or insignificant. Cyanide salts can be aerobically biodegradable and cyanide complexes are not readily volatile. HCN^- as an anion can migrate as a gas.

5.4.3 Migration Summary

Migration in the saturated zone takes place predominantly by means of the transport of the dissolved-phase contamination in groundwater. In the site area, the overburden layer is predominantly fill over an alluvial sand unit with a mean hydraulic conductivity of 8.4×10^{-4} cm/sec. Groundwater flow in the overburden is somewhat radial.

VOCs, SVOCs, metals, phenolics, and cyanide were detected above SCGs in overburden and bedrock groundwater, however, bedrock was more contaminated. VOCs may degrade in both aerobic and anaerobic processes, and phenolic compounds may degrade in anaerobic environments. PCE appears to be degrading in the site area. SVOCs (particularly PAHs), and metals are generally recalcitrant; therefore, degradation of these contaminants is expected to be minimal. PAHs were detected at the greatest frequencies and highest concentrations in areas of NAPL-coated soil. There appears to be a correlation between the highest reported BTEX concentrations in soil and boring locations where NAPL-coated soil samples were observed. Cyanide salts can be aerobically biodegradable and cyanide complexes are not readily volatile. HCN^- as an anion can migrate as a gas.

In the past, the site area was used as part of a production facility for manufactured gas. In addition, historic property uses at the various parcels include a motor freight facility, and other commercial operations that utilized USTs to store fuels. A dry cleaning facility is present at Block 2598, Lot 1 which may contribute PCE and its degradation products to the environment. The dissolved phase contaminants are likely to persist. BTEX and hydrocarbons will continue to serve as electron donors for anaerobic bacteria to utilize during reductive dechlorination of CVOCs.

6.0 QUALITATIVE HUMAN HEALTH RISK ASSESSMENT AND FISH AND WILDLIFE RESOURCES IMPACT ANALYSIS

This section presents the qualitative HHEA and results of the FWRIA for the site area. This qualitative HHEA uses data and information collected during the RI to assess human health exposure in the immediate and surrounding areas. The qualitative HHEA provides an evaluation of potential adverse health effects under current and potential future site conditions that may result from exposure to contaminants attributable to former activities at the site.

6.1 Identification of Chemicals of Potential Concern

Based upon the analytical data obtained as part of this RI and presented in Section 4, the contaminants of potential concern (CPCs) were selected based on the frequency of detection, range of concentrations, and potential for migration, as well as whether the detected analytes exceeded applicable standards, criteria, or guidance values for the media. A “medium of potential concern” is identified as a physical medium (soil, groundwater, soil vapor) in which one or more contaminants were detected at concentrations exceeding their SCGs.

VOCs, SVOCs and metals were found in most subsurface soil samples collected. Soil analytical results were compared to Part 375 unrestricted use and commercial criteria as presented on Table 4-1. Historic property uses that resulted in petroleum-related contamination and as a former MGP facility contributed to VOC and SVOC contamination. Table 6-1 presents a summary of the VOC, SVOC, and metal CPCs for soil.

Several VOCs, SVOCs, metals, and cyanide were detected in groundwater. For groundwater, the SCGs are the Class GA (groundwater) standards and guidance values presented in NYSDEC TOGS 1.1.1, April 2000 (including subsequent revisions). All chemicals detected in groundwater that exceeded SCGs are considered CPCs. Table 6-1 presents a summary of CPCs for groundwater.

Soil vapor was also sampled during the 295 Locust Avenue RI for Block 2598, Lot 46 and found to be contaminated with VOCs. There are no criteria for soil vapor analytical data; however, the NYSDOH Soil Vapor Guidance Decision Matrix 1 and 2 (NYSDOH, 2006 with 2008 updates) were

utilized to evaluate the potential for soil vapor intrusion by reviewing sub-slab vapor concentrations for the VOCs relevant to the Decision Matrices: TCE, carbon tetrachloride, VC, PCE, 1,1,1-trichloroethene, 1,1-dichloroethene, and cis-1,2-dichloroethene. Detected analytical results were sufficiently high for either TCE, vinyl chloride, PCE, and/or cis-1,2-dichloroethene to indicate the highest level of action recommended: mitigate. These compounds are therefore considered CPCs for soil vapor as indicated on Table 6-1.

6.2 Exposure Pathways

An exposure pathway is the manner by which an individual may come in contact with a contaminant. The elements of a completed exposure pathway include: the contaminated environmental media (i.e., soil, water, or soil vapor); the receptor (e.g., construction worker, employee, public) exposed to the contamination; and the routes of exposure or how the contaminant enters the body (i.e., inhalation, ingestion, and/or absorption through the skin). Tables 6-2 and 6-3 present the exposure pathways assessed for the site under current and future land use scenarios, respectively. Direct contact exposure pathways are not complete for warehouse employees on the various properties or the public under current conditions for soil vapor/indoor air, outdoor air, or groundwater. Potential pathways are complete for construction workers during intrusive activities under current conditions for subsurface soil, soil vapor and groundwater. The exposure pathways for all media are potentially complete for future use conditions, if intrusive activities occur in the site area. The following subsections discuss the rationale for identifying completed exposure pathways.

6.2.1 Soil

The properties are used as commercial facilities. There is no surface soil in the site area since the entire surface of the site is covered by warehouse buildings, streets, and/or sidewalks. The limited soil present around trees planted in the sidewalk areas throughout the site area would be imported topsoil material. While subsurface soil is not accessible to the general public because soil in the site area is entirely covered by warehouse buildings and sidewalks, the only potential complete exposure is for construction workers who could come into contact with contaminated soil during intrusive activities. Therefore, subsurface soil is considered a potentially complete exposure pathway under the

current use scenario for construction workers. Under the future use scenario, intrusive activities from possible construction efforts may result in a completed pathway.

6.2.2 Soil Vapor/Indoor Air

There are currently no employees working within the warehouse building on Block 2598, Lot 46, although the building is being renovated and employees are anticipated to be present at some point in the future. During the Phase II ESA at Block 2598, Lot 46, Roux measured indoor air and concluded that the indoor air VOC concentrations were significantly lower than the VOC concentrations in the sub-slab samples, and therefore, the sub-slab VOC concentrations were not impacting indoor air quality. Therefore, there is not a completed pathway for the current use scenario. In the future use scenario, the potential exists for CPCs detected in the soil and soil vapor beneath the building at Block 2598, Lot 46 as well as other nearby buildings on adjacent properties where CPCs were detected, to migrate into the warehouse buildings. In addition, under the current use scenario, construction workers could come into contact with contaminated soil vapor during intrusive activities. Therefore soil vapor is considered a potentially complete exposure pathway under the current use scenario for construction workers.

6.2.3 Outdoor Air

Since the entire site area is covered by warehouse buildings and/or sidewalks, outdoor air is not impacted under current use conditions. The potential exists for the public to be exposed to contaminants from exposed subsurface soil and/or fugitive dust generated during construction activities. A Site Management Plan (SMP) would provide the requirements for controlling volatilization, erosion, and/or fugitive dust during construction activities.

6.2.4 Groundwater

Under the current use scenario, groundwater is not used as a potable water supply (drinking water is supplied to local residents by the City of New York Water Department) or for any other known industrial purposes in the vicinity of the site area. Therefore, it is not a completed exposure pathway under the current use scenario. It is not anticipated that in the future, onsite groundwater

would be used for potable purposes. Construction workers could potentially be exposed to groundwater contaminants during current or future intrusive activities.

6.2.5 Summary

Tables 6-2 and 6-3 present a summary of the potential routes of exposure, the potential receptors, the potential completed pathways, and the mitigation which would eliminate and/or control the potential pathways. Under current conditions, potential pathways are complete for construction workers during intrusive activities for subsurface soil, soil vapor and groundwater. Potentially completed pathways exist for future use for subsurface soil, soil vapor/indoor air, outdoor air, and groundwater for warehouse employees, construction workers and the public.

6.3 Fish and Wildlife Resources Impact Analysis

This FWRIA is part of the RI that has been prepared for the site. The location of the site is shown on Figure 1-1. A close-up aerial view of the site area is presented as Figure 1-2.

The FWRIA follows the guidance provided by the NYSDEC Division of Fish and Wildlife (NYSDEC 1994). The FWRIA is a stepwise process that was developed to determine the nature and extent of ecological impacts from hazardous waste sites in New York State. The objective of Step I of the FWRIA process is to identify fish and wildlife resources that exist on and/or adjacent to the site.

6.3.1 Step I.A – Covertypes Map

An aerial photography-based covertypes map of the area within a one-half mile radius of the site area is presented as Figure 6-1. The site is zoned M3-1 for an industrial and manufacturing district. The properties are currently used for a variety of commercial purposes. The project area is highly urbanized with commercial, industrial, residential and road and utility development. Land use in the surrounding area is predominantly industrial paper manufacturing, marble importing facility, steel cutting facilities, major oil storage terminal, dry cleaning facilities, and storage warehouses. An active dry cleaning facility (Carnegie Hotel Cleaners, Ltd.) is located in the northern half of Block

2598, Lot 1. The nearest residences are northeast of the site near the corner of Locust Avenue and East 141st Street. Plant communities include limited residential and commercial landscaped areas.

The East River is located immediately east of Block 2597, Lot 1. The East River is classified as a Class I saline surface water by the NYSDEC. The best usages of Class I waters are secondary contact recreation and fishing. These waters are suitable for fish, shellfish, and wildlife propagation and survival. The East River is a State-protected stream.

6.3.2 Step I.B – Description of Fish and Wildlife Resources

6.3.2.1 Fish and Wildlife Resources and Covertypes

There are no NYSDEC Wetlands, Critical Habitats or designated Wild, Scenic or Recreational Rivers mapped within the project area. With the exception of the East River, the project area is composed of the terrestrial-systems-cultural coertype. This coertype includes residential, commercial, industrial, transportation and institutional land uses. Typically associated with this coertype are trees, lawns, landscaping and unmaintained vegetated areas.

6.3.2.2 Fauna Expected within each Coertype and Aquatic Resource

The terrestrial-systems-cultural coertype present in the project area provides limited feeding, resting and breeding habitat for birds and small mammals. During recent RI activities at the site, the only wildlife observed were rock pigeons, house sparrows and gulls. Other species typical of a highly urbanized environment are likely present including Norway rat, house mouse, gray squirrel and several common bird species including European starling, red-tailed hawk, American kestrel and mourning dove. Spring, winter and fall migrant bird species may pass over the project area or rest and feed in the area on a transient basis.

According to the NYSDEC Environmental Resource Mapper, the site is located within the historic range of the American burying beetle (*Nicrophorus americanus*). The site does not provide suitable habitat for the American burying beetle. This species requires natural soil and vegetation resources for propagation.

In a letter dated August 10, 2011, the New York Natural Heritage Program indicated that their database shows records of barn owl, yellow-crowned night heron, and a colonial waterbird nesting area on the North and South Brother Island in the East River (Appendix M).

The United States Fish and Wildlife Service (USFWS) identified the Federally Endangered shortnose sturgeon (*Acipenser brevirostrum*) as present within Bronx County. The USFWS noted that this sturgeon occurs primarily in the Hudson River.

The East River is located immediately east of Block 2597, Lot 1 where an oil-storage facility currently operates and there are several mooring points for large oil/fuel cargo vessels in the East River. The former MGP site has no known impact on fish and wildlife utilizing the East River.

The USFWS National Wetland Inventory (NWI) identifies the East River as an Estuarine wetland. No other wetlands are mapped in the project area. No wetlands are located on or adjacent to the site.

6.3.2.3 Observations of Stress

No atypical biotic conditions such as reduced vegetative growth and density, wildlife mortality, changes in species assemblages and distribution, or the absence of expected biota have been observed at the site.

6.3.3 Step I.C – Description of Fish and Wildlife Resource Values

Because of its location in an urbanized area and the presence of the building and sidewalks which cover the entire surface of the site, the properties situated on the former MGP operational areas provide very limited habitat for urban-dwelling wildlife. The site does not provide any current or potential value to humans as a nature recreation area. The East River is a popular fishing destination renowned for striped bass and bluefish angling.

6.3.4 Step I.D – Identification of Applicable Fish and Wildlife Regulatory Criteria

No Federal or State wetlands or aquatic resources are located on the site. The site does not provide suitable habitat for wildlife other than urban dwelling species. The East River is regulated by

the U.S. Army Corps of Engineers under Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act; and the NYSDEC under Section 401 of the Clean Water Act and by the State under the Protection of Waters Program (Article 15 of the ECL).

6.3.5 Summary and Recommendations

The site is located in a highly developed, urbanized area. Plant communities in the area include limited residential and commercial landscaped areas. The results of the FWIA Step I analysis indicate that there is limited potential for wildlife at the site. Because of its location in an urbanized area and the presence of warehouse buildings and sidewalks which cover the entire surface of the site, the site does not provide suitable habitat for wildlife. The site does not provide any current or potential value to humans as a nature recreation area.

7.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

7.1 Summary

7.1.1 Site History

- The MGP operated from 1869 to 1932 and occupied properties between E. 138th Street, East 141st Street, the Bruckner Expressway, and the shoreline of the East River. The area is currently developed and consists of 7 city blocks.
- Block 2598, Lot 46 is currently being managed under the Brownfield Cleanup Program (BCP Site #203053-05-12). This property was investigated as a separate RI in 2011 and a RI report was finalized and submitted to NYSDEC in April 2012. An Environmental Easement (EE) was filed and authorized by NYSDEC on February 22, 2014.
- Gas was produced using both the coal gas and Lowe water gas processes. Gas production occurred on Block 2597, Lot 1 and Block 2598, Lot 1, and Block 2598, Lot 46. Gas produced was stored in holders on Block 2598, Lot 1 and Block 2598, Lot 46. Storage of feed oil feed stocks occurred on Block 2590, Lot 1 and coal was stored on Block 2591, Lot 46 and Block 2592, Lot 35. The remaining blocks were used for various operations such as maintenance and storage.

7.1.2 Geology and Hydrogeology

- Geology beneath the site includes a series of unconsolidated soils overlying bedrock. The key soil lithologies are urban fill, sand, silt and peat, and clay. Bedrock in the area of the site is the Fordham Gneiss.
- Groundwater occurs in the overburden soil and in bedrock. The water table occurs at depths ranging from 3 to 6 feet bgs. Ground water flow in the overburden generally flows from the area of the Bruckner Expressway towards the East River. At the site this regional flow is locally disrupted by the presence of subsurface remnant structures such as holder foundation at Block 2598, Lot 46 and a relatively shallow ridge of bedrock between the Locust Avenue and the East River.
- The East River shoreline has a steel sheeting bulkhead which likely acts as an effective barrier to groundwater migration.
- Tidal influence on overburden groundwater flow is limited to the near-shore area between Locust Avenue and the East River shoreline.

7.1.3 Field Observations and Measurements

- The highest PID readings were observed at and near former gas manufacturing structures including the former gas holders #1 and #2, the former water gas plant and tar wells, and ancillary former MGP structures on Block 2598, Lot 1. Lower PID readings occurred at and near former MGP structures as well as near the known heating oil spill on Block 2591, Lot 46 and near areas adjacent to the former MGP structures at Block 2597, Lot 1. PID readings were elevated in a monitoring well on Block 2592, Lot 35 and appear to be associated with petroleum impacts as there was LNAPL observed in this well. PID observations were also elevated in the bedrock monitoring wells located around Block 2598, Lot 46.
- Odors were generally observed throughout the site area, and in general, were observed where other impacts were noted including staining, sheens, and NAPLs.
- Staining and sheens were observed within and adjacent to the former MGP structures including the water gas plant, gas holders #1 and #2, separators, and water gas condensers on Block 2598, Lot 1. Petroleum-related sheens and LNAPL were also observed at locations near the known heating oil UST and spill on Block 2591, Lot 46.
- Fuels and fuel oils were also identified in several subsurface soil samples from borings at Block 2591, Lot 46, Block 2598, Lot 46, Block 2598, Lot 1, and Block 2597, Lot 1.
- LNAPL was observed in MW-03 on Block 2592, Lot 35 where 1.3 to 2.3 feet of LNAPL was measured, which is petroleum related. LNAPL coatings were also observed in soil borings near the former heating oil UST on Block 2591, Lot 46.
- Coal tar coatings were observed in subsurface soil adjacent to the former tar tanks on Block 2597, Lot 1, and in a few bedrock fractures in bedrock wells BW-01 and BW-02 on Block 2598, Lot 46.
- Coal tar/creosote DNAPL was observed at depths between 5 and 20 feet bgs in the soil column advanced within the footprint of gas holders #1 and #2 located on Block 2598, Lot 1, and 2 feet of coal tar DNAPL was observed at the bottom of bedrock well BW-01 on Block 2598, Lot 46. Less concentrated CC and CWG tar residuals were also present in several subsurface soil samples from soil borings at Block 2591, Lot 46, and Block 2597, Lot 1.

7.1.4 Nature and Extent of Contamination

Subsurface Soil

- There were no VOC exceedances compared to Commercial Use SCOs in any soil samples collected from Block 2592, Lot 35; Block 2598, Lot 62; Block 2591, Lot 46; Block 2590, Lot 51; or Block 2597, Lot 1. BTEX compounds exceeded individual Commercial Use SCOs in only two soil borings (SB-43 and SB-44) both at Block 2598, Lot 1, within the footprint of former gas holders #2 and #1, respectively.
- PAHs were detected in subsurface soil at greater concentrations and frequencies above Commercial Use SCOs at Block 2591, Lot 46; and Block 2598, Lot 1. These locations correspond to the areas near the 10,000 gallon fuel oil UST where LNAPL was observed in B-7, former MGP pipe racks, and former MGP coal shed at Block 2591, Lot 46, and the areas within and near the footprint of the three former gas holders at Block 2598, Lot 1 where coal tar was observed in SB-43 and SB-44 throughout the boring column.
- There were numerous exceedances in RI soil samples of VOCs for Unrestricted Use SCOs in the site area at various depths. VOC detections included BTEX compounds, with the highest concentrations generally reported at Block 2598, Lot 1 within and near the former MGP gas holders #1 and #2 at depths between 5 and 20 feet bgs. Lower concentrations of BTEX compounds were generally reported at various depths across the entire site area. There were numerous exceedances in RI soil samples for SVOCs, especially PAHs, as compared to Unrestricted Use SCOs across the site area in and adjacent to former MGP structures at various depths. Metals exceedances as compared to unrestricted criteria were found across the entire site various depths and are likely attributable to the nature of fill material throughout the greater NYC area.

Groundwater

- Groundwater contamination in the overburden can be characterized as a generally diffuse plume spread across the entire site area which is most concentrated in the vicinity of Block 2598, Lot 46 and Block 2598, Lot 1. The overall diffuse groundwater plume appears to be a result of multiple point sources originating from the heating oil UST at Block 2591, Lot 46, LNAPL in MW-03 at Block 2592, Lot 35, the known former petroleum operations at Block 2598, Lot 46, and petroleum impacts at Block 2597, Lot 1 mixed with MGP-related impacts from the former MGP gas manufacturing operations at Block 2598, Lot 1, Block 2598, Lot 46, and Block 2597, Lot 1, and CVOCs from the dry cleaning facility that occupies the eastern half of Block 2598, Lot 1.
- Detected VOCs in overburden groundwater exceeding Class GA standards included: CVOCs; BTEX compounds; MTBE; and isopropylbenzene. CVOCs were detected at the greatest frequencies in MWMF-04 on Block 2598, Lot 46, nearest to the commercial dry cleaning operation located across East 139th Street (i.e., on the west side of E. 139th Street). The

greatest concentrations of SVOCs, naphthalene in particular, were detected in monitoring wells east, north and south of former gas holders #1, #2, #3, around Block 2598, Lot 1, and gas holder #4 around Block 2598, Lot 46. Total cyanide and metals were detected above groundwater criteria at most locations across the former MGP operational area.

- Groundwater in the bedrock aquifer was assessed via four bedrock monitoring wells at Block 2598, Lot 46. Concentrations of VOCs and SVOCs detected in bedrock groundwater samples were generally higher than those detected in overburden groundwater samples. Detected VOCs exceeding Class GA standards include CVOCS, BTEX compounds, MTBE, and isopropylbenzene. The highest concentrations of CVOCS were detected in BW-02 nearest to the dry cleaners operating across East 139th Street. The greatest concentrations of SVOCs, naphthalene in particular, were detected in monitoring wells BW-01 and BW-02. Total cyanide detections exceeded the groundwater criterion in BW-01, BW-02, and BW-03.

7.1.5 Exposure Assessment

- The site is currently covered almost entirely by buildings, sidewalks and or roadways and slopes gently from the Bruckner Expressway towards the river.
- Groundwater is not currently used as a potable water source, nor are there plans for potable or industrial/commercial use of groundwater as this is not authorized by New York City law, no risk to human health from uncontrolled exposure to groundwater exists at the site.
- The observed contamination in both subsurface soil and groundwater is below warehouse building floor slabs and surrounding sidewalks generally at depths greater than 3 feet below the surface; therefore, no risk to human health from non-intrusive, uncontrolled exposure to subsurface soil and groundwater exists across the site area. The only potential exposure pathway is for construction workers during intrusive activities during which they may expose subsurface soil, soil vapor and or groundwater.

7.1.6 Fish and Wildlife Impact Analysis

- The results of the FWRIA indicate that there is limited potential for wildlife at the site. The site is located in a highly developed, urbanized area. Plant communities in the area include limited residential and commercial landscaped areas. Because of its location in an urbanized area and the presence of the warehouse building and sidewalks which cover the entire surface of the site area, the site does not provide suitable habitat for wildlife. The site does not provide any current or potential value to humans as a nature recreation area.

7.2 Conclusions

Based upon the observed distribution of contamination in site media across the site, it is apparent that multiple sources of contaminants have contributed to the nature and extent of

commingled contamination at the various parcels. In addition to MGP residuals, it is evident that there is onsite contamination from other sources including for fuel storage and possibly from vehicle or maintenance shop operations, and dry cleaning facility contributions. The observed contamination is below warehouse building floor slabs and surrounding sidewalks generally at depths greater than 3 feet below the surface; therefore, no risk to human health from non-intrusive, uncontrolled exposure to subsurface soil exists across the site area.

The extent of MGP-related NAPL in soil appears to be situated primarily within the former MGP gas holders #1 and #2 at Block 2598, Lot 1, and gas holder #4 at Block 2598, Lot 46 and is situated beneath impervious warehouse floors. This eliminates the potential for non-intrusive, uncontrolled exposure to this contamination. Block 2598, Lot 46 is considered fully characterized and an Environmental Easement was authorized by NYSDEC in February 2014 (Appendix A).

As a result of onsite historic uses as an MGP, truck storage and refueling station with USTs, and others described in earlier sections of this report, and property uses such as a dry cleaning facility and MOSF, groundwater within the site area contains both chlorinated and fuel-related VOCs, SVOCs, metals, and cyanide in excess of Class GA standards. The resulting dissolved phase plume is generally widespread across the site but is primarily BTEX and CVOC-related, based upon observed concentrations of the chlorinated solvents, as well as fuel-related, based upon the presence of MTBE. Groundwater in the bedrock was assessed at Block 2598, Lot 46 and contamination in the bedrock is more concentrated compared to overburden. However, since groundwater is not currently used as a potable water source, nor is there plans for potable or industrial/commercial use of groundwater as this is not authorized by New York City law, no risk to human health from uncontrolled exposure to groundwater exists at the site.

Based on the results of this RI, it is noted that there is minimal potential for public contact with site contaminants in the current use scenario. However, exposure to contaminated soil, soil vapor or groundwater may occur as a result of construction activities within the buildings or beneath adjacent sidewalks. Plans should be implemented that provide guidelines for the performance of intrusive activities including management of soil and groundwater, air monitoring, and worker safety.

7.3 Recommendations

The recommendations below are proposed based on the findings of the RI and SCS presented herein, in conjunction with previous investigation findings.

Based on the current use and configuration of the site (i.e., it is entirely covered by buildings, concrete sidewalks, and or roadways), there is minimal potential for public contact with subsurface contaminants at the site. However, exposure to contaminated soil, soil vapor or groundwater may occur as a result of construction activities within the buildings or beneath adjacent sidewalks. Plans should be implemented that provide guidelines for the performance of intrusive activities including management of soil and groundwater, air monitoring, and worker safety.

No further action is warranted at this time, with the exception of a Site Management Plan and Institutional Controls (ICs) and or deed restrictions (DRs).

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TABLES

**TABLE 1-1
East 138th Street Works Site
Former MGP Structures at Block/Lot**

EAST 138th STREET WORKS FORMER MGP SITE				
Block	Lot	Former MGP Structures	Former MGP Use	Present Day Owner*
Block 2592	Lot 35	Anthracite Coal Storage	Storage	Legis Realty LLC
		Shavings Storage		
		Brick & Cement Shed		
		Brick Shed		
		Storage Sheds		
Block 2598	Lot 66	Brick Shed	Storage	Anda Realty LLC
	Lot 62	Brick Shed	Storage	Walnut Realty Associa
	Lot 46	Store Houses	Water Gas	295 Locust Associates
		Shavings Scrubber House		
		Gas Holder #4 (2,630 cu. Ft.)		
		Water Gas Purifying House		
Block 2591	Lot 46	Fire Oil UST (230 gal.)	Gasoline/Coal Storage	Empire 850 LLC
		Gasoline UST (550 gal.)		
		Spare Parts		
		Pipe Racks		
		Lumber Shed		
		Gasoline UST		
		Garage (Storage House)		
		Office		
		Coal Shed		
		Brick and Cement Shed		
		Coal Storage		
		Waste, Oil & Misc Storage		
		Block 2590		
Paint Storage				
Wagons				
Autos				
Brick Storage				
Paint Shop				
Carpenter				
Lumber Storage/Print Shop				
Rigger Shed				
Machinery Storage				
Formite Engine				
Water Gas Meter House				
Cement Storage				
Calorimeter House				
Laboratory				
Tar Tank in Pits (24,000 gal.)				
Waste Storage				
Locker & Mess Hall				
Pump House				
Tar AST (20,000 gal.)				
Oil Tank #1 (250,000 gal.)				
Drip Oil AST (9,000 gal.)				
Drip Oil AST (11,000 gal.)				
Drip Oil AST				

**TABLE 1-1
East 138th Street Works Site
Former MGP Structures at Block/Lot**

EAST 138th STREET WORKS FORMER MGP SITE				
Block	Lot	Former MGP Structures	Former MGP Use	Present Day Owner*
Block 2598	Lot 1	Coal Gas Purifier Boxes & Houses	Coal Gas/Water Gas Manufacturing Operations	885 East 138th Street
		Water Gas Purifying House		
		Ammonia/Tar Well		
		Machine Shop		
		Coal Scrubber/Gas Condenser House		
		Water Gas Plant		
		Exhaust Engine House		
		Boilerhouse		
		Tar Well (8,037 gal.)		
		Tar Well #2 (1,600 gal.)		
		Gas Holder #1 (300,000 cu. ft.) Relief Holder		
		Calorimeter House		
		Gas Holder #2 (75,000 cu. ft.)		
		Pump House		
		Ammonia AST #1		
		Ammonia AST #2 (60,000 gal.)		
		Ammonia AST #3 (62,200 gal.)		
		Yard Drip Seperator		
		Proposed Seperator		
		Gas Holder #3 (576,000 cu. ft.)		
		Gas Oil Storage Tank #2 (426,000 gal.)		
Salt Water Condenser				
Governor House/Valve House				
Coal Gas Meter House				
Water Gas Saltwater/Condensers				
Block 2597	Lot 1	Office	Coal Gas Manufacturing Operations	Castle Port Morris ET
		Coal Yard		
		Generator House		
		Engine Room/Retort House		
		Chimneys		
		Boilers		
		Tar Well		
		Blacksmith & Storage Shed		
		Retort House		
		Retort House		
		Office and Shop		
		Coke Pockets		
		Coal Pocket		
		Tank House		
		Tar Well (Underground)		
		Oil Tank #1		
		Rail Spur		
		Tar Tanks		
		Coal Hoist & Tower		
		Pump House		
		Electric House		
Ash Pocket				

* 2016 NYC Open Accessible Space Information System

TABLE 2-1
East 138th Street Works Site
Soil Boring and Monitoring Well Location Rationale

EAST 138th STREET WORKS FORMER MGP SITE			
Location ID	Type	Rationale	Block Location
SB-01	Soil boring/soil sampling	Assess soil conditions near former coal storage area and adjacent to former oil shed.	Block 2591, Lot 46 Paper Enterprises, Inc.
SB-02	Soil boring/soil sampling	Assess soil conditions adjacent to a former fuel oil spill.	Block 2591, Lot 46 Paper Enterprises, Inc.
SB-03	Soil boring/soil sampling	Assess soil conditions adjacent to a former fuel oil spill.	Block 2591, Lot 46 Paper Enterprises, Inc.
SB-04	Soil boring/soil sampling	Assess soil conditions near a former coal storage area.	Block 2591, Lot 46 Paper Enterprises, Inc.
SB-05	Soil boring/soil sampling	Assess soil conditions near a former gasoline UST.	Block 2591, Lot 46 Paper Enterprises, Inc.
SB-06	Soil boring/soil sampling	Assess soil conditions near existing weld and machine shop.	Block 2592, Lot 35 Colonial Steel
SB-07	Soil boring/soil sampling	Assess soil conditions near the water gas plant.	Block 2598, Lot 1 Commercial Cleaning Business
SB-08	Soil boring/soil sampling	Assess soil conditions adjacent to former gas holder #1.	Block 2598, Lot 1 Commercial Cleaning Business
SB-09	Soil boring/soil sampling	Assess soil conditions near former water gas meter house.	Block 2590, Lot 51 Automobile Service Business
SB-10	Soil boring/soil sampling	Assess soil conditions adjacent to former gas holder #3.	Block 2598, Lot 1 Commercial Cleaning Business
SB-11	Soil boring/soil sampling	Assess soil conditions near former oil tank #1.	Block 2590, Lot 51 Automobile Service Business
SB-12	Soil boring/soil sampling	Assess soil conditions near former tar tanks in pits.	Block 2590, Lot 51 Automobile Service Business
SB-13	Soil boring/soil sampling	Assess soil conditions near former gas holder #3.	Block 2598, Lot 1 Commercial Cleaning Business
SB-14	Soil boring/soil sampling	Assess soil conditions adjacent to a former leak from a fuel oil tank.	Block 2598, Lot 1 Commercial Cleaning Business
SB-15	Soil boring/soil sampling	Assess soil conditions west of MW-05 along 138th Street, where naphthalene-like impacts were observed.	Block 2598, Lot 1 Commercial Cleaning Business
SB-16	Soil boring/soil sampling	Assess soil conditions east of MW-05 along 138th Street, where naphthalene-like impacts were observed.	Block 2598, Lot 1 Commercial Cleaning Business
SB-17	Soil boring/soil sampling	Assess soil conditions near former tar well #2.	Block 2598, Lot 1 Commercial Cleaning Business
SB-18	Soil boring/soil sampling	Assess soil conditions near former generator house.	Block 2597, Lot 1 Sprague Operating Resources
SB-19	Soil boring/soil sampling	Assess soil conditions adjacent to and upgradient of former retort house.	Block 2597, Lot 1 Sprague Operating Resources
SB-20	Soil boring/soil sampling	Assess soil conditions near the former retort house.	Block 2597, Lot 1 Sprague Operating Resources
SB-21	Soil boring/soil sampling	Assess soil conditions within footprint of former tar tanks.	Block 2597, Lot 1 Sprague Operating Resources
SB-22	Soil boring/soil sampling	Assess soil conditions within footprint of former tank house.	Block 2597, Lot 1 Sprague Operating Resources
SB-32	Soil boring/soil sampling	Assess soil conditions east of MW-01 along East 140th Street.	Block 2591, Lot 46 Paper Enterprises, Inc.
SB-33	Soil boring/soil sampling	Assess soil conditions within adjacent to former 550 gal gasoline UST.	Block 2591, Lot 46 Paper Enterprises, Inc.

**TABLE 2-1
East 138th Street Works Site
Soil Boring and Monitoring Well Location Rationale**

EAST 138th STREET WORKS FORMER MGP SITE			
Location ID	Type	Rationale	Block Location
SB-34	Soil boring/soil sampling	Assess soil conditions within adjacent to former fuel oil UST.	Block 2591, Lot 46 Paper Enterprises, Inc.
SB-35	Soil boring/soil sampling	Assess soil conditions within adjacent to former 550 gal gasoline UST.	Block 2591, Lot 46 Paper Enterprises, Inc.
SB-36	Soil boring/soil sampling	Assess soil conditions south of a former fuel oil spill.	Block 2591, Lot 46 Paper Enterprises, Inc.
SB-37	Soil boring/soil sampling	Assess soil conditions south of gasoline UST and west of fuel oil spill.	Block 2591, Lot 46 Paper Enterprises, Inc.
SB-38	Soil boring/soil sampling	Assess soil conditions near former 550 gal gasoline UST.	Block 2591, Lot 46 Paper Enterprises, Inc.
SB-39	Soil boring/soil sampling	Assess soil conditions north of a former fuel oil spill.	Block 2591, Lot 46 Paper Enterprises, Inc.
SB-40	Soil boring/soil sampling	Assess soil conditions near former coal storage area.	Block 2591, Lot 46 Paper Enterprises, Inc.
SB-41	Soil boring/soil sampling	Assess soil conditions near former gas holder #3.	Block 2598, Lot 1 Commercial Cleaning Business
SB-42	Soil boring/soil sampling	Assess soil conditions near former ammonia ASTs.	Block 2598, Lot 1 Commercial Cleaning Business
SB-43	Soil boring/soil sampling	Assess soil conditions within footprint of former gas holder #2.	Block 2598, Lot 1 Commercial Cleaning Business
SB-44	Soil boring/soil sampling	Assess soil conditions within footprint of former gas holder #1.	Block 2598, Lot 1 Commercial Cleaning Business
MW-01	Overburden Monitoring Well	Assess soil conditions and groundwater level in overburden near former coal storage area.	Block 2591, Lot 46 Paper Enterprises, Inc.
MW-02	Overburden Monitoring Well	Assess soil conditions and groundwater level in overburden upgradient of former Works site.	Upgradient - East 139th Street
MW-03	Overburden Monitoring Well	Assess soil conditions and groundwater level in overburden upgradient of/adjacent to former anthracite coal storage area.	Block 2592, Lot 35 Colonial Steel
MW-04	Overburden Monitoring Well	Assess groundwater quality in overburden near existing weld and machine shop.	Block 2598, Lot 62 Walnut Realty Associates
MW-05	Overburden Monitoring Well	Assess soil conditions and groundwater level in overburden adjacent to former gas holder #2.	Block 2598, Lot 1 Commercial Cleaning Business
MW-06	Overburden Monitoring Well	Assess soil conditions and groundwater level in overburden downgradient of former gas holder #1.	Block 2598, Lot 1 Commercial Cleaning Business
MW-07	Overburden Monitoring Well	Assess soil conditions and groundwater level in overburden downgradient of former retort house.	Block 2597, Lot 1 Sprague Operating Resources
MW-11	Overburden Monitoring Well	Assess soil conditions and groundwater level in overburden adjacent to former coal storage area.	Block 2591, Lot 46 Paper Enterprises, Inc.
BW-01	Bedrock Monitoring Well	Assess groundwater conditions and groundwater level in bedrock adjacent to former gas holders.	Block 2598, Lot 46 BPA North LLC/295 Locust Associates

TABLE 2-1
East 138th Street Works Site
Soil Boring and Monitoring Well Location Rationale

EAST 138th STREET WORKS FORMER MGP SITE			
Location ID	Type	Rationale	Block Location
BW-02	Bedrock Monitoring Well	Assess groundwater conditions and groundwater level in bedrock adjacent to former gas holders.	Block 2598, Lot 46 BPA North LLC/295 Locust Associates
BW-03	Bedrock Monitoring Well	Assess groundwater conditions and groundwater level in bedrock adjacent to former gas holders.	Block 2598, Lot 46 BPA North LLC/295 Locust Associates
BW-04	Bedrock Monitoring Well	Assess groundwater conditions and groundwater level in bedrock near former gas holders.	Block 2598, Lot 46 BPA North LLC/295 Locust Associates

TABLE 2-2
SAMPLE ANALYTICAL SUMMARY
EAST 138th STREET WORKS SITE

Location	Matrix	Depth Interval (ft.)	Date Sampled	Parameters				Misc
				Volatile Organic Compounds	Semivolatile Organic Compounds	Metals	Total Cyanide	
BW-03	SO	38.5-39.5	1/26/2012	X	X	X	X	--
MW-01	SO	3.4-4	3/24/2010	X	X	X	--	--
	SO	4.5-5	3/24/2010	X	X	X	--	--
	SO	11-12	3/26/2010	X	X	X	--	Fingerprint/Forensics
	SO	16.5-18	3/26/2010	X	X	X	--	--
MW-02	SO	3.5-4.5	4/14/2010	X	X	X	--	--
	SO	5.5-6	4/30/2010	X	X	X	--	--
	SO	12-12.5	4/30/2010	X	X	X	--	--
MW-03	SO	3.5-4.5	4/15/2010	X	X	X	--	--
	SO	6-7	4/19/2010	X	X	X	--	Fingerprint/Forensics
	SO	14-15	4/19/2010	X	X	X	--	--
MW-04	SO	3.5-4.5	4/16/2010	X	X	X	--	--
	SO	8.5-9.5	4/20/2010	X	X	X	--	--
MW-05	SO	3-3.5	4/26/2010	X	X	X	--	--
	SO	4.5-5	4/26/2010	X	X	X	--	Fingerprint/Forensics
	SO	15-16	4/30/2010	X	X	X	--	--
	SO	20.5-21	4/30/2010	X	X	X	--	Fingerprint/Forensics
MW-06	SO	4-4.5	5/5/2010	X	X	X	--	--
	SO	10.5-11	5/12/2010	X	X	X	--	Fingerprint/Forensics
MW-07-URS	SO	4-4.5	12/15/2011	X	X	X	--	--
	SO	9.8-10.5	12/16/2011	X	X	X	--	--
MW-11	SO	3.5-4.5	1/7/2011	X	X	X	--	--
	SO	5-6	1/7/2011	X	X	X	--	--
	SO	20-21	1/17/2011	X	X	X	--	--
SB-01	SO	4.5-5	3/24/2010	X	X	X	--	--
	SO	5-5.5	3/25/2010	X	X	X	--	--
	SO	8.5-10	3/29/2010	X	X	X	--	--
	SO	33-34	3/29/2010	X	X	X	--	--
SB-02	SO	4.7-5.3	3/25/2010	X	X	X	--	Field Duplicate
	SO	11.5-13	3/29/2010	X	X	X	--	--
	SO	27-28	3/29/2010	X	X	X	--	--
SB-03	SO	4.5-5.5	3/26/2010	X	X	X	--	--
	SO	28-29	3/29/2010	X	X	X	--	--
SB-04	SO	2.5-3.5	4/13/2010	X	X	X	--	--
	SO	4.2-5	4/13/2010	X	X	X	--	--
	SO	11-12	4/16/2010	X	X	X	--	--
SB-05	SO	4-5	4/13/2010	X	X	X	--	--
	SO	6.5-7	4/16/2010	X	X	X	--	--
	SO	11.5-12	4/16/2010	X	X	X	--	--
SB-06	SO	3-4	4/14/2010	X	X	X	--	--
	SO	4.5-5.5	4/14/2010	X	X	X	--	Field Duplicate
SB-07	SO	3-4	4/14/2010	X	X	X	--	--
	SO	4.5-5.5	4/14/2010	X	X	X	--	--
	SO	13.3-14.2	4/20/2010	X	X	X	--	Fingerprint/Forensics
SB-08	SO	16-17	4/20/2010	X	X	X	--	--
	SO	3-3.5	4/28/2010	X	X	X	--	--
	SO	5-6	4/28/2010	X	X	X	--	--
	SO	7-7.5	4/29/2010	X	X	X	--	--
SB-09	SO	10.5-11	4/29/2010	X	X	X	--	--
	SO	4.5-5.5	4/27/2010	X	X	X	--	--
	SO	7-8	4/28/2010	X	X	X	--	--
SB-10	SO	3-4	4/26/2010	X	X	X	--	Field Duplicate
	SO	5-5.5	4/26/2010	X	X	X	--	--
	SO	11-11.5	4/29/2010	X	X	X	--	--

TABLE 2-2
SAMPLE ANALYTICAL SUMMARY
EAST 138th STREET WORKS SITE

Location	Matrix	Depth Interval (ft.)	Date Sampled	Parameters				Misc
				Volatile Organic Compounds	Semivolatile Organic Compounds	Metals	Total Cyanide	
SB-11	SO	3-4	4/28/2010	X	X	X	--	--
	SO	4.5-5	4/28/2010	X	X	X	--	--
	SO	13-13.5	4/29/2010	X	X	X	--	--
SB-12	SO	3.5-4	4/27/2010	X	X	X	--	--
	SO	4.5-5.5	4/27/2010	X	X	X	--	Field Duplicate
	SO	7-8	4/29/2010	X	X	X	--	--
SB-13	SO	12-13	4/29/2010	X	X	X	--	--
	SO	3-4	4/28/2010	X	X	X	--	--
SB-14	SO	15-16	4/29/2010	X	X	X	--	--
	SO	3.5-4	4/28/2010	X	X	X	--	--
SB-15	SO	4.5-5	4/28/2010	X	X	X	--	--
	SO	14.5-15	4/29/2010	X	X	X	--	--
	SO	3-3.5	5/4/2010	X	X	X	--	--
SB-16	SO	6-6.5	5/4/2010	X	X	X	--	--
	SO	22-23	5/4/2010	X	X	X	--	--
	SO	3.5-4	5/5/2010	X	X	X	--	--
SB-17	SO	6-6.5	5/5/2010	X	X	X	--	Fingerprint/Forensics
	SO	9-10	5/5/2010	X	X	X	--	--
	SO	17.5-18	5/5/2010	X	X	X	--	Fingerprint/Forensics
SB-18	SO	3-3.5	5/11/2010	X	X	X	--	--
	SO	5.5-6	5/11/2010	X	X	X	--	Fingerprint/Forensics
	SO	12-12.5	5/12/2010	X	X	X	--	--
SB-19	SO	4-4.5	5/11/2010	X	X	X	--	--
	SO	5.5-6	5/12/2010	X	X	X	--	--
	SO	8.5-9	5/12/2010	X	X	X	--	--
SB-20	SO	3-4	5/12/2010	X	X	X	--	Field Duplicate
	SO	5-5.5	5/12/2010	X	X	X	--	--
	SO	3-3.5	12/15/2011	X	X	X	--	--
SB-21	SO	4.5-5	12/15/2011	X	X	X	--	--
	SO	5-5.5	12/15/2011	--	--	--	--	Fingerprint/Forensics
	SO	3.5-4	12/15/2011	X	X	X	--	--
SB-22	SO	10-11	12/16/2011	X	X	X	--	--
	SO	21-22	12/16/2011	X	X	X	--	Fingerprint/Forensics
	SO	4-4.5	12/15/2011	X	X	X	--	Field Duplicate
SB-23	SO	3-4	1/13/2011	X	X	X	--	--
	SO	5-6	1/17/2011	X	X	X	--	--
	SO	9-10	1/17/2011	X	X	X	--	--
SB-24	SO	13-14	1/17/2011	X	X	X	--	--
	SO	3.5-4	1/11/2011	X	X	X	--	--
	SO	10.5-11	1/14/2011	X	X	X	--	--
SB-25	SO	13.5-14	1/14/2011	X	X	X	--	--
	SO	10-11	1/14/2011	X	X	X	--	--
SB-26	SO	20-20.9	1/14/2011	X	X	X	--	--
	SO	9.5-10	1/18/2011	X	X	X	--	Field Duplicate
SB-27	SO	17.2-17.8	1/18/2011	X	X	X	--	--
	SO	3-4	1/13/2011	X	X	X	--	Field Duplicate
	SO	6.5-7	1/17/2011	X	X	X	--	--
SB-28	SO	13.5-14.2	1/17/2011	X	X	X	--	--
	SO	3-4	1/6/2011	X	X	X	--	--
	SO	8.5-9	1/6/2011	X	X	X	--	Field Duplicate 1/11/11 (8.2 - 9)
SB-29	SO	13.5-14.5	1/11/2011	X	X	X	--	--
	SO	4-5	1/6/2011	X	X	X	--	--
	SO	7.8-8.5	1/11/2011	X	X	X	--	--
	SO	11-11.5	1/11/2011	X	X	X	--	--
SB-30	SO	15.5-16.5	1/11/2011	X	X	X	--	--

TABLE 2-2
SAMPLE ANALYTICAL SUMMARY
EAST 138th STREET WORKS SITE

Location	Matrix	Depth Interval (ft.)	Date Sampled	Parameters				Misc
				Volatile Organic Compounds	Semivolatile Organic Compounds	Metals	Total Cyanide	
SB-39	SO	3.5-4	1/7/2011	X	X	X	--	--
	SO	5-5.5	1/7/2011	X	X	X	--	--
	SO	6.7-7.7	1/17/2011	X	X	X	--	--
	SO	14-15	1/17/2011	X	X	X	--	--
SB-40	SO	9.5-10	1/14/2011	X	X	X	--	--
	SO	13.5-14.5	1/14/2011	X	X	X	--	--
SB-41	SO	0.5-1	2/18/2014	X	X	X	--	--
	SO	7-9	2/18/2014	X	X	X	--	--
SB-42	SO	0.5-1	2/19/2014	X	X	X	--	Field Duplicate
	SO	18.5-19.5	2/21/2014	X	X	X	--	--
SB-43	SO	1-2	2/19/2014	X	X	X	--	--
	SO	10-12	2/19/2014	X	X	--	--	Fingerprint/Forensics
SB-44	SO	1.5-2	2/19/2014	X	X	X	--	--
	SO	10-12	2/21/2014	X	X	X	--	--
	SO	15-20	2/21/2014	X	X	--	--	Fingerprint/Forensics

X = Analyzed

-- = Not Analyzed

**Table 2-3
Monitoring Well Summary
East 138th Street Works Site**

Monitoring Well ID	Install Date	Block/Lot	Northing	Easting	Ground Elevation (Ft AMSL)	PVC Elevation (Ft AMSL)	Steel Casing Elevation (Ft AMSL)	Screen Setting (Ft bgs)	Well Depth (Ft bgs)
MW-01	3/26/2010	Block 2591, Lot 46	232350.2	1009728.4	8.11	7.86	8.11	3.0 to 13.0	15.0
MW-02	4/30/2010	East 139th Street - Upgradient	232319.1	1009366.9	9.00	8.71	9.00	3.5 to 13.5	15.5
MW-03	4/19/2010	Block 2592, Lot 35	232521.2	1009930.3	8.43	8.12	8.43	4.0 to 14.0	16.0
MW-04	4/20/2010	Block 2598, Lot 62	232103.9	1010136.4	8.13	7.74	8.13	3.0 to 13.0	15.0
MW-05	5/4/2010	Block 2598, Lot 1	231695.8	1009773.4	9.48	9.08	9.48	3.0 to 20.5	20.8
MW-06	5/12/2010	Block 2598, Lot 1	231654.2	1009986.3	9.97	9.66	9.97	3.0 to 10.0	10.2
MW-07 (URS)	12/16/2011	Block 2597, Lot 1	231355.2	1010153.7	8.30	7.90	N/A	4.6 to 9.6	10.0
MW-07 (Castle)	Unknown	Block 2597, Lot 1	231556.9	1010408.4	9.79	9.42	N/A	N/A to N/A	10.1
MW-11	1/19/2011	Block 2591, Lot 46	232284.3	1009815	8.05	7.82	8.05	3.0 to 13.0	15.0
MWMF-01	6/16/2011	Block 2598, Lot 46	232141.8	1010003.9	8.33	8.01	8.33	3.0 to 13.0	15.0
MWMF-02	3/15/2011	Block 2598, Lot 46	231854	1010105.9	9.39	9.04	9.39	3.0 to 13.0	15.0
MWMF-03	3/18/2011	Block 2598, Lot 46	231919.4	1009950.5	8.43	8.04	8.43	3.0 to 13.0	15.0
MWMF-04	3/21/2011	Block 2598, Lot 46	231967.9	1009879.8	7.93	7.69	7.93	19.0 to 29.0	29.2
MWMF-05	3/17/2011	Block 2598, Lot 46	232146.8	1009903.1	7.94	7.70	7.94	3.0 to 13.0	15.0
MWMF-06	3/17/2011	Block 2598, Lot 46	232075.2	1009848.8	8.00	7.70	8.00	3.0 to 13.0	15.0
MWMF-07S	3/16/2011	Block 2598, Lot 46	231992.1	1010198	8.95	8.69	8.95	3.2 to 9.2	11.2
MWMF-07D	3/15/2011	Block 2598, Lot 46	231986.4	1010206.1	9.01	8.74	9.01	14.1 to 19.1	19.6
MWMF-08	3/18/2011	Block 2598, Lot 46	231943.1	1009912.9	8.12	7.78	8.12	2.5 to 12.5	14.5
MWRX-01	4/20/2009	Block 2598, Lot 46	231906	1010157.4	9.63	9.34	9.63	3.0 to 9.6	9.6
MWRX-02	4/16/2009	Block 2598, Lot 46	231967.1	1009887.9	8.09	7.72	8.09	9.0 to 19.0	19.0
MWRX-03	4/17/2009	Block 2598, Lot 46	232101.4	1009869.4	8.17	7.73	8.17	3.0 to 9.7	9.7
MWRX-04	4/17/2009	Block 2598, Lot 46	232067.8	1010099.6	8.32	7.91	8.32	3.0 to 9.7	9.7
MWRX-05	4/20/2009	Block 2598, Lot 62	232103.5	1010161	8.32	8.05	8.32	3.0 to 9.7	9.7
BW-01	2/3/2012	Block 2598, Lot 46	231866.5	1010013.6	8.89	8.59	8.89	22.0 to 32.0	34.0
BW-02	2/2/2012	Block 2598, Lot 46	231948.9	1009906.6	8.13	7.58	8.13	37.0 to 47.0	49.0
BW-03	2/2/2012	Block 2598, Lot 46	232140.8	1009898.2	8.01	7.46	8.01	46.0 to 56.0	58.0
BW-04	2/1/2012	Block 2598, Lot 46	232007.9	1010179.3	8.79	8.34	8.79	27.5 to 37.5	39.5

Ft AMSL - elevation in feet above mean sea level FT bgs - feet below ground surface

**Table 2-4
Groundwater Elevation Measurements and NAPL Observations
East 138th Street Works Site**

Monitoring Well ID	Block/Lot	Northing	Easting	Ground Elevation (Ft AMSL)	PVC Elevation (Ft AMSL)	Steel Casing Elevation (BW-01 - BW-04) (Ft AMSL)	Depth to Water (TOR/Casing) 4/19/11 (Ft)	Water Elevation 4/19/11 (Ft AMSL)	PID Headspace 4/19/11 (ppm)	Comments on 4/19/11	Depth to Water (TOR/Casing) 5/4/11 (Ft)	Water Elevation 5/4/11 (Ft AMSL)	PID Headspace 5/4/11 (ppm)	Comments on 5/4/11	Depth to Water (TOR/Casing) 7/6/11 (Ft)	Water Elevation 7/6/11 (Ft AMSL)	PID Headspace 7/6/11 (ppm)	Comments on 7/6/11	Depth to Water (TOR/Casing) 7/29/11 (Ft)	Water Elevation 7/29/11 (Ft AMSL)	PID Headspace 7/29/11 (ppm)
MW-01	Block 2591, Lot 46	232350.2	1009728.4	8.11	7.86	8.11	4.51	3.35	0.3	No NAPL	4.74	3.12	N/A	No NAPL	4.79	3.07	5.2	No NAPL	4.90	2.96	0.5
MW-02	East 139th Street Upgradient	232319.1	1009366.9	9.00	8.71	9.00	5.31	3.40	0.9	No NAPL	5.41	3.30	N/A	No NAPL	5.65	3.06	2.6	No NAPL	5.73	2.98	0.3
MW-03	Block 2592, Lot 35	232521.2	1009930.3	8.43	8.12	8.43	N/A	N/A	78.0	Thick petro-like LNAPL	N/A	N/A	N/A	No NAPL	N/A	N/A	61.9	Thick LNAPL, couldn't detect water	N/A	N/A	N/A
MW-04	Block 2598, Lot 62	232103.9	1010136.4	8.13	7.74	8.13	2.73	5.01	0.0	No NAPL	2.85	4.89	N/A	No NAPL	2.95	4.79	6.4	No NAPL	3.05	4.69	2.5
MW-05	Block 2598, Lot 1	231695.8	1009773.4	9.48	9.08	9.48	5.44	3.64	97.4	Petroleum odor. No NAPL	5.44	3.64	88.8	Petroleum Odor. No NAPL	5.59	3.49	265.0	Sheen on water, strong petroleum odor. No NAPL	5.70	3.38	136.5
MW-06	Block 2598, Lot 1	231654.2	1009986.3	9.97	9.66	9.97	5.54	4.12	61.3	No NAPL	5.68	3.98	N/A	No NAPL	5.74	3.92	5.8	Faint naphthalene-like odor. No NAPL	5.80	3.86	0.2
MW-07 (URS)	Block 2597, Lot 1	231355.2	1010153.7	8.30	7.90	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-07 (Castle)	Block 2597, Lot 1	231556.9	1010408.4	9.79	9.42	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-11	Block 2591, Lot 46	232284.3	1009815	8.05	7.82	8.05	4.63	3.19	0.2	No NAPL	4.86	2.96	N/A	No NAPL	5.05	2.77	1.4	No NAPL	N/A	N/A	N/A
MWMF-01	Block 2598, Lot 46	232141.8	1010003.9	8.33	8.01	8.33	3.04	4.97	2.4	No NAPL	3.32	4.69	N/A	No NAPL	3.43	4.58	12.5	Faint petroleum odor. No NAPL	3.44	4.57	1.1
MWMF-02	Block 2598, Lot 46	231854	1010105.9	9.39	9.04	9.39	3.32	5.72	0.8	No NAPL	3.46	5.58	N/A	No NAPL	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MWMF-03	Block 2598, Lot 46	231919.4	1009950.5	8.43	8.04	8.43	1.71	6.33	2.0	No NAPL	1.97	6.07	N/A	No NAPL	2.13	5.91	0.6	No NAPL	2.11	5.93	0.0
MWMF-04	Block 2598, Lot 46	231967.9	1009879.8	7.93	7.69	7.93	3.50	4.19	290.0	Petro & Naphthalene Odor. No NAPL	3.69	4.00	N/A	No NAPL	3.71	3.98	58.5	Naphthalene like odor. No NAPL	3.62	4.07	147.6
MWMF-05	Block 2598, Lot 46	232146.8	1009903.1	7.94	7.70	7.94	4.61	3.09	7.4	No NAPL	4.93	2.77	N/A	No NAPL	4.97	2.73	25.2	Faint petroleum odor. No NAPL	5.12	2.58	4.2
MWMF-06	Block 2598, Lot 46	232075.2	1009848.8	8.00	7.70	8.00	6.28	1.42	24.6	Slight petroleum odor. No NAPL	6.26	1.44	N/A	No NAPL	6.33	1.37	25.9	Naphthalene like odor. No NAPL	6.45	1.25	34.0
MWMF-07S	Block 2598, Lot 46	231992.1	1010198	8.95	8.69	8.95	3.74	4.95	107.0	Petroleum odor. No NAPL	3.98	4.71	N/A	No NAPL	4.06	4.63	31.3	No NAPL	4.19	4.50	13.6
MWMF-07D	Block 2598, Lot 46	231986.4	1010206.1	9.01	8.74	9.01	3.77	4.97	9.4	Slight petroleum odor. No NAPL	3.90	4.84	N/A	No NAPL	4.15	4.59	3.8	No NAPL	4.22	4.52	0.0
MWMF-08	Block 2598, Lot 46	231943.1	1009912.9	8.12	7.78	8.12	2.80	4.98	169.0	Naphthalene odor at bottom. No	2.80	4.98	N/A	No NAPL	2.92	4.86	62.5	Naphthalene like odor. No NAPL	2.73	5.05	107.3
MWRX-01	Block 2598, Lot 46	231906	1010157.4	9.63	9.34	9.63	4.23	5.11	0.6	No NAPL	4.32	5.02	N/A	No NAPL	N/A	N/A	N/A	N/A	4.60	4.74	0.5
MWRX-02	Block 2598, Lot 46	231967.1	1009887.9	8.09	7.72	8.09	N/A	N/A	N/A	N/A	2.89	4.83	N/A	No NAPL	2.93	4.79	372.0	Chemical odor. No NAPL	2.97	4.75	415.2
MWRX-03	Block 2598, Lot 46	232101.4	1009869.4	8.17	7.73	8.17	6.05	1.68	3.4	No NAPL	6.03	1.70	N/A	No NAPL	6.13	1.60	6.3	No NAPL	6.30	1.43	3.6
MWRX-04	Block 2598, Lot 46	232067.8	1010099.6	8.32	7.91	8.32	3.12	4.79	6.3	No NAPL	3.27	4.64	N/A	No NAPL	3.22	4.69	4.6	No NAPL	3.15	4.76	14.3
MWRX-05	Block 2598, Lot 62	232103.5	1010161	8.32	8.05	8.32	N/A	N/A	N/A	N/A	2.78	5.27	N/A	No NAPL	N/A	N/A	N/A	N/A	3.10	4.95	7.1
BW-01	Block 2598, Lot 46	231866.5	1010013.6	8.89	8.59	8.89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BW-02	46	231948.9	1009906.6	8.13	7.58	8.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BW-03	Block 2598, Lot 46	232140.8	1009898.2	8.01	7.46	8.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BW-04	Block 2598, Lot 46	232007.9	1010179.3	8.79	8.34	8.79	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Ft AMSL - elevation in feet above mean sea level TOR - top of riser

**Table 2-4
Groundwater Elevation Measurements and NAPL Observations
East 138th Street Works Site**

Monitoring Well ID	Block/Lot	Northing	Easting	Ground Elevation (Ft AMSL)	PVC Elevation (Ft AMSL)	Steel Casing Elevation (BW-01 - BW-04) (Ft AMSL)	Comments on 7/29/11	Depth to Water (TOR/Casing) 8/11/15 (Ft)	Water Elevation 8/11/15 (Ft AMSL)	PID Headspace 8/11/15 (ppm)	Comments on 8/11/15 (High Tide)	Depth to Water (TOR/Casing) 8/12/15 (Ft)	Water Elevation 8/12/15 (Ft AMSL)	PID Headspace 8/12/15 (ppm)	Comments on 8/12/15 (Low Tide)
MW-01	Block 2591, Lot 46	232350.2	1009728.4	8.11	7.86	8.11	No NAPL	4.90	2.96	0.0	No NAPL	4.77	3.09	N/A	No NAPL
MW-02	East 139th Street Upgradient	232319.1	1009366.9	9.00	8.71	9.00	No NAPL	5.55	3.16	1.9	No NAPL	5.57	3.14	N/A	No NAPL
MW-03	Block 2592, Lot 35	232521.2	1009930.3	8.43	8.12	8.43	No NAPL	7.15	0.97	4.7	1.34' LNAPL. No DNAPL	8.40	-0.28	N/A	2.15' LNAPL. No DNAPL
MW-04	Block 2598, Lot 62	232103.9	1010136.4	8.13	7.74	8.13	No NAPL	2.87	4.87	N/A	No NAPL	2.82	4.92	N/A	No NAPL
MW-05	Block 2598, Lot 1	231695.8	1009773.4	9.48	9.08	9.48	No NAPL	5.50	3.58	N/A	No NAPL	5.00	4.08	N/A	No NAPL
MW-06	Block 2598, Lot 1	231654.2	1009986.3	9.97	9.66	9.97	NAPL on bottom of sample tubing	5.70	3.96	0.0	No NAPL	5.58	4.08	N/A	No NAPL
MW-07 (URS)	Block 2597, Lot 1	231355.2	1010153.7	8.30	7.90	N/A	N/A	5.03	2.87	0.0	No NAPL	5.44	2.46	N/A	No NAPL
MW-07 (Castle)	Block 2597, Lot 1	231556.9	1010408.4	9.79	9.42	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-11	Block 2591, Lot 46	232284.3	1009815	8.05	7.82	8.05	N/A	4.91	2.91	N/A	No NAPL	4.95	2.87	N/A	No NAPL
MWMF-01	Block 2598, Lot 46	232141.8	1010003.9	8.33	8.01	8.33	No NAPL	3.30	4.71	1.9	No NAPL	3.36	4.65	N/A	No NAPL
MWMF-02	Block 2598, Lot 46	231854	1010105.9	9.39	9.04	9.39	N/A	4.13	4.91	0.0	No NAPL	4.41	4.63	N/A	No NAPL
MWMF-03	Block 2598, Lot 46	231919.4	1009950.5	8.43	8.04	8.43	No NAPL	1.77	6.27	0.0	No NAPL	2.07	5.97	N/A	No NAPL
MWMF-04	Block 2598, Lot 46	231967.9	1009879.8	7.93	7.69	7.93	No NAPL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MWMF-05	Block 2598, Lot 46	232146.8	1009903.1	7.94	7.70	7.94	No NAPL	4.00	3.70	0.0	No NAPL	3.90	3.80	N/A	No NAPL
MWMF-06	Block 2598, Lot 46	232075.2	1009848.8	8.00	7.70	8.00	No NAPL	4.00	3.70	0.7	No NAPL	4.12	3.58	N/A	No NAPL
MWMF-07S	Block 2598, Lot 46	231992.1	1010198	8.95	8.69	8.95	No NAPL	3.85	4.84	0.0	No NAPL	3.87	4.82	N/A	No NAPL
MWMF-07D	Block 2598, Lot 46	231986.4	1010206.1	9.01	8.74	9.01	No NAPL	3.90	4.84	0.0	No NAPL	3.95	4.79	N/A	No NAPL
MWMF-08	Block 2598, Lot 46	231943.1	1009912.9	8.12	7.78	8.12	No NAPL	2.90	4.88	5.5	No NAPL	2.97	4.81	N/A	No NAPL
MWRX-01	Block 2598, Lot 46	231906	1010157.4	9.63	9.34	9.63	No NAPL	4.65	4.69	0.0	No NAPL	4.60	4.74	N/A	No NAPL
MWRX-02	Block 2598, Lot 46	231967.1	1009887.9	8.09	7.72	8.09	No NAPL	3.10	4.62	90.1	No NAPL	3.11	4.61	N/A	No NAPL
MWRX-03	Block 2598, Lot 46	232101.4	1009869.4	8.17	7.73	8.17	No NAPL	4.24	3.49	0.0	No NAPL	4.20	3.53	N/A	No NAPL
MWRX-04	Block 2598, Lot 46	232067.8	1010099.6	8.32	7.91	8.32	No NAPL	3.10	4.81	5.0	No NAPL	3.21	4.70	N/A	No NAPL
MWRX-05	Block 2598, Lot 62	232103.5	1010161	8.32	8.05	8.32	No NAPL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BW-01	Block 2598, Lot 46	231866.5	1010013.6	8.89	8.59	8.89	N/A	3.70	4.89	423.0	High Tide, Approx 2' of DNAPL on string	3.77	4.82	N/A	N/A
BW-02	46	231948.9	1009906.6	8.13	7.58	8.13	N/A	3.45	4.13	14.3	No NAPL	3.50	4.08	N/A	N/A
BW-03	Block 2598, Lot 46	232140.8	1009898.2	8.01	7.46	8.01	N/A	2.68	4.78	103.2	No NAPL	3.10	4.36	N/A	N/A
BW-04	Block 2598, Lot 46	232007.9	1010179.3	8.79	8.34	8.79	N/A	3.52	4.82	20.0	No NAPL	3.56	4.78	N/A	N/A

Ft AMSL - elevation in feet above mean sea level TOR - top of riser

**Table 3-1
Vertical Hydraulic Gradient Calculations
East 138th Street Works Site**

Well Clusters	Well ID	Date	Measuring Point Reference Elevation (ft amsl)	Depth to Water (ft)	Groundwater Elevation (ft amsl)	Screen Setting (feet bgs)	Ground Elevation (ft amsl)	Midpoint of Screen Elevation (ft amsl)	Vertical Separation (ft)	Vertical Gradient (ft/ft) 3/12/2012 Low Tide	Vertical Gradient (ft/ft) 3/12/2012, High Tide	Vertical Gradient (ft/ft) 8/11/2015 High Tide	Vertical Gradient (ft/ft) 8/12/2015 Low Tide	Vertical Flow Direction
Well Cluster MWMF-07S/ MWMF-07D	MWMF-07S	3/12/2012, Low Tide 3/12/2012, High Tide 8/11/2015, High Tide 8/12/2015, Low Tide	8.69 8.69 8.69 8.69	4.47 4.45 3.85 3.87	4.22 4.24 4.84 4.82	3.20 to 9.20 3.20 to 9.20 3.20 to 9.20 3.20 to 9.20	8.95	2.75	10.34	0.0309	(0.0000)	0.0000	0.0029	Down
	MWMF-07D	3/12/2012, Low Tide 3/12/2012, High Tide 8/11/2015, High Tide 8/12/2015, Low Tide	8.74 8.74 8.74 8.74	4.84 4.50 3.90 3.95	3.90 4.24 4.84 4.79	14.10 to 19.10 14.10 to 19.10 14.10 to 19.10 14.10 to 19.10	9.01	-7.59						
Well Cluster MWMF-08/ BW-02	MWMF-08	8/11/2015, High Tide 8/12/2015, Low Tide	7.78 7.78	2.90 2.97	4.88 4.81	2.50 to 12.50 2.50 to 12.50	8.12	0.62	34.49			0.0217	0.0212	Down
	BW-02	8/11/2015, High Tide 8/12/2015, Low Tide	7.58 7.58	3.45 3.50	4.13 4.08	37.00 to 47.00 37.00 to 47.00	8.13	-33.87						
Well Cluster MWMF-05/ BW-03	MWMF-05	3/12/2012, Low Tide 3/12/2012, High Tide 8/11/2015, High Tide 8/12/2015, Low Tide	7.70 7.70 7.70 7.70	5.62 5.66 4.00 3.90	2.08 2.04 3.70 3.80	3.00 to 13.00 3.00 to 13.00 3.00 to 13.00 3.00 to 13.00	7.94	-0.06	42.93	(0.0412)	(0.0424)	(0.0252)	(0.0130)	Up
	BW-03	3/12/2012, Low Tide 3/12/2012, High Tide 8/11/2015, High Tide 8/12/2015, Low Tide	7.46 7.46 7.46 7.46	3.61 3.60 2.68 3.10	3.85 3.86 4.78 4.36	46.00 to 56.00 46.00 to 56.00 46.00 to 56.00 46.00 to 56.00	8.01	-42.99						

amsl - elevation in feet above mean sea level

Table 3-2
 Slug Test Results East 138th Street Works Site

295 Locust Avenue - Block 2598, Lot 46 Slug Tests
 Summary of Results

Well ID	Hydraulic Conductivity [cm/sec]			
	FH	RH	N(**)	Mean (***)
MWMF1	8.52E-04	1.03E-03	2	9.37E-04
MWMF2	8.78E-04	1.06E-03	2	9.65E-04
MWMF3	2.48E-04	1.17E-04	2	1.70E-04
MWMF4	2.62E-04	3.44E-04	2	3.00E-04
MWMF5	8.37E-04	2.72E-04	2	4.77E-04
MWMF6	5.34E-04	1.12E-03	2	7.73E-04
MWMF7S	2.03E-03	3.93E-03	2	2.82E-03
MWMF7S(2)	2.82E-03	5.28E-03	2	3.86E-03
MWMF7S	(Mean of all 4 tests)		4	3.30E-03
MWMF7D	1.43E-03	1.00E-03	2	1.20E-03
MWMF8	3.08E-04	1.23E-04	2	1.95E-04
Geometric Mean of all Overburden MWs				8.38E-04

(**) - number of valid tests

(***) - geometric mean

FH - Falling head test

RH - Rising head test

Notes:

-For all graphs, normalized head is defined as $H(t)/H_0$, where $H(t)$ is the displacement measured at time t and H_0 is the initial displacement at time $t=0$.

-Results that are bold and italicized are considered invalid (see Data Useability sheet).

-While the geometric mean for both the falling and rising head tests are given, it is understood that the rising head tests more accurately describe the overall hydraulic characteristics of the aquifer.

(reference, *The Bouwer and Rice Slug Test - An Update*)

Table 3-3
Summary and Qualitative Observations in Overburden Soil Borings, Monitoring Wells at Consolidated Edison East 138th Street Former MGP Site
Bronx, NY

Boring/ Well/ Pit #	Street Location	Block/Lot #	Date(s) Drilled / Constr.	Water Table (feet bgs)	Bottom of Boring (feet bgs)	Boring Observations											Comments/ Impacts				
						0-5'	5-10'	10-15'	15-20'	20-25'	25-30'	30-35'	35-40'	40-45'	45-50'	50-55'		55-60'			
SB-01	Rose Feiss Blvd.	Block 2591/Lot 46 Paper Enterprises	3/24/2010 3/29/2010	4.5-5	34 - refusal	Fill PID=1.9 No odor.	Silts, sands and gravel @ 5-8.5'. PID=3.9 @ 5-5.5' Faint petro odor. Grey clay 8.5-10'. Sulfur odor.	Clay and silty sand. PID=4.7 Sulfur odor.	Silty sand. PID=0.0 Faint sulfur odor.	Silty sand. PID=0.0 Faint sulfur odor.	Silty sand, sandy silt and gravel. PID=0.0 No odor.	Silty sand and gravel. Refusal 34'. PID=0.0 No odor.							Petroleum impacts at water table.		
						SB-01 (4.5-5') BTEX: 0.0058 ppm VOCs: 0.0058 ppm PAHs: 7.258 ppm SVOCs: 7.442 ppm	SB-01 (5-5.5') BTEX: ND VOCs: 0.0053 ppm PAHs: 9.946 ppm SVOCs: 10.088 ppm					SB-01 (33-34') BTEX: ND VOCs: 0.005 ppm PAHs: ND SVOCs: 0.037 ppm									
SB-02	Rose Feiss Blvd.	Block 2591/Lot 46 Paper Enterprises	3/25/2010 3/29/2010	4.5	28 - refusal	Fill. PID=85.5 Fuel oil odor. LNAPL coating on soil grains (4.7-7.3')	Silts, sands and gravel. PID=49.1 Strong fuel oil odor.	Silts, sands and gravel @ 10-11.5'. PID=0.6 Slight fuel oil odor. Gray clay. PID=4.2 @ 11.5-15'. Sulfur odor.	Gray clay and silty sands. PID=3.5 Sulfur odor in clay.	Clay, sand and silt. PID=0.3 Sulfur odor in clay.	Sands and silts. Refusal 28'. PID=0.0 No odor.								Petroleum impacts at water table.		
						SB-02 (4.7-5.3')/ Dup BTEX: 0.0169 ppm VOCs: 0.0885 ppm PAHs: 31.69 ppm SVOCs: 31.69 ppm Fingerprint - No. 6 Fuel Oil		SB-02 (11.5-13') BTEX: 0.0024 ppm VOCs: 0.0494 ppm PAHs: 0.135 ppm SVOCs: 0.235 ppm				SB-02 (27-28') BTEX: ND VOCs: ND PAHs: ND SVOCs: 0.041 ppm									
SB-03	Rose Feiss Blvd.	Block 2591/Lot 46 Paper Enterprises	3/26/2010 3/29/2010	4.5	29 - refusal	Fill. PID=41.2 @ 4.5' Strong fuel oil odor. LNAPL coating on soil grains (4.5-6.5').	Silts, sands and gravel. PID=35 Fuel oil odor.	Silts, sands and gravel @ 10-10.5'. PID=7.8 Fuel oil odor. Gray clay 10.5-15'. PID=2.8	Clay and silty sand. PID=2.8 Sulfur odor in clay.	Silty sand. PID=0.0 No odor.	Silty sand, silt and gravel. Refusal 29'. PID=0.0 No odor.								Petroleum impacts at water table.		
						SB-03 (4.5-5.5') BTEX: 0.030 ppm VOCs: 0.229 ppm PAHs: 68.720 ppm SVOCs: 68.720 ppm						SB-03 (28-29') BTEX: ND VOCs: 0.0081 ppm PAHs: 0.268 ppm SVOCs: 0.353 ppm									
SB-04	East 139th Street	Block 2591/Lot 46 Paper Enterprises	4/13/2010 4/16/2010	4'	20	Fill. PID=0.7 No odor.	Silts, sands and gravel. PID=0.1 No odor.	Gray clay. PID=29.3 Strong sulfur odor.	Gray clay. PID=97.3 Strong sulfur odor.											No impacts.	
						SB-04 (2.5-3.5') BTEX: ND VOCs: ND PAHs: 2.615 ppm SVOCs: 2.615 ppm		SB-04 (11-12') BTEX: ND VOCs: ND PAHs: 0.043 ppm SVOCs: 0.077 ppm													
						SB-04 (4.2-5') BTEX: ND VOCs: ND PAHs: 3.194 ppm SVOCs: 3.248 ppm															
SB-05	East 139th Street	Block 2591/Lot 46 Paper Enterprises	4/13/2010 4/16/2010	6.5'	40	Fill. PID=1.1 No odor.	Silts, sands, gravel and thin organic layer. PID=3.5 Faint undifferentiated chemical odor.	Silt, fine sand and gray clay. PID=0.3 Faint sulfur odor.	Silt, fine sand and gray clay. PID=0.7 Faint sulfur odor.	Gray clay. PID=1.9 Moderate sulfur odor.	Gray clay over silty fine sand PID=35 No odor.	Silty fine sand PID=0.2 No odor.	Fine sand PID=0.0 No odor.							Undifferentiated chemical odors.	
						SB-05 (4-5') BTEX: ND VOCs: ND PAHs: 24.684 ppm SVOCs: 24.881 ppm	SB-05 (6.5-7') BTEX: 0.093 ppm VOCs: 0.164 ppm PAHs: 5.978 ppm SVOCs: 6.276.2 ppm	SB-05 (11.5-12') BTEX: ND VOCs: 0.020 ppm PAHs: 5.806 ppm SVOCs: 6.266 ppm													
SB-06	Rose Feiss Blvd.	Block 2592/Lot 35 Colonial Steel	4/14/2010 4/19/2010	4.5'	30 - refusal	Fill. PID=0.8 No odor.	Silts, sands, gravel and thin organic layer. PID=0.1 No odor.	Silty fine sand and gray clay. PID=1.3 Faint sulfur odor.	Silty fine sand. PID=0.0 Faint sulfur odor.	Fine sand and gray clay. PID=0.1 No odor.	Silts, sands and gravel. Refusal at 30'. PID=0.1 No odor.									No impacts.	
						SB-06 (3-4') BTEX: ND VOCs: 0.0276 ppm PAHs: 4.811 ppm SVOCs: 5.026 ppm	SB-06 (4.5-5.5'), dup BTEX: 0.0013 VOCs: 0.0109 ppm PAHs: 0.726 ppm SVOCs: 0.77 ppm														

Table 3-3
Summary and Qualitative Observations in Overburden Soil Borings, Monitoring Wells at Consolidated Edison East 138th Street Former MGP Site
Bronx, NY

Boring/ Well/ Pit #	Street Location	Block/Lot #	Date(s) Drilled / Constr.	Water Table (feet bgs)	Bottom of Boring (feet bgs)	Boring Observations										Comments/ Impacts		
						0-5'	5-10'	10-15'	15-20'	20-25'	25-30'	30-35'	35-40'	40-45'	45-50'		50-55'	55-60'
SB-07	East 139th Street	Block 2598/Lot 1 Commercial Cleaner	4/14/2010 4/20/2010	5'	17 - refusal	Fill. PID=0.8 Faint undifferentiated chemical odor at water table.	Silts, sands and gravel. PID=24.6 Strong naphthalene-like odor. Sheen.	Silt and sand. PID=742 Strong naphthalene-like odor.	Silts, sands and gravel. Refusal at 17'. PID=257 Moderate naphthalene- like odor. Sheen (jar shake test).									MGP Impacts. Naphthalene odor and sheen.
						SB-07 (3-4') BTEX: 0.0027 ppm VOCs: 0.0215 ppm PAHs: 862.2 ppm SVOCs: 868.773 ppm	SB-07 (4.5-5.5') BTEX: 0.124 ppm VOCs: 0.124 ppm PAHs: 264.11 ppm SVOCs: 280.94 ppm	SB-07 (13.3-14.2') Fingerprint - Similarities w/ CC/coal tar products BTEX: 10.12 ppm VOCs: 12.743 ppm PAHs: 268.5 ppm SVOCs: 288.726 ppm	SB-07 (16-17') BTEX: 2.15 ppm VOCs: 2.511 ppm PAHs: 5.562 ppm SVOCs: 6.931 ppm									
SB-08	East 138th Street	Block 2598/Lot 1 Commercial Cleaner	4/22/2010 4/29/2010	5	11 - refusal	Fill. PID=146 Moderate naphthalene odor 4.5-5.5'	Silts, sands and gravel. PID=256. Strong naphthalene odor 5- 10'.	Silts, sands and gravel. Refusal at 11' PID=215. Strong naphthalene odor 10-11'. Slight Sheen.										MGP Impacts. Naphthalene odor and sheen.
						SB-08 (3-3.5') BTEX: ND VOCs: 0.0092 ppm PAHs: 88.740 ppm SVOCs: 89.627 ppm	SB-08 (5-6') BTEX: ND VOCs: 0.076 ppm PAHs: 32.92 ppm SVOCs: 33.44 ppm	SB-08 (10.5-11') BTEX: 5.873 ppm VOCs: 9.528 ppm PAHs: 325.09 ppm SVOCs: 330.41 ppm										
							SB-08 (7-7.5') BTEX: 0.017 ppm VOCs: 0.565 ppm PAHs: 7.078 ppm SVOCs: 7.286 ppm											
SB-09	Rose Feiss Blvd.	Block 2590/Lot 1 Auto Service	4/23/2010 4/29/2010	4.5	15	Fill. PID=0.4. No odor.	Fill, sand, silt and gravel 5-9' Gray clay 9-10'. PID=0.5 Sulfur odor in clay.	Gray clay. PID=6.1. Sulfur odor.										No impacts.
						SB-09 (4.5-5.5') BTEX: ND VOCs: ND PAHs: 14.940 ppm SVOCs: 15.516 ppm	SB-09 (7-8') BTEX: ND VOCs: 0.010 ppm PAHs: ND SVOCs: 0.024 ppm											
SB-10	East 138th Street	Block 2598/Lot 1 Commercial Cleaner	4/26/2010 4/29/2010	5	15	Fill. PID=0.6. No odor.	Silts, sands and gravel. PID=0.8. No odor.	Silts, sands, gravel and gray clay. PID=5.6 in clay. Sulfur odor in clay.										No impacts.
						SB-10 (3-4'), dup BTEX: 0.0021 ppm VOCs: 0.0105 ppm PAHs: 18.904 ppm SVOCs: 19.378 ppm	SB-10 (5-5.5') BTEX: ND VOCs: 0.0102 ppm PAHs: 0.185 ppm SVOCs: 0.274 ppm	SB-10 (11-11.5') BTEX: 0.024 ppm VOCs: 0.0285 ppm PAHs: 0.296 ppm SVOCs: 0.296 ppm										
SB-11	Rose Feiss Blvd.	Block 2590/Lot 1 Auto Service	4/28/2010 4/29/2010	4.5	15	Fill. PID=2.2 Undifferentiated chemical odor 4 5.2'	Silts, sands and gravel.Gray clay 9.5-10'. PID=0.4 No odor below 5.2'.	Gray clay. PID=0.8. Slight sulfur odor.										Undifferentiated chemical odor.
						SB-11 (3-4') BTEX: ND VOCs: ND PAHs: 38.772 ppm SVOCs: 39.222 ppm	SB-11 (4.5-5') BTEX: ND VOCs: 0.036 ppm PAHs: 36.480 ppm SVOCs: 39.827 ppm	SB-11 (13-13.5') BTEX: ND VOCs: 0.017 ppm PAHs: 0.361 ppm SVOCs: 0.405 ppm										
SB-12	Rose Feiss Blvd.	Block 2590/Lot 1 Auto Service	4/27/2010 4/29/2010	4.5	15	Fill. PID=1.6. Swampy odor 4-5.5.	Silts, sands and gravel. PID=1.8 (7-8'). Faint petroleum odor 7-8'.	Silts, sands and gravel.Gray clay 12-15'. PID=2.6 in Gray clay. Slight sulfur odor.										Petroleum odor.
						SB-12 (3.5-4') BTEX: ND VOCs: ND PAHs: 2.642 ppm SVOCs: 2.749 ppm	SB-12 (7-8') BTEX: ND VOCs: 0.018 ppm PAHs: ND SVOCs: 0.047 ppm	SB-12 (12-13') BTEX: ND VOCs: 0.0147 ppm PAHs: 0.485 ppm SVOCs: 0.485 ppm										
						SB-12 (4.5-5.5'), dup BTEX: ND VOCs: 0.011 ppm PAHs: 0.432 ppm SVOCs: 0.552 ppm												
SB-13	Rose Feiss Blvd.	Block 2598/Lot 1 Commercial Cleaner	4/28/2010 4/29/2010	6	16 - refusal	Fill. PID=0.5 No odor.	Silts, sands and gravel (fill). PID=0.5 No odor.	Sand and gravel (fill). PID=0.4. No odor.	Silt, sands and gravel (fill). Refusal at 16' PID=0.4 Undifferentiated non- chemical odor.									Undifferentiated non- chemical odor.
						SB-13 (3-4') BTEX: ND VOCs: 0.0059 ppm PAHs: 0.156 ppm SVOCs: 0.189 ppm		SB-13 (15-16') BTEX: 0.0367 ppm VOCs: 0.083 ppm PAHs: 3.847 ppm SVOCs: 5.957 ppm										

Table 3-3
Summary and Qualitative Observations in Overburden Soil Borings, Monitoring Wells at Consolidated Edison East 138th Street Former MGP Site
Bronx, NY

Boring/ Well/ Pit #	Street Location	Block/Lot #	Date(s) Drilled / Constr.	Water Table (feet bgs)	Bottom of Boring (feet bgs)	Boring Observations											Comments/ Impacts	
						0-5'	5-10'	10-15'	15-20'	20-25'	25-30'	30-35'	35-40'	40-45'	45-50'	50-55'		55-60'
SB-14	Rose Feiss Blvd.	Block 2598/Lot 1 Commercial Cleaner	4/28/2010 4/29/2010	4.5	15 - refusal	Fill. PID=1.0 No odor.	Silts, sands, gravel and organics. PID=1.2 (6-7). Earthy odor in organic-rich layer 6-7'	Silts, sands and gravel. Refusal at 15'. PID=0.4. No odor.										No impacts.
						SB-14 (3.5-4') BTEX: ND VOCs: 0.012 ppm PAHs: 0.489 ppm SVOCs: 0.580 ppm	SB-14 (14.5-15') BTEX: ND VOCs: 0.0081 ppm PAHs: 2.576 ppm SVOCs: 2.637 ppm											
						SB-14 (4.5-5') BTEX: ND VOCs: 0.041 ppm PAHs: 0.472 ppm SVOCs: 0.762 ppm												
SB-15	East 138th Street	Block 2598/Lot 1 Commercial Cleaner	5/4/2010	5	23 - refusal	Fill. PID=21.2. Moderate naphthalene odor at 4.5'.	Silts, sands and gravel. PID=103 Strong naphthalene odor 5- 7.5'. Undifferentiated odor 7.5' to 10'.	Silts, sands and gravel. PID=47.1. Undifferentiated odor.	Silts, sands and gravel. PID=105. Strong naphthalene odor and sheen.	Silts, sands and gravel. Refusal at 23'. PID=284. Strong naphthalene odor and sheen.							MGP Impacts. Naphthalene odor and sheen.	
						SB-15 (3-3.5') BTEX: ND VOCs: ND PAHs: 2,159.4 ppm SVOCs: 2,293.91 ppm	SB-15 (6-6.5') BTEX: 3.71 ppm VOCs: 3.83 ppm PAHs: 214.05 ppm SVOCs: 220.57 ppm			SB-15 (22-23') BTEX: 59.39 ppm VOCs: 63.2 ppm PAHs: 25.57 ppm SVOCs: 26.021 ppm								
SB-16	East 138th Street	Block 2598/Lot 1 Commercial Cleaner	5/5/2010	6	18 - refusal	Fill. PID=0.4. No odor (no sample 4-5'.	Silts, sands and gravel. PID=24. Moderate naphthalene-like odor 6-6.5'.	Silts, sands and gravel. PID=30.6. Faint naphthalene odor 12.2-15'.	Silts, sands and gravel. Refusal at 18'. PID=450. Strong naphthalene odor. No sheen.								MGP Impacts. Naphthalene odor.	
						SB-16 (3.5-4') BTEX: 0.0012 ppm VOCs: 0.0101 ppm PAHs: 25.49 ppm SVOCs: 26.029 ppm	SB-16 (6-6.5') Fingerprint - Similarities w/ weathered CWG tars BTEX: 23.58 ppm VOCs: 24.07 ppm PAHs: 71.65 ppm SVOCs: 72.27 ppm	SB-16 (9-10') BTEX: ND VOCs: 0.011 ppm PAHs: 0.027 ppm SVOCs: 0.064 ppm	SB-16 (17.5-18') Fingerprint - Similarities w/ CWG tars BTEX: 40.51 ppm VOCs: 41.91 ppm PAHs: 86.86 ppm SVOCs: 90.245 ppm									
SB-17	Locust Avenue	Block 2598/Lot 1 Commercial Cleaner	5/11/2010 5/12/2010	4.5	12.5 - refusal	Fill. PID=47.3. Moderate naphthalene-like odor 4.5-5'.	Silts, sands and gravel. PID=99.3. Strong naphthalene odor. No sheen.	Silts, sands and gravel. Refusal at 12.5'. PID=898. Strong naphthalene odor. No sheen.									MGP Impacts. Naphthalene odor.	
						SB-17 (3-3.5') BTEX: ND VOCs: ND PAHs: 266.31 ppm SVOCs: 267.388 ppm	SB-17 (5.5-6') Fingerprint - Similarities w/ CC & CWG tars BTEX: 4.515 ppm VOCs: 4.651 ppm PAHs: 80.87 ppm SVOCs: 91.19 ppm	SB-17 (12-12.5') BTEX: 94.7 ppm VOCs: 110.328 ppm PAHs: 3,790 ppm SVOCs: 3,790 ppm										
SB-18	Locust Avenue	Block 2597/ Lot 1 Castle Terminal	5/11/2010 5/12/2010	4.5	9 - refusal	Fill. PID=0.5 No odor.	Silts, sands and gravel. Refusal at 9'. PID=1.8. No odor.										No impacts.	
						SB-18 (4-4.5') BTEX: ND VOCs: ND PAHs: 1.286 ppm SVOCs: 1.567 ppm	SB-18 (5.5-6') BTEX: ND VOCs: 0.0045 ppm PAHs: 38.88 ppm SVOCs: 39.072 ppm	SB-18 (8.5-9') BTEX: ND VOCs: 0.030 ppm PAHs: 0.361 ppm SVOCs: 0.391 ppm										
SB-19	Locust Avenue	Block 2597/L ot 1 Castle Terminal	5/12/2010	5	5.5 - refusal	Fill. PID=21.7. (4-5') Moderate petroleum odor at 4'. No sheen.	Silts, sands and gravel. Refusal at 5.5'. PID=37.6. Moderate petroleum odor. No sheen.										Petroleum odor and sheen.	
						SB-19 (3-4'), dup BTEX: ND VOCs: 0.031 ppm PAHs: 2.586 ppm SVOCs: 2.651 ppm	SB-19 (5-5.5') BTEX: 0.013 ppm VOCs: 0.381 ppm PAHs: 13.95 ppm SVOCs: 14.004 ppm											

Table 3-3
Summary and Qualitative Observations in Overburden Soil Borings, Monitoring Wells at Consolidated Edison East 138th Street Former MGP Site
Bronx, NY

Boring/ Well/ Pit #	Street Location	Block/Lot #	Date(s) Drilled / Constr.	Water Table (feet bgs)	Bottom of Boring (feet bgs)	Boring Observations											Comments/ Impacts	
						0-5'	5-10'	10-15'	15-20'	20-25'	25-30'	30-35'	35-40'	40-45'	45-50'	50-55'		55-60'
SB-20	East 138th Street	Block2597/L of 1 Castle Terminal	12/15/2011	5	5.5 - refusal	Fill. Gravel top 2" over Silt, sand and gravel. PID=18.4 @ 4.5-5' No odor.	Silts, sands and gravel. Refusal at 5.5'. PID=2.4. Petroleum odor.											Petroleum odor.
						SB-20 (3-3.5') BTEX: ND VOCs: 0.009 ppm PAHs: 1.521 ppm SVOCs: 3.082 ppm	SB-20 (5-5.5') Fingerprint - Similarities w/ gas oil, No. 4 Fuel Oils											
						SB-20 (4-4.5') BTEX: ND VOCs: 0.0228 ppm PAHs: 3.63 ppm SVOCs: 4.12 ppm												
SB-21	East 138th Street	Block2597/L of 1 Castle Terminal	12/15/2011 12/16/2011	4.5	22 - refusal	Fill. Silts, sand and gravel + wood. PID=0.1 No odor.	Fill. Cinders to 7.5'. Silts and f. sand, tr. Clay. No odors. PID=4.2. No odor.	Silt & f. sand, tr. Gravel. Wet with sulfur odor. PID=4.4. Sulfur odor.	Sand and silt. PID=22.9. Sulfur odor.	F-c sand, gravel, some silt, DNAPL tar coated. Naphthalene odor. Refusal at 22'. PID=35.8.							MGP Impacts. Naphthalene odor.	
						SB-21 (3.5-4') BTEX: ND VOCs: ND PAHs: 27.765 ppm SVOCs: 29.899 ppm		SB-21 (10-11') BTEX: ND VOCs: 0.0171 ppm PAHs: 800.2 ppm SVOCs: 838.6 ppm		SB-21 (21-22') Fingerprint - Similarities w/ CWG tars BTEX: ND VOCs: 0.0131 ppm PAHs: 4.327 ppm SVOCs: 5.814 ppm								
SB-22	East 139th Street	Block2597/L of 1 Castle Terminal	12/15/2011 12/16/2011	5	5 - refusal	Fill. Concrete over Silt & f-m sand, some gravel. PID=0.3. No odor.												No impacts.
						SB-22 (4-4.5'), dup BTEX: ND VOCs: 0.0036 ppm PAHs: 3.22 ppm SVOCs: 4.74 ppm												
SB-32	East 140th Street	Block 2591/Lot 46 Paper Enterprises	1/13/2011 1/17/2011	5	15	Fill. PID=0.1 No odors	Fill. Silts, sands and gravels PID=0.0 Faint naphthalene odor 9-10'.	Silts, sands and gravels 10-11, over clay 11-15'. PID=9.0 in clay. Strong sulfur odor in clay										MGP impacts. Naphthalene odor.
						SB-32 (3-4') BTEX: ND VOCs: ND PAHs: 92.98 ppm SVOCs: 94.41 ppm	SB-32 (5-6') BTEX: ND VOCs: 0.03 ppm PAHs: 12.454 ppm SVOCs: 12.53 ppm	SB-32 (13-14') BTEX: ND VOCs: 0.029 ppm PAHs: ND SVOCs: ND										
						SB-32 (9-10') BTEX: 0.0073 ppm VOCs: 0.0528 ppm PAHs: 5.461 ppm SVOCs: 5.997 ppm												
SB-33	Block 2591/Lot 46 Paper Enterprises	Block 2591/Lot 46 Paper Enterprises	1/11/2011 1/14/2011	10	20	Fill. PID=0.0 No odors	Fill. Silts, sands and gravels PID=1.3 No odors	Silts, sands and gravels PID=13.8 (10-11.6') Ammonia odor 10-11.6'	Sand 15-15.6', then clay to 20'. PID=8.9 in clay. Sulfur odor in clay.								Ammonia odor.	
						SB-33 (3.5-4') BTEX: 0.003 VOCs: 0.0058 ppm PAHs: 17.454 ppm SVOCs: 17.924 ppm		SB-33 (10.5-11') BTEX: 0.0307 ppm VOCs: 0.0585 ppm PAHs: 285.6 ppm SVOCs: 303.85 ppm										
								SB-33 (13.5-14') BTEX: ND VOCs: 0.014 ppm PAHs: 1.293 ppm SVOCs: 1.316 ppm										
SB-34	Block 2591/Lot 46 Paper Enterprises	Block 2591/Lot 46 Paper Enterprises	1/10/2011 1/14/2011	10	25	Fill. PID=0.1 No odors	Fill. Silts, sands and gravels PID=0.0 No odors	Silts, sands and gravels PID=0.1 No odors	Silt, some clay and gravel 20-20.9, over clay to 25'. PID=11.1 in clay. Sulfur odor in clay.								No impacts.	
								SB-34 (10-11') BTEX: ND VOCs: 0.015 ppm PAHs: 1.39 ppm SVOCs: 1.39 ppm		SB-34 (20-20.9') BTEX: ND VOCs: 0.017 ppm PAHs: 1.504 ppm SVOCs: 1.532 ppm								

Table 3-3
Summary and Qualitative Observations in Overburden Soil Borings, Monitoring Wells at Consolidated Edison East 138th Street Former MGP Site
Bronx, NY

Boring/ Well/ Pit #	Street Location	Block/Lot #	Date(s) Drilled / Constr.	Water Table (feet bgs)	Bottom of Boring (feet bgs)	Boring Observations											Comments/ Impacts	
						0-5'	5-10'	10-15'	15-20'	20-25'	25-30'	30-35'	35-40'	40-45'	45-50'	50-55'		55-60'
SB-35	Block 2591/Lot 46 Paper Enterprises	Block 2591/Lot 46 Paper Enterprises	1/10/2011 1/18/2011	9.5	20	Fill. PID=0.0 No odors	Fill. Silts, sands and gravels PID=0.0 No odors	Silts, sands and gravels PID=0.0 No odors	Silt, sand and gravels 15-17.8', over clay to 20'. PID=0.0 No odors									No impacts.
							SB-35 (9.5-10'), dup BTEX: 0.0022 VOCs: 0.0219 ppm PAHs: 0.626 ppm SVOCs: 0.684 ppm		SB-35 (17.2-17.8') BTEX: ND VOCs: 0.0335 ppm PAHs: 1.555 ppm SVOCs: 1.555 ppm									
SB-36	Rose Feiss Blvd.	Block 2591/Lot 46 Paper Enterprises	1/13/2011 1/17/2011	5	20	Fill. PID=0.0 No odors	Silts, sands and gravel. PID=0.0 No odors	Silts, sands and gravel 10-13', clay to 15'. PID=0.0 Faint sulfur odor in clay.	Clay. PID=1.6 Sulfur odor.									No impacts.
						SB-36 (3-4'), dup BTEX: ND VOCs: 0.0152 ppm PAHs: 827.8 ppm SVOCs: 864.108 ppm	SB-36 (6.5-7') BTEX: 0.0036 ppm VOCs: 0.0274 ppm PAHs: 20.642 ppm SVOCs: 20.935 ppm		SB-36 (13.5-14.2') BTEX: ND VOCs: 0.019 ppm PAHs: 0.155 ppm SVOCs: 0.155 ppm									
SB-37	Block 2591/Lot 46 Paper Enterprises	Block 2591/Lot 46 Paper Enterprises	1/6/2011 1/11/2011	10	20	Fill. PID=0.0 Faint petro. odor 4-5'.	Silts, sands and gravel. PID=138 Moderate petroleum odor at	Silts, sands and gravel.Gray clay 14.5'. PID=3.6 in clay. No odors.	Gray clay. PID=7.4 in clay. Sulfur odor.									Petroleum odors.
						SB-37 (3-4') BTEX: ND VOCs: ND PAHs: 91.88 ppm SVOCs: 95.655 ppm	SB-37 (8.2-9'), dup BTEX: 13.308 ppm VOCs: 17.7546 ppm PAHs: 69.2 ppm SVOCs: 73.81 ppm	SB-37 (13.5-14.5') BTEX: ND VOCs: 0.013 ppm PAHs: ND SVOCs: ND										
SB-38	Block 2591/Lot 46 Paper Enterprises	Block 2591/Lot 46 Paper Enterprises	1/6/2011 1/11/2011	10	20	Fill. PID=1.3 Faint undiff. Chemical odor at 3-3.5'. No sheen.	Clean sand 5-7.8, silts, sands and gravel. PID=5.3 Slight naphthalene odor at 8' and petroleum odor at 9.8 feet. No sheen.	Silts, sands and gravel. PID=13.4 Moderate petro. odor at 11'. Slight sheen.	Fine sand (15-15.2') and gray clay to 20'.. PID=3.8. Sulfur odor.									MGP impacts. Naphthalene odor and petroleum sheen.
						SB-38 (4-5') BTEX: 0.0034 ppm VOCs: 0.0034 ppm PAHs: 83.57 ppm SVOCs: 84.575 ppm	SB-38 (7.8-8.5') BTEX: 0.1264 ppm VOCs: 0.2024 ppm PAHs: 3,343 ppm SVOCs: 3,435 ppm Fingerprint - Similarities w/ CWG tars	SB-38 (11-11.5') BTEX: ND VOCs: 2.3 ppm PAHs: 80.9 ppm SVOCs: 82.2 ppm	SB-38 (15.5-16.5') BTEX: 0.0088 ppm VOCs: 0.0914 ppm PAHs: ND SVOCs: ND									
SB-39	Rose Feiss Blvd.	Block 2591/Lot 46 Paper Enterprises	1/7/2011 1/17/2011	5	25	Fill. PID=0.7. No odor.	Silts, sands and gravel. Clay at 9.6'. PID=85.6. Strong petroleum odor at 5'.	Clay. PID=0.0 Sulfur odor.	Silty sand. PID=0.0 No odor.	Fine sand. PID=0.0 No odor.								Petroleum odors.
						SB-39 (3.5-4') BTEX: ND VOCs: ND PAHs: 29.03 ppm SVOCs: 29.25 ppm	SB-39 (5-5.5') BTEX: 0.051 ppm VOCs: 0.801 ppm PAHs: 86.04 ppm SVOCs: 86.49 ppm Fingerprint - Similarities w/ No. 6 Fuel Oils and Crude Oil	SB-39 (6.7-7.7') BTEX: 0.31 ppm VOCs: 4.14 ppm PAHs: 132.23 ppm SVOCs: 137.33 ppm	SB-39 (14-15') BTEX: ND VOCs: 0.0267 ppm PAHs: ND SVOCs: ND									
SB-40	Block 2591/Lot 46 Paper Enterprises	Block 2591/Lot 46 Paper Enterprises	01/11/11 01/14/11	9.2	20	Fill. PID=0.0 No odor.	Fill. Silts, sands cinders and gravel. PID=61.8 at 9.2-10' Petro odor.	Silts, sands and gravels. PID=14.8 at 10-10.5' Faint petro odor 10-10.5'.	Clay PID=10.4 Sulfur odor.									Petroleum odors.
							SB-40 (9.5-10') BTEX: ND VOCs: ND PAHs: 12.865 ppm SVOCs: 13.645 ppm	SB-40 (13.5-14.5') BTEX: ND VOCs: 0.0362 ppm PAHs: 0.092 ppm SVOCs: 0.092 ppm										
SB-41	Block 2598/Lot 1 Commercial Cleaner	Block 2598/Lot 1 Commercial Cleaner	02/18/14	6.5	17	Fill. PID=1.3 No odor.	Fill. Silts, sands, gravel, and brick fragments. PID=2.4 No odor.	FILL. brick, no recovery 11-17'. Brick in shoe. PID=0.2	no recovery. Brick in shoe. PID=2.0									Fill.
						SB-41 (0.5-1.0') BTEX: 0.0092 ppm VOCs: 0.0092 ppm PAHs: 0.805 ppm SVOCs: 9.413 ppm	SB-41 (7-9') BTEX: 0.0024 ppm VOCs: 0.0078 ppm PAHs: NA SVOCs: NA	SB-41 (9-11') BTEX: NA VOCs: NA PAHs: 140.09 ppm SVOCs: 140.789 ppm										

Table 3-3
Summary and Qualitative Observations in Overburden Soil Borings, Monitoring Wells at Consolidated Edison East 138th Street Former MGP Site
Bronx, NY

Boring/ Well/ Pit #	Street Location	Block/Lot #	Date(s) Drilled / Constr.	Water Table (feet bgs)	Bottom of Boring (feet bgs)	Boring Observations											Comments/ Impacts						
						0-5'	5-10'	10-15'	15-20'	20-25'	25-30'	30-35'	35-40'	40-45'	45-50'	50-55'		55-60'					
SB-42	Block 2598/Lot 1 Commercial Cleaner	Block 2598/Lot 1 Commercial Cleaner	02/19/14 02/21/14	6.8	20	Fill. Sand, silt, gravel PID=17.1 (@ 0.5-1 ft) MPG odors.	Sand and silt. PID=351 MGP odors.	Sand and silt, trace gravel. PID=1052 (@15ft) MGP odors. Slight MGP product coating.	Sand and silt, trace gravel. PID=772 @ 20ft Free MGP Product NAPL. Strong MPG odor.												MGP Impacts. Coal tar.		
						SB-42 (0.5-1.0'), dup BTEX: ND VOCs: 0.012 ppm PAHs: 70.79 ppm SVOCs: 71.95 ppm		SB-42 (18.5-19.5') BTEX: 33.5 ppm VOCs: 39.5 ppm PAHs: 1,464.6 ppm SVOCs: 1,482.17 ppm															
SB-43	Block 2598/Lot 1 Commercial Cleaner	Block 2598/Lot 1 Commercial Cleaner	02/19/14	5	12	Fill. Sand and gravel PID=0.0 No odor.	Fill. Wood. PID=123.2 Free MGP Product. Strong odors.	Fill. Gravel PID=603 5' Free MGP Product measured down borehole. Strong odors.													MGP Impacts. Coal tar		
						SB-43 (1.0-2.0') BTEX: 0.0014 ppm VOCs: 0.0045 ppm PAHs: 23.1 ppm SVOCs: 23.418 ppm		SB-43 (10-12') Fingerprint - Coal Tar/Creosote BTEX: 3,632 ppm VOCs: 3,852 ppm PAHs: 90,880 ppm SVOCs: 93,560 ppm															
SB-44	Block 2598/Lot 1 Commercial Cleaner	Block 2598/Lot 1 Commercial Cleaner	02/19/14 02/20/14	5	21	Fill. Sand, gravel, bricks. PID=63.7 (@ 2ft) faint MGP odor	Fill. Sand, gravel, bricks. PID=662 MGP Product coating. Strong odors	Fill. Silts, sands, gravel, and bricks. PID=1502 MGP Product coating. Strong odors	Fill. Silts, sands, gravel, and bricks. PID=2620 MGP Product. Strong odors												MGP Impacts. Coal tar.		
						SB-44 (1.5-2.0') BTEX: 0.0233 ppm VOCs: 0.0797 ppm PAHs: 73.48 ppm SVOCs: 77.82 ppm		SB-44 (10-12') BTEX: 13,700 ppm VOCs: 15,025 ppm PAHs: 20,238 ppm SVOCs: 20,453.35 ppm	SB-44 (15-20') Fingerprint - Coal Tar/Creosote BTEX: 7,190 ppm VOCs: 8,190 ppm PAHs: 146,280 ppm SVOCs: 148,861 ppm														
MW-01	East 140th Street	Block 2591/Lot 46 Paper Enterprises	3/24/10 3/26/10	5	35	Fill PID=1.2 No odor.	Fill. Cinders, silts, sands and gravel. PID=0.0 No odor.	Silts, sands and gravel @ 10-13'. PID=4.9 @ 10-13' moderate petroleum-like odor. Slight sheen PID=2.2 @ 13' in gray clay. No odor.	Gray clay @ 15-20'. PID=3.6 @ 15-15.5' Slight naphthalene like odor PID=12.8 @ 15.5-20' Sulfur odor.	Gray clay. PID=30 Strong sulfur odor.	Gray clay. PID=25-42 Strong sulfur odor.	Gray clay and silty sand. Bottom of boring 35'. PID=18. Sulfur odor in clay									No product or sheen in well. Well MW-01 screen 3-13'. Sump 13 - 15'. MGP impacts. Naphthalene and petroleum odors.		
						MW-01 (3.4-4') BTEX: 0.0028 ppm VOCs: 0.0028 ppm PAHs: 0.707 ppm SVOCs: 0.837 ppm		MW-01 (11-12') Fingerprint - Similarities w/ CC & CO tars BTEX: 2.45 ppm VOCs: 2,516 ppm PAHs: 1,254 ppm SVOCs: 1,341.11 ppm	MW-01 (16.5-18') BTEX: ND VOCs: 0.0165 ppm PAHs: 4.271 ppm SVOCs: 4.59 ppm														
						MW-01 (4.5-5') BTEX: ND VOCs: .0052 ppbm PAHs: 1.477 ppm SVOCs: 1.577 ppm																	
MW-02	East 139th Street	Upgradient	4/14/2010 4/30/2010	4.8	35	Fill PID=2.8 Faint petroleum odor at 4.8'	Sand and gravel. PID=36.2. Moderate petroleum odor.	Sand, silt and gravel. PID=0.2. No odor.	Sand, silt and gravel. PID=0.3 Sulfur odor.	Sand, silt and gravel. Gray clay at 20.5'. PID=135 Strong sulfur odor.	Gray clay. PID=135 Strong sulfur odor.	Gray clay and peat. PID=137 Strong sulfur odor.								Well screen 3.5-13.5. Sump 13.5-15.5. Petroleum odors.			
						MW-02 (3.5-4.5') BTEX: ND VOCs: 0.0079 ppm PAHs: 3.629 ppm SVOCs: 3.723 ppm	MW-02 (5.5-6') BTEX: 0.0078 ppm VOCs: 0.0778 ppm PAHs: 2.365 ppm SVOCs: 2.785 ppm	MW-02 (12-12.5') BTEX: ND VOCs: 0.028 ppm PAHs: ND SVOCs: ND															
MW-03	East 141st Street	Block 2592/Lot 35 Colonial Steel	4/15/2010 4/19/2010	6.75	30	Fill. PID=0.9 No odor.	Silts, sands and gravels. PID=29.6 Strong petroleum odor 6-7'	Sands, gravels and silt. PID=2.1 Faint petroleum odor 10- 12'.	No recovery.	Gray clay. PID=23.3. Faint to strong sulfur odor.	Gray clay. PID=8.2. Moderate sulfur odor.										Well screen 4-14'. Sump 14 to 16'. Petroleum odors.		
						MW-03 (3.5-4.5') BTEX: ND VOCs: ND PAHs: 2.244 ppm SVOCs: 2.385 ppm	MW-03 (6-7') Fingerprint - Similarities w/ No. 4/5/6 Fuel Oils BTEX: 0.660 ppm VOCs: 4.156 ppm PAHs: 52.42 ppm SVOCs: 55.12 ppm	MW-03 (14-15') BTEX: ND VOCs: 0.0051 ppm PAHs: ND SVOCs: 0.084 ppm															

Table 3-3
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Bronx, NY

Boring/ Well/ Pit #	Street Location	Block/Lot #	Date(s) Drilled / Constr.	Water Table (feet bgs)	Bottom of Boring (feet bgs)	Boring Observations											Comments/ Impacts	
						0-5'	5-10'	10-15'	15-20'	20-25'	25-30'	30-35'	35-40'	40-45'	45-50'	50-55'		55-60'
MW-04	East 140th Street	Block 2598/Lot 62 Machine Shop	4/16/2010 4/20/2010	3.5	25	Fill. PID=96.7 Strong petroleum odor. MW-04 (3.5-4.5'), dup BTEX: 0.0064 ppm VOCs: 0.4834 ppm PAHs: 20.132 ppm SVOCs: 20.604 ppm	Sands, gravels and silt. PID=7.9 Moderate petroleum odor 5-6'. MW-04 (8.5-9.5') BTEX: ND VOCs: 0.0067 ppm PAHs: ND SVOCs: ND	Sands and silt over peat over gray silt and clay. PID=52.8. Strong sulfur odor in peat silt and clay.	Silt and sand over micaceous silty sand. PID=1.9 Faint sulfur odor in upper silt and sand.	No recovery. Running sand.								Well screen 3-13'. Sump 13 to 15'. Petroleum odors.
MW-05	East 138th Street	Block 2598/Lot 1 Commercial Cleaner	4/26/2010 5/4/2010	4.9	21 - refusal	Fill. PID=32.3. Moderate to strong naphthalene-like odor 4.5'. Slight sheen. MW-05 (3-3.5') BTEX: ND VOCs: ND PAHs: 143.68 ppm SVOCs: 145.727 ppm MW-05 (4.5-5') Fingerprint - Similarities w/ CWG tars BTEX: 0.611 ppm VOCs: 0.7576 ppm PAHs: 113.1 ppm SVOCs: 114.99 ppm	Silts, sands and gravel. PID=105 Strong naphthalene odor 5-6.5'. Sheen.	Silts, sands and gravel. PID=230 Moderate to strong naphthalene odor 14-16' Sheen.	Silts, sands and gravel. PID=1200 Strong naphthalene odor. Sheen.	Silts, sands and gravel. Refusal at 21'. PID=950. Strong naphthalene odor. DNAPL, Sheen.								Well screen 3-20.5'. 3-inch bottom sump. MGP impacts. Sheen and naphthalene odors.
MW-06	Locust Avenue	Block 2598/Lot 1 Commercial Cleaner	5/5/2010 5/12/2010	5.5	11 - refusal	Fill. PID=0.4 No odor. MW-06 (4-4.5') BTEX: ND VOCs: ND PAHs: 4.714 ppm SVOCs: 4.745 ppm	Silts, sands and gravel. PID=176 Strong naphthalene odor 6.5'. Sheen.	Silts, sands and gravel. Refusal at 11'. Weathered bedrock. PID=190 Strong naphthalene odor. Sheen 10.5'. MW-06 (10.5-11') Fingerprint - Similarities w/ CC & CWG tars BTEX: 73.981 ppm VOCs: 76.15 ppm PAHs: 799.4 ppm SVOCs: 817.42 ppm										Well screen 3-10'. 2-inch bottom sump. MGP impacts. Sheen and naphthalene odors.
MW-07-URS	East 138th Street	Block 2597/Lot 1 Castle Port Morris	12/15/2011 12/16/2011	6	10.5	Fill. PID=0.1 No odor. MW-07 (4-4.5') BTEX: ND VOCs: 0.00091 ppm PAHs: 3.852 ppm SVOCs: 5.328 ppm	Silts, sands and gravel. PID=34 Faint petroleum odor. MW-07 (9.8-10.5') BTEX: ND VOCs: 0.049 ppm PAHs: 0.553 ppm SVOCs: 2.173 ppm											Well screen 4.6-9.6'. Sump 9.6 to 10'.
MW-11	East 140th Street	Block 2592/Lot 35 Colonial Steel	1/7/2011 1/19/2011	5	25	Fill. PID=0.4 No odor. MW-11 (3.5-4.5') BTEX: 0.003 ppm VOCs: 0.0254 ppm PAHs: 11.202 ppm SVOCs: 11.836 ppm	Silts, sands and gravel. PID=0.0 No odor. MW-11 (5-6') BTEX: ND VOCs: 0.0107 ppm PAHs: 16.44 ppm SVOCs: 17.209 ppm	Silts, sands and gravel.	No Recovery. Sample liquid and ran out of spoon. NA NA MW-11 (20-21') BTEX: ND VOCs: 0.031 ppm PAHs: 0.169 ppm SVOCs: 0.169 ppm	Clay PID=8.9 Sulfur odor.							Well screen 3-13'. Sump 13 to 15'.	
BW-01	East 139th Street	Block 2598/Lot 46 Murray Feiss	1/31/2012 2/3/2012	4	34	Fill. Silts and sands PID=0.8 No odor.	sands, silts, and gravel. Trace organics. PID=0.4 sulfur odor in organics.	Sands and silt. PID=0.4 No odor.	Sands, silts, and gravel. Gray gneiss starting at 19'. PID=30.6 Naphthalene odor in rock fractures.	Gray gneiss. PID=1.3 Naphthalene-like odor and DNAPL coatings.	Gray gneiss. PID=44.5 DNAPL coated core. LNAPL in drill water.	Gray gneiss. PID=44.5 DNAPL coated core. LNAPL in drill water.						Well screen 22-32'. Sump 32 to 34'. MGP Impacts. Naphthalene odor and tar coatings.
BW-02	East 139th Street	Block 2598/Lot 46 Murray Feiss	1/31/2012 2/2/2012	3	49	Fill. Silts, sands, gravel, brick. PID = 225 Petroleum odor 0.8-5' Naphthalene odor below 5'.	Fill. To 8.5' silts sands, gravel Sand and gravel 8.5-10' PID=1047 Strong naphthalene odor. Sheen.	Silt and peat-like vegetation PID=300 Undifferentiated chemical odor.	Silts, sands, and gravel PID = 77 Faint naphthalene-like odor.	Silts, sands, and gravel PID = 17.1 Faint naphthalene-like odor.	Silts, sands, and gravel sized weathered gray schist bedrock. PID = 73.7 Faint naphthalene-like odor.	Gray schist starting at 31' PID = 2 Faint naphthalene-like odor @ 31'.	No core sample; rollerbit drilling. PID = 0 No sheen or odor.	Gray gneiss, banded. PID = 4.5 LNAPL in drill water at 40'. DNAPL and naphthalene-like odor 39-40' in fractures.	Gray gneiss, banded. PID = 4.5 LNAPL sheen at 47'; DNAPL and naphthalene-like odor 45' in fractures.			Well screen 37-47'. Sump 47 to 49'. MGP Impacts. Naphthalene odor and tar coatings.

Table 3-3
Summary and Qualitative Observations in Overburden Soil Borings, Monitoring Wells at Consolidated Edison East 138th Street Former MGP Site
Bronx, NY

Boring/ Well/ Pit #	Street Location	Block/Lot #	Date(s) Drilled / Constr.	Water Table (feet bgs)	Bottom of Boring (feet bgs)	Boring Observations										Comments/ Impacts		
						0-5'	5-10'	10-15'	15-20'	20-25'	25-30'	30-35'	35-40'	40-45'	45-50'		50-55'	55-60'
BW-03	Rose Feiss Blvd.	Block 2598/Lot 46 Murray Feiss	1/26/2012	5	58	Fill. To approx. 4'. then Sands, silts, gravel. PID = 1.4 Faint petroleum odor.	Sands, silts, gravel. PID = 1.4 Faint petroleum odor.	Sands, silts, and gravel. PID=118.1 moderate naphthalene odor 10.5-12.5'. Strong sulfur odor 12.5-15'.	Silts and sands. PID = 118.1 Strong Sulphur odor.	No samples collected. PID = NA No sheen, LNAPL, or odors in drill water.	No samples collected. PID = NA No sheen, LNAPL, or odors in drill water.	Roller-bit refusal at 34.5'. Start rock coring. PID = NA No sheen, LNAPL, or odors in drill water.	Weathered gray schist mixed with silt and gravel. PID =7.1 Faint naphthalene odor at 38'.	Gray banded gneiss; Qz-rich. PID =7.1 Faint naphthalene odor at 38'.	Gray foliated schist. PID =0.0 No odor.	Gray foliated schist. PID =0.0 No odor.	Gray banded gneiss. PID =0.0 No odor.	Well screen 46-56'. Sump 56 to 58'. MGP Impacts. Naphthalene odor and tar coatings.
			2/2/2012															
BW-04	East 140th Street	Block 2598/Lot 46 Murray Feiss	1/25/2012 2/1/2012	4	39.5	Fill. Silts, sands, gravel. PID = 106 Moderate petroleum odor below 4'.	Fill. Silt, sand, gravel. To 5.5'. Then Sand and gravel. PID = 108 Petroleum odor to ~7.5' then no odor.	Sands, silts, and gravel. PID = 0.0 No odor.	Sands, silts, and gravel. PID = 0.0 No odor.	No samples collected. Rollerbit refusal at 24.5' PID = 0.0 No sheen, LNAPL, or odors in drill water.	Gray gneiss. PID = 0.2 No sheen, LNAPL, or odors in drill water.	Gray banded gneiss. PID = 0.2 No sheen, LNAPL, or odors in drill water.	Gray banded gneiss. PID = 0.0 No sheen, LNAPL, or odors in drill water.					Well screen 27.5-37.5'. Sump 37.5 to 39.5'. Petroleum odors.

TABLE 3-4
East 138th Street Works Site
Summary of Field Observations and Measurements by Block and Lot

EAST 138th STREET WORKS FORMER MGP SITE								
Block	Lot	Former MGP Structures/ Targets	Boring Summary					
			Boring ID	Boring Position Relative to Target	PID Range (ppm)	Staining	NAPL	Comment/ Impact
Block 2592	Lot 35	Anthracite Coal Storage	MW-03	Adjacent Sidewalk	0.9 to 29.6	None	LNAPL (1.3-2.2')	Well screen 4-14'. Sump 14 to 16'; Petroleum Odors.
		Shavings Storage						
		Brick & Cement Shed	SB-06	Adjacent Sidewalk	0.0 to 1.3	None	None	None.
		Brick Shed						
		Storage Sheds						
Block 2598	Lot 66	Brick Shed	MW-04	Adjacent Sidewalk	1.9 to 96.7	None	None	Well screen 3-13'. Sump 13 to 15'; Petroleum Odors.
	Lot 62	Brick Shed						
	Lot 46	Store Houses	BW-04	Adjacent Sidewalk	0.0 to 108	None	None	Well screen 27.5-37.5'. Sump 37.5 to 39.5'; Petroleum Odors.
		Shavings Scrubber House						
		Gas Holder #4 (2,630,000 cu. Ft.)	BW-02	Adjacent Sidewalk	0.0 to 73.7	Tar Coatings 39-45'	DNAPL Coatings	Well screen 37-47'. Sump 47 to 49'; MGP Impacts. Naphthalene odor and tar coatings at 39-45'.
			BW-03	Adjacent Sidewalk	0.0 to 118.1	None	None	Well screen 46-56'. Sump 56 to 58'; MGP Impacts. Naphthalene odor and tar coatings.
	Water Gas Purifying House	BW-01	Adjacent Sidewalk	0.4 to 44.5	Tar coatings 20-35'	2' DNAPL in sump	Well screen 22-32'. Sump 32 to 34'; MGP Impacts. Naphthalene odor and tar coatings at 20-35'.	
Block 2591	Lot 46	Fuel Oil UST (230 gal.)	SB-34	Near Footprint	0.0 to 11.1	None	None	No Impacts.
		Gasoline UST (550 gal.)	MW-01	Adjacent Sidewalk	0.0 to 42	Sheen @ 10-13'	None	No product or sheen in well; Well MW-01 screen 3-13'. Sump 13 - 15'; MGP impacts; Naphthalene and petroleum odors.
		Spare Parts						
		Pipe Racks						
		Lumber Shed	SB-32	Adjacent Sidewalk	0.0 to 9.0	None	None	MGP impacts. Naphthalene odor.
		Gasoline UST	SB-33	Near Footprint	0.0 to 13.8	None	None	Ammonia odor.
		Garage (Storage House)	SB-35	Within Footprint	0.0 to 0.0	None	None	No Impacts.
		Office	SB-05	Adjacent Sidewalk	0.0 to 35	None	None	Undifferentiated chemical odors.
		Coal Shed						
		Brick and Cement Shed	SB-04	Adjacent Sidewalk	0.7 to 97.3	None	None	No Impacts.
		Coal Storage	SB-02	Adjacent Sidewalk	0.0 to 85.5	Coating at 4.7-7.3'	LNAPL Coating	Petroleum impacts at water table.
			SB-03	Adjacent Sidewalk	0.0 to 41.2	Coating at 4.5-6.5'	LNAPL Coating	Petroleum impacts at water table.
			SB-36	Adjacent Sidewalk	0.0 to 1.6	None	None	No Impacts.
			SB-37	Near Footprint	0.0 to 138	None	None	Petroleum odors.
			SB-38	Within Footprint	1.3 to 13.4	Sheen at 10-15'	None	MGP impacts. Naphthalene odor and petroleum sheen.
SB-39	Adjacent Sidewalk		0.0 to 85.6	None	None	Petroleum odors.		
SB-40	Within Footprint		0.0 to 61.8	None	None	Petroleum odors.		
MW-11	Adjacent Sidewalk		0.0 to 8.9	None	None	Well screen 3-13'. Sump 13 to 15'.		
Waste, Oil & Misc. Storage	SB-01	Adjacent Sidewalk	0.0 to 4.7	None	None	Petroleum impacts at water table.		

TABLE 3-4
East 138th Street Works Site
Summary of Field Observations and Measurements by Block and Lot

EAST 138th STREET WORKS FORMER MGP SITE								
Block	Lot	Former MGP Structures/ Targets	Boring Summary					
			Boring ID	Boring Position Relative to Target	PID Range (ppm)	Staining	NAPL	Comment/ Impact
Block 2590	Lot 51	Machine Storage	Not Accessible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable.
		Paint Storage						
		Wagons						
		Autos						
		Brick Storage						
		Paint Shop						
		Carpenter						
		Lumber Storage/Print Shop						
		Rigger Shed						
		Machinery Storage						
		Formite Engine						
		Water Gas Meter House	SB-09	Adjacent Sidewalk	0.4 to 6.1	None	None	No Impacts.
		Cement Storage						
		Calorimeter House						
		Laboratory	SB-12	Adjacent Sidewalk	1.6 to 2.6	None	None	Petroleum Odor.
		Tar Tank in Pits (24,000 gal.)						
		Waste Storage						
		Locker & Mess Hall	SB-11	Adjacent Sidewalk	0.4 to 2.2	None	None	Undifferentiated chemical odor.
Pump House								
Tar AST (20,000 gal.)								
Oil Tank #1 (250,000 gal.)								
Drip Oil AST (9,000 gal.)								
Drip Oil AST (11,000 gal.)								
Drip Oil AST								

TABLE 3-4
East 138th Street Works Site
Summary of Field Observations and Measurements by Block and Lot

EAST 138th STREET WORKS FORMER MGP SITE									
Block	Lot	Former MGP Structures/ Targets	Boring Summary						
			Boring ID	Boring Position Relative to Target	PID Range (ppm)	Staining	NAPL	Comment/ Impact	
Block 2598	Lot 1	Coal Gas Purifier Boxes & Houses	SB-14	Adjacent Sidewalk	0.4 to 1.2	None	None	No Impacts.	
		Water Gas Purifying House	Not Accessible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable.	
		Ammonia/Tar Well							
		Machine Shop	SB-07	Adjacent Sidewalk	0.8 to 742	Sheen at 15-20'	None	MGP Impacts. Naphthalene odor and sheen.	
		Coal Scrubber/Gas Condenser House							
		Water Gas Plant							
		Exhaust Engine House	SB-17	Adjacent Sidewalk	47.3 to 898	None	None	MGP Impacts. Naphthalene odor.	
		Boilerhouse							
		Tar Well (8,037 gal.)							
		Tar Well #2 (1,600 gal.)	SB-44	Within Footprint	63.7 to 2620	Tar Coating at 5-15'	Coal Tar Product at 15-20'	MGP Impacts. Coal tar.	
		Gas Holder #1 (300,000 cu. ft.) Relief Holder							
			MW-06	Adjacent Sidewalk	0.4 to 190	Sheen at 6.5-10.5'	None	Well screen 3-10'. 2-inch bottom sump. MGP impacts. Sheen and naphthalene odors.	
			SB-43	Calorimeter House	Adjacent Sidewalk	0.0 to 603	None	Coal Tar Product at 5-15'	MGP Impacts. Coal tar.
				Pump House	Within Footprint				
				Gas Holder #2 (75,000 cu. ft.)					
				Ammonia AST #3 (62,200 gal.)	Adjacent Sidewalk				
			Ammonia AST #1	SB-15	Adjacent Sidewalk	21.2 to 284	Sheen at 15-25'	None	MGP Impacts. Naphthalene odor and sheen.
			Ammonia AST #2 (60,000 gal.)						
			Yard Drip Separator						
			Proposed Separator	SB-10	Adjacent Sidewalk	0.6 to 5.6	None	None	No Impacts.
	Gas Holder #3 (576,000 cu. ft.)/ Gas Oil Storage Tank #2 (426,000 gal.)								
		SB-13	Adjacent Sidewalk						
		SB-41	Within Footprint	0.2 to 2.4	None	None	Fill.		
	Salt Water Condenser/ Gas Holders	MW-05	Adjacent Sidewalk	32.3 to 1200	Sheen at 0-20'	Blebs at 20-25'	Well screen 3-20.5'. 3-inch bottom sump. MGP impacts. Sheen and naphthalene odors.		
	Governor House/Valve House	SB-16	Adjacent Sidewalk	0.4 to 450	None	None	MGP Impacts. Naphthalene odor.		
	Coal Gas Meter House	SB-08	Adjacent Sidewalk	215 to 256	Sheen at 10-15'	None	MGP Impacts. Naphthalene odor and sheen.		
	Water Gas Saltwater/Condensers		Adjacent Sidewalk						

TABLE 3-4
East 138th Street Works Site
Summary of Field Observations and Measurements by Block and Lot

EAST 138th STREET WORKS FORMER MGP SITE								
Block	Lot	Former MGP Structures/ Targets	Boring Summary					
			Boring ID	Boring Position Relative to Target	PID Range (ppm)	Staining	NAPL	Comment/ Impact
Block 2597	Lot 1	Generator House	SB-18	Adjacent Perimeter	0.8 to 1.8	None	None	No Impacts.
		Engine Room/Retort House						
		Chimneys						
		Boilers						
		Tar Well						
		Tar Well (Underground)	Not Accessible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable.
		Oil Tank #1						
		Coal Hoist & Tower						
		Pump House						
		Office	SB-19	Adjacent Sidewalk	21.7 to 37.6	None	None	Petroleum odor.
		Office and Shop						
		Blacksmith & Storage Shed						
		Coke Pockets	SB-20	Adjacent Perimeter	2.4 to 18.4	None	None	Petroleum odor.
		Retort House	SB-22	Adjacent Perimeter	0.3	None	None	No Impacts.
		Tank House						
		Coal Yard						
		Rail Spur/Tank House	SB-21	Adjacent Perimeter	0.1 to 35.8	Tar Coating at 20-25'	Tar Coatings	MGP Impacts. Naphthalene odor.
Tar Tanks	Adjacent Perimeter							
Coal Pocket	MW-07-URS	Adjacent Perimeter	0.1 to 34	None	None	Well screen 4.6-9.6'. Sump 9.6 to 10'.		
Electric House								
Ash Pocket								

LNAPL - Light Non-Aqueous Phase Liquid
 DNAPL - Dense Non-Aqueous Phase Liquid

TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				BW-03	MW-01	MW-01	MW-01	MW-01
Sample ID				BW-03-(38.5-39.5)	MW-01-(3.4-4)	MW-01-(4.5-5)	MW-01-(11-12)	MW-01-(16.5-18)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				38.5-39.5	3.4-4.0	4.5-5.0	11.0-12.0	16.5-18.0
Date Sampled				01/26/12	03/24/10	03/24/10	03/26/10	03/26/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.0055 J		0.0052 J	0.030 J	0.0088 J
Benzene	MG/KG	0.06	44	0.034			0.32	
Carbon disulfide	MG/KG	2.7 CP-51	-					0.0077
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390	0.0055			0.34	
Isopropylbenzene	MG/KG	2.3 CP-51	-				0.036 J	
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500				0.39	
Xylene (total)	MG/KG	0.26	500	0.0024	0.0028		1.4 J	
Total BTEX	MG/KG	-	-	0.0419	0.0028	ND	2.45	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.0474	0.0028	0.0052	2.516	0.0165

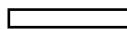
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

Blank cell or ND - Not detected. NA - Not analyzed.

J - The reported concentration is an estimated value. J+ - The reported concentration is an estimated value, with high bias.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

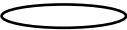
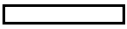
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				BW-03	MW-01	MW-01	MW-01	MW-01
Sample ID				BW-03-(38.5-39.5)	MW-01-(3.4-4)	MW-01-(4.5-5)	MW-01-(11-12)	MW-01-(16.5-18)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				38.5-39.5	3.4-4.0	4.5-5.0	11.0-12.0	16.5-18.0
Date Sampled				01/26/12	03/24/10	03/24/10	03/26/10	03/26/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-				14	0.039 J
2,4-Dimethylphenol	MG/KG	-	-				0.50 J	
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-				34 J	0.073 J
2-Methylphenol (o-cresol)	MG/KG	0.33	500				0.29 J	
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500				0.73 J	
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500				52	0.18 J
Acenaphthylene	MG/KG	100	500			0.062 J	23	0.064 J
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500			0.030 J	59	0.21
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6		0.091 J	0.16 J	62	0.23
Benzo(a)pyrene	MG/KG	1	1		0.067 J	0.14 J	49	0.18 J
Benzo(b)fluoranthene	MG/KG	1	5.6		0.077 J	0.19 J	59	0.21
Benzo(g,h,i)perylene	MG/KG	100	500				41	
Benzo(k)fluoranthene	MG/KG	0.8	56		0.034 J	0.065 J	20	0.070 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.11 J	0.13 J	0.10 J		0.054 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-				26	0.066 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				BW-03	MW-01	MW-01	MW-01	MW-01
Sample ID				BW-03-(38.5-39.5)	MW-01-(3.4-4)	MW-01-(4.5-5)	MW-01-(11-12)	MW-01-(16.5-18)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				38.5-39.5	3.4-4.0	4.5-5.0	11.0-12.0	16.5-18.0
Date Sampled				01/26/12	03/24/10	03/24/10	03/26/10	03/26/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56		0.087 J	0.18 J	50	0.17 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56			0.032 J	21 J	0.044 J
Dibenzofuran	MG/KG	7	350				45	0.16 J
Di-n-butylphthalate	MG/KG	0.014 CP-51	-	0.065 J				
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500		0.14 J	0.23	120	0.40
Fluorene	MG/KG	30	500				51	0.19 J
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6				33 J	
Naphthalene	MG/KG	12	500	0.084 J			270	1.1
Phenanthrene	MG/KG	100	500		0.051 J	0.078 J	190	0.73
Phenol	MG/KG	0.33	500	0.065 J			0.59 J	
Pyrene	MG/KG	100	500		0.16 J	0.31	120	0.42
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	0.084	0.707	1.477	1,254	4.271
Total Semivolatile Organic Compounds	MG/KG	-	-	0.324	0.837	1.577	1,341.11	4.59
Metals								
Aluminum	MG/KG	10000 CP-51	-	7,310	14,000	5,550	5,040	10,200
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16		3.0	4.0	5.6	6.2
Barium	MG/KG	350	400	93.7	80.7 J	39.4 J	35.5 J	21.8 J
Beryllium	MG/KG	7.2	590	0.54	1.0 J	0.52 J	0.41 J	0.72 J
Cadmium	MG/KG	2.5	9.3		0.24 J	0.34	0.61	0.44

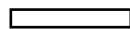
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				BW-03	MW-01	MW-01	MW-01	MW-01
Sample ID				BW-03-(38.5-39.5)	MW-01-(3.4-4)	MW-01-(4.5-5)	MW-01-(11-12)	MW-01-(16.5-18)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				38.5-39.5	3.4-4.0	4.5-5.0	11.0-12.0	16.5-18.0
Date Sampled				01/26/12	03/24/10	03/24/10	03/26/10	03/26/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	10,400	2,010 J	156,000 J	2,200 J	2,170 J
Chromium	MG/KG	30	1500	26.5	25.0	13.0	10.8 J	20.9 J
Cobalt	MG/KG	20 CP-51	-	3.8	10.0 J	5.2 J	5.2 J	7.5 J
Copper	MG/KG	50	270	19.5	16.4 J	17.0 J	28.9	10.9
Iron	MG/KG	2000 CP-51	-	15,200	25,500	20,400	29,700	24,600
Lead	MG/KG	63	1000	5.2	51.3 J	29.5 J	20.6 J	10.1 J
Magnesium	MG/KG	-	-	9,500	4,170	7,920	2,450 J	4,930 J
Manganese	MG/KG	1600	10000	175	479 J	439 J	161 J	253 J
Mercury	MG/KG	0.18	2.8		0.045	0.10	0.053	0.019 J
Nickel	MG/KG	30	310	14.9	18.4 J	9.8 J	10.1 J	16.9 J
Potassium	MG/KG	-	-	4,680	1,120	841	694	2,190
Selenium	MG/KG	3.9	1500		2.4		1.4	1.0 J
Silver	MG/KG	2	1500			0.073 J		
Sodium	MG/KG	-	-	570	144	135	1,090	2,800
Thallium	MG/KG	5 CP-51	-	0.48 J	2.2		0.30 J	0.86
Vanadium	MG/KG	39 CP-51	-	28.1	32.2	15.5	11.7 J	25.5 J
Zinc	MG/KG	109	10000	35.8	52.3 J	48.3 J	39.9 J	48.3 J

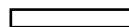
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**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				MW-02	MW-02	MW-02	MW-03	MW-03
Sample ID				MW-02-(3.5-4.5)	MW-02-(5.5-6)	MW-02-(12-12.5)	MW-03-(3.5-4.5)	MW-03-(6-7)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.5	5.5-6.0	12.0-12.5	3.5-4.5	6.0-7.0
Date Sampled				04/14/10	04/30/10	04/30/10	04/15/10	04/19/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.0079 J	0.057 J	0.028 J		0.061 J
Benzene	MG/KG	0.06	44					0.31
Carbon disulfide	MG/KG	2.7 CP-51	-		0.013			0.015 J
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					0.036
Isopropylbenzene	MG/KG	2.3 CP-51	-					2.4 J
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					1.0 J
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					0.020
Toluene	MG/KG	0.7	500		0.0078 J			0.024
Xylene (total)	MG/KG	0.26	500					0.29 J
Total BTEX	MG/KG	-	-	ND	0.0078	ND	ND	0.66
Total Volatile Organic Compounds	MG/KG	-	-	0.0079	0.0778	0.028	ND	4.156

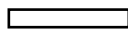
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TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-02	MW-02	MW-02	MW-03	MW-03
Sample ID				MW-02-(3.5-4.5)	MW-02-(5.5-6)	MW-02-(12-12.5)	MW-03-(3.5-4.5)	MW-03-(6-7)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.5	5.5-6.0	12.0-12.5	3.5-4.5	6.0-7.0
Date Sampled				04/14/10	04/30/10	04/30/10	04/15/10	04/19/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-					
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-		0.087 J			14 J
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500		0.044 J			1.0 J
Acenaphthylene	MG/KG	100	500	0.055 J	0.11 J		0.12 J	
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500	0.11 J	0.044 J		0.047 J	1.7 J
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	0.39	0.24		0.20	1.9 J
Benzo(a)pyrene	MG/KG	1	1	0.27 J	0.20 J		0.21 J	1.5 J
Benzo(b)fluoranthene	MG/KG	1	5.6	0.31 J	0.31 J		0.20 J	1.8 J
Benzo(g,h,i)perylene	MG/KG	100	500	0.25 J	0.099 J		0.24 J	0.88 J
Benzo(k)fluoranthene	MG/KG	0.8	56	0.13 J	0.11 J		0.15 J	0.90 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.069 J	0.39		0.12 J	1.1 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	0.025 J				

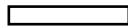
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SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-02	MW-02	MW-02	MW-03	MW-03
Sample ID				MW-02-(3.5-4.5)	MW-02-(5.5-6)	MW-02-(12-12.5)	MW-03-(3.5-4.5)	MW-03-(6-7)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.5	5.5-6.0	12.0-12.5	3.5-4.5	6.0-7.0
Date Sampled				04/14/10	04/30/10	04/30/10	04/15/10	04/19/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	0.33	0.34		0.21	3.1 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.049 J	0.029 J		0.040 J	
Dibenzofuran	MG/KG	7	350					
Di-n-butylphthalate	MG/KG	0.014 CP-51	-		0.030 J		0.021 J	1.6 J
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	0.65	0.024 J		0.29	4.0 J
Fluorene	MG/KG	30	500	0.035 J	0.10 J			4.0 J
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.17 J	0.084 J		0.15 J	0.64 J
Naphthalene	MG/KG	12	500		0.064 J		0.021 J	
Phenanthrene	MG/KG	100	500	0.36	0.11 J		0.096 J	10 J
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	0.52	0.37		0.27	7.0 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	3.629	2.365	ND	2.244	52.42
Total Semivolatile Organic Compounds	MG/KG	-	-	3.723	2.785	ND	2.385	55.12
Metals								
Aluminum	MG/KG	10000 CP-51	-	9,900 J	9,510	7,030	8,670 J	10,000
Antimony	MG/KG	12 CP-51	-	1.4 J	2.0			
Arsenic	MG/KG	13	16	3.6	1.3	1.2	2.1	0.78 J
Barium	MG/KG	350	400	125 J	88.8	42.3	72.1 J	53.8 J
Beryllium	MG/KG	7.2	590	0.86 J		0.29 J	0.84 J	1.0 J
Cadmium	MG/KG	2.5	9.3	0.38	0.34	0.11 J	0.34	0.088 J

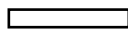
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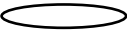
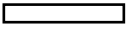
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				MW-02	MW-02	MW-02	MW-03	MW-03
Sample ID				MW-02-(3.5-4.5)	MW-02-(5.5-6)	MW-02-(12-12.5)	MW-03-(3.5-4.5)	MW-03-(6-7)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.5	5.5-6.0	12.0-12.5	3.5-4.5	6.0-7.0
Date Sampled				04/14/10	04/30/10	04/30/10	04/15/10	04/19/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	37,400 J	27,000 J	1,110 J	4,400 J	2,430
Chromium	MG/KG	30	1500	25.7 J	17.4	12.7	22.3 J	34.4 J
Cobalt	MG/KG	20 CP-51	-	7.6 J	8.7	6.7	9.9 J	7.4 J
Copper	MG/KG	50	270	34.8 J	101	13.1	49.2 J	51.7
Iron	MG/KG	2000 CP-51	-	20,200	24,500	18,800	19,900	19,000
Lead	MG/KG	63	1000	59.3 J	90.5	8.9	41.3 J	8.5
Magnesium	MG/KG	-	-	6,560 J	12,000	2,600	5,400 J	4,270 J
Manganese	MG/KG	1600	10000	236 J	318	1,000	291 J	134 J
Mercury	MG/KG	0.18	2.8	0.019 J	0.092		0.16 J	
Nickel	MG/KG	30	310	19.1 J	18.2	12.2	19.1 J	22.2 J
Potassium	MG/KG	-	-	4,420 J	3,870 J	961 J	3,010 J	2,000
Selenium	MG/KG	3.9	1500	1.6	3.2	1.8	1.9	2.5
Silver	MG/KG	2	1500				0.070 J	0.11 J
Sodium	MG/KG	-	-	452 J	343	175	123 J	291 J
Thallium	MG/KG	5 CP-51	-	1.2			1.8	
Vanadium	MG/KG	39 CP-51	-	36.0 J	34.8	20.9	28.2 J	29.2
Zinc	MG/KG	109	10000	87.7 J	145 J	31.4 J	115 J	213 J

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SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-03	MW-04	MW-04	MW-04	MW-05
Sample ID				MW-03-(14-15)	MW-04-(3.5-4.5)	MW-04-(3.5-4.5)	MW-04-(8.5-9.5)	MW-05-(3-3.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	3.5-4.5	3.5-4.5	8.5-9.5	3.0-3.5
Date Sampled				04/19/10	04/16/10	04/16/10	04/20/10	04/26/10
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
				Volatile Organic Compounds				
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.0051 J	0.020 J	0.012 J	0.0067 J	
Benzene	MG/KG	0.06	44					
Carbon disulfide	MG/KG	2.7 CP-51	-					
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-		0.16 J	0.10 J		
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-		0.28 J	0.17 J		
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-		0.017 J			
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500					
Xylene (total)	MG/KG	0.26	500			0.0064 J		
Total BTEX	MG/KG	-	-	ND	ND	0.0064	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.0051	0.477	0.2884	0.0067	ND

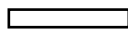
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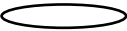
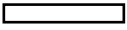
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-03	MW-04	MW-04	MW-04	MW-05
Sample ID				MW-03-(14-15)	MW-04-(3.5-4.5)	MW-04-(3.5-4.5)	MW-04-(8.5-9.5)	MW-05-(3-3.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	3.5-4.5	3.5-4.5	8.5-9.5	3.0-3.5
Date Sampled				04/19/10	04/16/10	04/16/10	04/20/10	04/26/10
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
				Semivolatile Organic Compounds				
1,1'-Biphenyl	MG/KG	60 CP-51	-					
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-		9.2 J	10 J		0.27
2-Methylphenol (o-cresol)	MG/KG	0.33	500					0.024 J
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					0.044 J
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500		0.43 J			2.2
Acenaphthylene	MG/KG	100	500		0.31 J			1.8
Acetophenone	MG/KG	-	-					0.12 J
Anthracene	MG/KG	100	500		0.43	0.17 J		3.7 J
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6		0.14 J	0.22		17
Benzo(a)pyrene	MG/KG	1	1		0.10 J	0.13 J		2.5
Benzo(b)fluoranthene	MG/KG	1	5.6		0.14 J	0.16 J		17
Benzo(g,h,i)perylene	MG/KG	100	500		0.22	0.099 J		7.7
Benzo(k)fluoranthene	MG/KG	0.8	56		0.060 J	0.066 J		2.7
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.084 J	0.044 J	0.052 J		0.31
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-					1.1

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EAST 138th STREET WORKS SITE

Location ID				MW-03	MW-04	MW-04	MW-04	MW-05
Sample ID				MW-03-(14-15)	MW-04-(3.5-4.5)	MW-04-(3.5-4.5)	MW-04-(8.5-9.5)	MW-05-(3-3.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	3.5-4.5	3.5-4.5	8.5-9.5	3.0-3.5
Date Sampled				04/19/10	04/16/10	04/16/10	04/20/10	04/26/10
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56		0.15 J	0.22 J		2.1
Dibenz(a,h)anthracene	MG/KG	0.33	0.56		0.026 J			2.4 J
Dibenzofuran	MG/KG	7	350		0.31 J			0.41
Di-n-butylphthalate	MG/KG	0.014 CP-51	-		0.11 J			0.039 J
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500		0.30	0.46		31
Fluorene	MG/KG	30	500		0.77 J			1.2
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6		0.13 J	0.073 J		8.8
Naphthalene	MG/KG	12	500		0.54	0.56		0.31
Phenanthrene	MG/KG	100	500		3.8	4.7		13
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500		1.0	1.3		30
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	ND	17.746	18.158	ND	143.68
Total Semivolatile Organic Compounds	MG/KG	-	-	0.084	18.21	18.21	ND	145.727
Metals								
Aluminum	MG/KG	10000 CP-51	-	9,770	11,500 J	8,910	8,120	9,270
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16		2.2		1.4	12.4
Barium	MG/KG	350	400	81.0 J	71.4 J	83.6 J	46.0 J	120
Beryllium	MG/KG	7.2	590	1.4 J	0.90 J	1.2 J	0.65 J	0.24 J
Cadmium	MG/KG	2.5	9.3	0.14 J	0.33	0.087 J	0.045 J	0.41

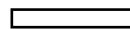
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Concentration Exceeds Criteria (2)

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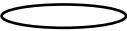
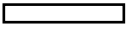
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				MW-03	MW-04	MW-04	MW-04	MW-05
Sample ID				MW-03-(14-15)	MW-04-(3.5-4.5)	MW-04-(3.5-4.5)	MW-04-(8.5-9.5)	MW-05-(3-3.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	3.5-4.5	3.5-4.5	8.5-9.5	3.0-3.5
Date Sampled				04/19/10	04/16/10	04/16/10	04/20/10	04/26/10
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Metals								
Calcium	MG/KG	10000 CP-51	-	2,750	6,900 J	14,500	1,450	3,190 J
Chromium	MG/KG	30	1500	27.3 J	27.0 J	22.6 J	14.2 J	24.2
Cobalt	MG/KG	20 CP-51	-	12.2 J	12.3 J	9.6 J	6.3 J	6.8
Copper	MG/KG	50	270	30.9	27.2 J	35.6	9.2	83.5
Iron	MG/KG	2000 CP-51	-	23,300	25,300	22,300	19,700	28,700
Lead	MG/KG	63	1000	5.0	7.8 J	11.6	4.9	250
Magnesium	MG/KG	-	-	6,450 J	6,680 J	11,200 J	2,800 J	3,840
Manganese	MG/KG	1600	10000	281 J	213 J	232 J	213 J	163
Mercury	MG/KG	0.18	2.8		0.013 J			0.38
Nickel	MG/KG	30	310	22.8 J	21.2 J	17.3 J	11.5 J	18.0
Potassium	MG/KG	-	-	3,630	2,200 J	3,060	828	2,360
Selenium	MG/KG	3.9	1500	3.2	2.6	3.7	1.5	2.3
Silver	MG/KG	2	1500			0.12 J	0.087 J	
Sodium	MG/KG	-	-	275 J	118 J	126 J	53.0 J	222
Thallium	MG/KG	5 CP-51	-		1.7			
Vanadium	MG/KG	39 CP-51	-	34.3	35.1 J	31.3	16.1	45.2
Zinc	MG/KG	109	10000	50.3 J	40.0 J	52.4 J	28.5 J	93.8 J

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**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				MW-05	MW-05	MW-05	MW-06	MW-06
Sample ID				MW-05-(4.5-5)	MW-05-(15-16)	MW-05-(20.5-21)	MW-06-(4-4.5)	MW-06-(10.5-11)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.0	15.0-16.0	20.5-21.0	4.0-4.5	10.5-11.0
Date Sampled				04/26/10	04/30/10	04/30/10	05/05/10	05/12/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500			1.3 J		
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.047 J				0.089 J
Benzene	MG/KG	0.06	44	0.047	3.1	21		0.041
Carbon disulfide	MG/KG	2.7 CP-51	-					
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390	0.36	29	93		21
Isopropylbenzene	MG/KG	2.3 CP-51	-	0.092 J	0.68 J	2.2 J		0.38 J
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-	0.0076 J				
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-		17	40		1.7 J
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500	0.014	13	28		0.94 J
Xylene (total)	MG/KG	0.26	500	0.19	49	170		52
Total BTEX	MG/KG	-	-	0.611	94.1	312	ND	73.981
Total Volatile Organic Compounds	MG/KG	-	-	0.7576	111.78	355.5	ND	76.15

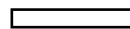
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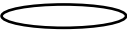
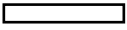
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-05	MW-05	MW-05	MW-06	MW-06
Sample ID				MW-05-(4.5-5)	MW-05-(15-16)	MW-05-(20.5-21)	MW-06-(4-4.5)	MW-06-(10.5-11)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.0	15.0-16.0	20.5-21.0	4.0-4.5	10.5-11.0
Date Sampled				04/26/10	04/30/10	04/30/10	05/05/10	05/12/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	0.37 J	1.4	29		15
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-			1.2 J		
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	14	17 J	180	0.058 J	160
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500		0.031 J			
3,3'-Dichlorobenzidine	MG/KG	-	-			0.68 J		
Acenaphthene	MG/KG	20	500	5.4	1.2	22		17 J
Acenaphthylene	MG/KG	100	500	1.3 J	8.4 J	64 J	0.096 J	20 J
Acetophenone	MG/KG	-	-	0.18 J				
Anthracene	MG/KG	100	500	3.2	2.9	24 J	0.050 J	12
Benzaldehyde	MG/KG	-	-	0.33 J				
Benzo(a)anthracene	MG/KG	1	5.6	5.1	2.6	21 J	0.38	13
Benzo(a)pyrene	MG/KG	1	1	3.9	1.9 J	18 J	0.58 J	9.4 J
Benzo(b)fluoranthene	MG/KG	1	5.6	3.3 J	1.4	11 J	0.66 J	10 J
Benzo(g,h,i)perylene	MG/KG	100	500	1.8 J	0.57	4.5 J	0.52	3.8
Benzo(k)fluoranthene	MG/KG	0.8	56	3.0 J	0.73	6.1	0.34	4.0
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.30 J	0.048 J		0.031 J	
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	0.29 J	0.021 J	0.23 J		0.42 J

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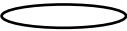
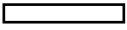
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				MW-05	MW-05	MW-05	MW-06	MW-06
Sample ID				MW-05-(4.5-5)	MW-05-(15-16)	MW-05-(20.5-21)	MW-06-(4-4.5)	MW-06-(10.5-11)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.0	15.0-16.0	20.5-21.0	4.0-4.5	10.5-11.0
Date Sampled				04/26/10	04/30/10	04/30/10	05/05/10	05/12/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	5.0	2.6	25	0.41	13 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.50 J	0.19 J	1.2 J	0.15 J	1.2 J
Dibenzofuran	MG/KG	7	350	0.42 J	0.19 J	3.0		2.6
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	7.3	4.9 J	26 J	0.31	20 J
Fluorene	MG/KG	30	500	3.4	4.2 J	31 J	0.020 J	27 J
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	1.9 J	0.45 J	3.2 J	0.45	3.0 J
Naphthalene	MG/KG	12	500	32	30 J	540	0.20	370
Phenanthrene	MG/KG	100	500	11	14 J	90 J	0.10 J	73
Phenol	MG/KG	0.33	500		0.050 J			
Pyrene	MG/KG	100	500	11	7.1 J	51 J	0.39	43
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	113.1	100.14	1,118	4.714	799.4
Total Semivolatile Organic Compounds	MG/KG	-	-	114.99	101.88	1,152.11	4.745	817.42
Metals								
Aluminum	MG/KG	10000 CP-51	-	16,500	10,500	6,810	13,000	12,600
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	3.9	2.5	0.66 J	3.6 J	
Barium	MG/KG	350	400	75.1	54.9	150	71.9 J	116
Beryllium	MG/KG	7.2	590				0.38 J	
Cadmium	MG/KG	2.5	9.3	0.42	0.23	0.26	0.23	0.30

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TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-05	MW-05	MW-05	MW-06	MW-06
Sample ID				MW-05-(4.5-5)	MW-05-(15-16)	MW-05-(20.5-21)	MW-06-(4-4.5)	MW-06-(10.5-11)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.0	15.0-16.0	20.5-21.0	4.0-4.5	10.5-11.0
Date Sampled				04/26/10	04/30/10	04/30/10	05/05/10	05/12/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	1,650 J	2,280 J	2,240 J	1,230	1,110
Chromium	MG/KG	30	1500	51.5	34.7	25.5	28.8	75.7
Cobalt	MG/KG	20 CP-51	-	18.1	15.6	14.1	6.9 J	8.8
Copper	MG/KG	50	270	425	33.5	34.3	22.2	27.4
Iron	MG/KG	2000 CP-51	-	19,000	18,500	21,300	20,300	29,700
Lead	MG/KG	63	1000	48.1	39.4	8.9	28.2 J	5.3
Magnesium	MG/KG	-	-	4,980	4,600	4,210	4,080 J	8,120
Manganese	MG/KG	1600	10000	122	140	737	145 J	187
Mercury	MG/KG	0.18	2.8	0.070				
Nickel	MG/KG	30	310	39.5	36.6	28.1	16.9 J	41.1
Potassium	MG/KG	-	-	2,710	2,520 J	3,080 J	2,080 J	5,280
Selenium	MG/KG	3.9	1500	2.7	2.0	2.4		2.2
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	154	155	191	254 J	178
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	55.5	40.0	28.8	36.5 J	66.1
Zinc	MG/KG	109	10000	278 J	218 J	41.0 J	57.7 J	51.7

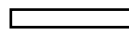
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SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				MW-07-URS	MW-07-URS	MW-11	MW-11	MW-11
Sample ID				MW-7-(4-4.5)	MW-7-(9.8-10.5)	MW-11-(3.5-4.5)	MW-11-(5-6)	MW-11-(20-21)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-4.5	9.8-10.5	3.5-4.5	5.0-6.0	20.0-21.0
Date Sampled				12/15/11	12/16/11	01/07/11	01/17/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500			0.021 J	0.0074 J	0.014 J
Benzene	MG/KG	0.06	44			0.0018 J		
Carbon disulfide	MG/KG	2.7 CP-51	-			0.0014 J	0.0033	0.017
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-		0.031			
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500		0.018			
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500			0.0012 J		
Xylene (total)	MG/KG	0.26	500					
Total BTEX	MG/KG	-	-	ND	ND	0.003	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	ND	0.049	0.0254	0.0107	0.031

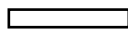
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SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				MW-07-URS	MW-07-URS	MW-11	MW-11	MW-11
Sample ID				MW-7-(4-4.5)	MW-7-(9.8-10.5)	MW-11-(3.5-4.5)	MW-11-(5-6)	MW-11-(20-21)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-4.5	9.8-10.5	3.5-4.5	5.0-6.0	20.0-21.0
Date Sampled				12/15/11	12/16/11	01/07/11	01/17/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-			0.045 J	0.050 J	
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-	1.3 J	1.3 J			
2-Methylnaphthalene	MG/KG	0.41 CP-51	-			0.20	0.17 J	
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500			0.039 J	0.035 J	
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500			0.082 J	0.27	
Acenaphthylene	MG/KG	100	500			0.28	0.38	
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500	0.088 J	0.18	0.43	0.64	
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	0.42	0.048 J	0.77	1.2	0.031 J
Benzo(a)pyrene	MG/KG	1	1	0.39		0.70	1.1	
Benzo(b)fluoranthene	MG/KG	1	5.6	0.30		0.84	1.4	
Benzo(g,h,i)perylene	MG/KG	100	500	0.24		0.61	1.2	
Benzo(k)fluoranthene	MG/KG	0.8	56	0.34		0.39	0.57	
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.066 J	0.21	0.16 J	0.11 J	
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-			0.19	0.28	

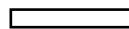
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-07-URS	MW-07-URS	MW-11	MW-11	MW-11
Sample ID				MW-7-(4-4.5)	MW-7-(9.8-10.5)	MW-11-(3.5-4.5)	MW-11-(5-6)	MW-11-(20-21)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-4.5	9.8-10.5	3.5-4.5	5.0-6.0	20.0-21.0
Date Sampled				12/15/11	12/16/11	01/07/11	01/17/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	0.38	0.075 J	0.69	1.1	
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.074 J		0.12 J	0.19 J	
Dibenzofuran	MG/KG	7	350			0.18 J	0.27	
Di-n-butylphthalate	MG/KG	0.014 CP-51	-	0.11 J	0.11 J		0.024 J	
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	0.57		1.5	2.3	0.048 J
Fluorene	MG/KG	30	500			0.25	0.38	
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.21		0.44 J	0.79	
Naphthalene	MG/KG	12	500			1.0	0.45	
Phenanthrene	MG/KG	100	500	0.27		1.3	2.1	0.041 J
Phenol	MG/KG	0.33	500			0.020 J		
Pyrene	MG/KG	100	500	0.57	0.25	1.6	2.2	0.049 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	3.852	0.553	11.202	16.44	0.169
Total Semivolatile Organic Compounds	MG/KG	-	-	5.328	2.173	11.836	17.209	0.169
Metals								
Aluminum	MG/KG	10000 CP-51	-	10,600	11,500	7,770	4,640 J	12,600 J
Antimony	MG/KG	12 CP-51	-			1.1 J	0.64 J	0.88 J
Arsenic	MG/KG	13	16	1.7		5.2	1.5	12.8
Barium	MG/KG	350	400	94.4	48.1	317	37.0 J	28.6 J
Beryllium	MG/KG	7.2	590	0.71	0.69	0.49	0.17 J	0.62 J
Cadmium	MG/KG	2.5	9.3			0.51 J	0.14 J	0.70

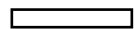
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**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				MW-07-URS	MW-07-URS	MW-11	MW-11	MW-11
Sample ID				MW-7-(4-4.5)	MW-7-(9.8-10.5)	MW-11-(3.5-4.5)	MW-11-(5-6)	MW-11-(20-21)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-4.5	9.8-10.5	3.5-4.5	5.0-6.0	20.0-21.0
Date Sampled				12/15/11	12/16/11	01/07/11	01/17/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	8,450	3,980	23,700 J	46,100 J	1,800 J
Chromium	MG/KG	30	1500	41.5	69.1	22.1	12.4 J	26.6 J
Cobalt	MG/KG	20 CP-51	-	8.3	8.3	6.7 J	6.3 J	10.4 J
Copper	MG/KG	50	270	44.4	89.2	31.2	15.1	14.1
Iron	MG/KG	2000 CP-51	-	20,500	21,500	15,300 J	12,000 J	48,500 J
Lead	MG/KG	63	1000	26.1	2.7	680 J	37.9 J	12.3 J
Magnesium	MG/KG	-	-	10,100	9,600	3,360	4,380 J	6,370 J
Manganese	MG/KG	1600	10000	280	195	482	259 J	534 J
Mercury	MG/KG	0.18	2.8	0.040 J		0.38	0.096 J	0.97 J
Nickel	MG/KG	30	310	26.8	40.3	17.1	12.5 J	23.7 J
Potassium	MG/KG	-	-	6,170	8,880	3,030	1,030	2,990
Selenium	MG/KG	3.9	1500					
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	1,300	204	199	209	2,620
Thallium	MG/KG	5 CP-51	-	0.65 J	0.90 J			0.54 J
Vanadium	MG/KG	39 CP-51	-	42.8	42.2	22.0	12.5 J	34.8 J
Zinc	MG/KG	109	10000	57.0	44.7	109 J	86.4 J	68.2 J

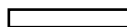
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**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-01	SB-01	SB-01	SB-01	SB-02
Sample ID				SB-01-(4.5-5)	SB-01-(5-5.5)	SB-01-(8.5-10)	SB-01-(33-34)	20100 325-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.0	5.0-5.5	8.5-10.0	33.0-34.0	4.7-5.3
Date Sampled				03/24/10	03/25/10	03/29/10	03/29/10	03/25/10
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500		0.0053 J	0.022 J	0.0055 J	0.012 J
Benzene	MG/KG	0.06	44	0.0058		0.0047 J		0.0079
Carbon disulfide	MG/KG	2.7 CP-51	-			0.0047 J		
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					0.0052 J
Ethylbenzene	MG/KG	1	390					0.0015 J
Isopropylbenzene	MG/KG	2.3 CP-51	-					0.029
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					0.022
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500					
Xylene (total)	MG/KG	0.26	500					0.0074
Total BTEX	MG/KG	-	-	0.0058	ND	0.0047	ND	0.0168
Total Volatile Organic Compounds	MG/KG	-	-	0.0058	0.0053	0.0314	0.0055	0.085

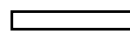
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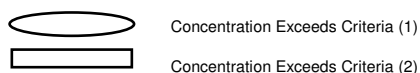
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-01	SB-01	SB-01	SB-01	SB-02
Sample ID				SB-01-(4.5-5)	SB-01-(5-5.5)	SB-01-(8.5-10)	SB-01-(33-34)	20100 325-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.0	5.0-5.5	8.5-10.0	33.0-34.0	4.7-5.3
Date Sampled				03/24/10	03/25/10	03/29/10	03/29/10	03/25/10
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
				Semivolatile Organic Compounds				
1,1'-Biphenyl	MG/KG	60 CP-51	-					
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.046 J	0.037 J			9.6
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	0.075 J	0.086 J	0.047 J		2.2 J
Acenaphthylene	MG/KG	100	500	0.34	0.45			0.54 J
Acetophenone	MG/KG	-	-	0.031 J				
Anthracene	MG/KG	100	500	0.15 J	0.21			0.85 J
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	0.63	0.85	0.049 J		1.4 J
Benzo(a)pyrene	MG/KG	1	1	0.47	0.69	0.042 J		0.78 J
Benzo(b)fluoranthene	MG/KG	1	5.6	0.67	1.0			0.59 J
Benzo(g,h,i)perylene	MG/KG	100	500	0.46	0.75			0.79 J
Benzo(k)fluoranthene	MG/KG	0.8	56	0.30	0.41			0.44 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.075 J	0.067 J	0.097 J	0.037 J	
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	0.031 J	0.034 J			

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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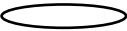
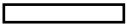
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-01	SB-01	SB-01	SB-01	SB-02
Sample ID				SB-01-(4.5-5)	SB-01-(5-5.5)	SB-01-(8.5-10)	SB-01-(33-34)	20100 325-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.0	5.0-5.5	8.5-10.0	33.0-34.0	4.7-5.3
Date Sampled				03/24/10	03/25/10	03/29/10	03/29/10	03/25/10
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	0.71	0.97	0.052 J		1.1 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.11 J	0.21			0.26 J
Dibenzofuran	MG/KG	7	350	0.047 J	0.041 J			
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	1.2	1.7			1.1 J
Fluorene	MG/KG	30	500	0.060 J	0.082 J			2.7 J
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.31	0.53			0.64 J
Naphthalene	MG/KG	12	500	0.067 J	0.051 J			0.63 J
Phenanthrene	MG/KG	100	500	0.26	0.32			3.2 J
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	1.4	1.6			2.6 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	7.258	9.946	0.19	ND	29.42
Total Semivolatile Organic Compounds	MG/KG	-	-	7.442	10.088	0.287	0.037	29.42
Metals								
Aluminum	MG/KG	10000 CP-51	-	7,260	8,320	13,600 J	5,130	14,500
Antimony	MG/KG	12 CP-51	-		0.72 J			
Arsenic	MG/KG	13	16	3.2	3.8	4.0 J	3.5	2.1
Barium	MG/KG	350	400	120 J	255 J	34.9 J	35.0 J	71.2 J
Beryllium	MG/KG	7.2	590	0.73 J	1.1 J	0.96 J	0.57 J	1.5 J
Cadmium	MG/KG	2.5	9.3	0.48	0.77	0.59 J	0.24	0.86 J

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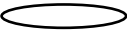
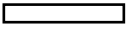
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-01	SB-01	SB-01	SB-01	SB-02
Sample ID				SB-01-(4.5-5)	SB-01-(5-5.5)	SB-01-(8.5-10)	SB-01-(33-34)	20100 325-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.0	5.0-5.5	8.5-10.0	33.0-34.0	4.7-5.3
Date Sampled				03/24/10	03/25/10	03/29/10	03/29/10	03/25/10
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Metals								
Calcium	MG/KG	10000 CP-51	-	17,400 J	6,930 J	2,920 J	1,440 J	1,270 J
Chromium	MG/KG	30	1500	24.7	25.2	27.0 J	20.3 J	31.3
Cobalt	MG/KG	20 CP-51	-	6.3 J	9.8 J	8.7 J	7.9 J	11.8 J
Copper	MG/KG	50	270	122 J	189 J	12.5 J	19.8	38.4 J
Iron	MG/KG	2000 CP-51	-	22,900	32,300	26,300 J	17,100	25,000
Lead	MG/KG	63	1000	186 J	1,190 J	12.7 J	3.7 J	10.4 J
Magnesium	MG/KG	-	-	3,610	4,290	6,780 J	2,990 J	4,370
Manganese	MG/KG	1600	10000	149 J	203 J	383 J	87.1 J	125 J
Mercury	MG/KG	0.18	2.8	0.67	2.6			0.022 J
Nickel	MG/KG	30	310	13.8 J	18.7 J	23.3 J	20.3 J	26.1 J
Potassium	MG/KG	-	-	1,530	1,770	2,920 J	1,820	2,070
Selenium	MG/KG	3.9	1500	1.6	1.9	1.8 J	0.71 J	1.5 J
Silver	MG/KG	2	1500	0.11 J	0.28 J			
Sodium	MG/KG	-	-	107	116	3,470 J	430	126
Thallium	MG/KG	5 CP-51	-	0.41 J	0.83	1.0 J	0.37 J	0.96 J
Vanadium	MG/KG	39 CP-51	-	27.9	37.2	43.7 J	18.9 J	38.4
Zinc	MG/KG	109	10000	140 J	297 J	61.6 J	31.2 J	267 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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 Concentration Exceeds Criteria (2)

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**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-02	SB-02	SB-02	SB-03	SB-03
Sample ID				SB-02-(4.7-5.3)	SB-02-(11.5-13)	SB-02-(27-28)	SB-03-(4.5-5.5)	SB-03-(28-29)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.7-5.3	11.5-13.0	27.0-28.0	4.5-5.5	28.0-29.0
Date Sampled				03/25/10	03/29/10	03/29/10	03/26/10	03/29/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500	0.0014 J				
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.014 J	0.023 J		0.020 J	0.0081 J
Benzene	MG/KG	0.06	44	0.0079	0.0024 J		0.012	
Carbon disulfide	MG/KG	2.7 CP-51	-		0.024 J			
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-	0.0037 J			0.017	
Ethylbenzene	MG/KG	1	390	0.0016 J			0.0060	
Isopropylbenzene	MG/KG	2.3 CP-51	-	0.019			0.082 J	
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-	0.015			0.080 J	
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500					
Xylene (total)	MG/KG	0.26	500	0.0057			0.012 J	
Total BTEX	MG/KG	-	-	0.0152	0.0024	ND	0.03	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.0683	0.0494	ND	0.229	0.0081

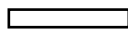
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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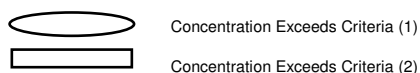
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-02	SB-02	SB-02	SB-03	SB-03
Sample ID				SB-02-(4.7-5.3)	SB-02-(11.5-13)	SB-02-(27-28)	SB-03-(4.5-5.5)	SB-03-(28-29)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.7-5.3	11.5-13.0	27.0-28.0	4.5-5.5	28.0-29.0
Date Sampled				03/25/10	03/29/10	03/29/10	03/26/10	03/29/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-					
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	10			35	
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	1.7 J			2.7	
Acenaphthylene	MG/KG	100	500	0.55 J				
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500	0.95 J			1.5 J	0.021 J
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	1.4 J			1.7 J	0.036 J
Benzo(a)pyrene	MG/KG	1	1	0.91 J			0.98 J	
Benzo(b)fluoranthene	MG/KG	1	5.6	0.54 J			0.83 J	
Benzo(g,h,i)perylene	MG/KG	100	500	0.99 J			0.86 J	
Benzo(k)fluoranthene	MG/KG	0.8	56	0.54 J			0.76 J	
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-		0.10 J	0.041 J		0.095 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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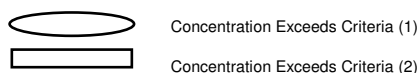
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-02	SB-02	SB-02	SB-03	SB-03
Sample ID				SB-02-(4.7-5.3)	SB-02-(11.5-13)	SB-02-(27-28)	SB-03-(4.5-5.5)	SB-03-(28-29)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.7-5.3	11.5-13.0	27.0-28.0	4.5-5.5	28.0-29.0
Date Sampled				03/25/10	03/29/10	03/29/10	03/26/10	03/29/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	1.2 J			2.6	0.026 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.29 J			0.22 J	
Dibenzofuran	MG/KG	7	350					
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	1.1 J	0.035 J		1.8 J	0.045 J
Fluorene	MG/KG	30	500	2.7 J			3.8	
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.64 J			0.57 J	
Naphthalene	MG/KG	12	500	0.63 J	0.10 J		1.1 J	
Phenanthrene	MG/KG	100	500	4.4 J			9.7	0.067 J
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	2.6 J			4.6	0.073 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	31.14	0.135	ND	68.72	0.268
Total Semivolatile Organic Compounds	MG/KG	-	-	31.14	0.235	0.041	68.72	0.363
Metals								
Aluminum	MG/KG	10000 CP-51	-	15,200	16,400 J	6,920	9,010	5,720
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	2.0	8.2 J	2.5	3.2	1.6
Barium	MG/KG	350	400	79.2 J	32.8 J	58.1 J	68.3 J	29.3 J
Beryllium	MG/KG	7.2	590	1.1 J	1.1 J	0.52 J	0.92 J	0.58 J
Cadmium	MG/KG	2.5	9.3	1.3 J	0.81 J	0.23	1.5	0.19 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-02	SB-02	SB-02	SB-03	SB-03
Sample ID				SB-02-(4.7-5.3)	SB-02-(11.5-13)	SB-02-(27-28)	SB-03-(4.5-5.5)	SB-03-(28-29)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.7-5.3	11.5-13.0	27.0-28.0	4.5-5.5	28.0-29.0
Date Sampled				03/25/10	03/29/10	03/29/10	03/26/10	03/29/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	1,610 J	2,490 J	1,010 J	2,910 J	1,040 J
Chromium	MG/KG	30	1500	34.2	32.5 J	16.8 J	24.5 J	16.0 J
Cobalt	MG/KG	20 CP-51	-	9.6 J	11.5 J	6.5 J	9.0 J	4.3 J
Copper	MG/KG	50	270	59.9 J	14.1 J	11.9	90.3	18.0
Iron	MG/KG	2000 CP-51	-	24,800	42,200 J	15,700	22,600	10,000
Lead	MG/KG	63	1000	20.1 J	13.6 J	5.2 J	94.4 J	3.3 J
Magnesium	MG/KG	-	-	4,970	7,860 J	2,930 J	3,350 J	2,520 J
Manganese	MG/KG	1600	10000	117 J	443 J	107 J	114 J	70.6 J
Mercury	MG/KG	0.18	2.8	0.085	0.026 J		0.17	
Nickel	MG/KG	30	310	24.3 J	28.0 J	11.7 J	21.2 J	10.2 J
Potassium	MG/KG	-	-	2,550	3,460 J	702	1,770	1,500
Selenium	MG/KG	3.9	1500	1.3		0.83 J	0.68 J	0.83 J
Silver	MG/KG	2	1500	0.13 J				
Sodium	MG/KG	-	-	154	3,400 J	572	122	279
Thallium	MG/KG	5 CP-51	-	1.0	1.4 J	0.39 J	0.50 J	0.27 J
Vanadium	MG/KG	39 CP-51	-	39.6	40.6 J	18.1 J	31.0 J	23.5 J
Zinc	MG/KG	109	10000	154 J	76.2 J	26.3 J	488 J	25.5 J

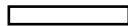
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Concentration Exceeds Criteria (1)



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TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-04	SB-04	SB-04	SB-05	SB-05
Sample ID				SB-04-(2.5-3.5)	SB-04-(4.2-5)	SB-04-(11-12)	SB-05-(4-5)	SB-05-(6.5-7.0)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-3.5	4.2-5.0	11.0-12.0	4.0-5.0	6.5-7.0
Date Sampled				04/13/10	04/13/10	04/16/10	04/13/10	04/16/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500					0.047 J
Benzene	MG/KG	0.06	44					
Carbon disulfide	MG/KG	2.7 CP-51	-					0.024 J
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					0.040
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500					0.019
Xylene (total)	MG/KG	0.26	500					0.034
Total BTEX	MG/KG	-	-	ND	ND	ND	ND	0.093
Total Volatile Organic Compounds	MG/KG	-	-	ND	ND	ND	ND	0.164

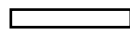
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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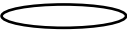
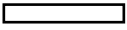
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-04	SB-04	SB-04	SB-05	SB-05
Sample ID				SB-04-(2.5-3.5)	SB-04-(4.2-5)	SB-04-(11-12)	SB-05-(4-5)	SB-05-(6.5-7.0)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-3.5	4.2-5.0	11.0-12.0	4.0-5.0	6.5-7.0
Date Sampled				04/13/10	04/13/10	04/16/10	04/13/10	04/16/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-				0.027 J	25 J
2,4-Dimethylphenol	MG/KG	-	-					1.8 J
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-				0.12 J	84 J
2-Methylphenol (o-cresol)	MG/KG	0.33	500					1.1 J
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					3.2 J
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500				0.035 J	250
Acenaphthylene	MG/KG	100	500	0.062 J	0.064 J		0.90	
Acetophenone	MG/KG	-	-				0.026 J	
Anthracene	MG/KG	100	500	0.059 J	0.083 J		0.29	140 J
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	0.25	0.29		2.1	390
Benzo(a)pyrene	MG/KG	1	1	0.22	0.22		2.8	290
Benzo(b)fluoranthene	MG/KG	1	5.6	0.30	0.32		2.6	370
Benzo(g,h,i)perylene	MG/KG	100	500	0.21	0.20 J		3.1	160
Benzo(k)fluoranthene	MG/KG	0.8	56	0.091 J	0.091 J		1.7	27 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-		0.054 J	0.034 J	0.069 J	
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-				0.039 J	96 J

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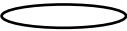
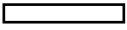
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-04	SB-04	SB-04	SB-05	SB-05
Sample ID				SB-04-(2.5-3.5)	SB-04-(4.2-5)	SB-04-(11-12)	SB-05-(4-5)	SB-05-(6.5-7.0)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-3.5	4.2-5.0	11.0-12.0	4.0-5.0	6.5-7.0
Date Sampled				04/13/10	04/13/10	04/16/10	04/13/10	04/16/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	0.26	0.29		1.9	390
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.041 J	0.045 J		0.64	27 J
Dibenzofuran	MG/KG	7	350				0.036 J	170
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	0.35	0.50	0.043 J	2.8	1,100
Fluorene	MG/KG	30	500		0.039 J		0.089 J	170
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.17 J	0.17 J		2.1 J	140 J
Naphthalene	MG/KG	12	500	0.022 J	0.022 J		0.11 J	410
Phenanthrene	MG/KG	100	500	0.20 J	0.34		0.90	1,200
Phenol	MG/KG	0.33	500					1.1 J
Pyrene	MG/KG	100	500	0.38	0.52		2.5	830
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	2.615	3.194	0.043	24.684	5,978
Total Semivolatile Organic Compounds	MG/KG	-	-	2.615	3.248	0.077	24.881	6,276.2
Metals								
Aluminum	MG/KG	10000 CP-51	-	10,700 J	9,650 J	10,100 J	9,250 J	5,720 J
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	4.3	8.1	8.3	2.3	4.8
Barium	MG/KG	350	400	79.2 J	53.1 J	22.5 J	113 J	94.7 J
Beryllium	MG/KG	7.2	590	1.1 J	0.91 J	0.73 J	0.95 J	0.55 J
Cadmium	MG/KG	2.5	9.3	0.51	0.41	0.29 J	0.35	0.22 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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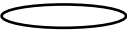
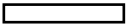
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-04	SB-04	SB-04	SB-05	SB-05
Sample ID				SB-04-(2.5-3.5)	SB-04-(4.2-5)	SB-04-(11-12)	SB-05-(4-5)	SB-05-(6.5-7.0)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-3.5	4.2-5.0	11.0-12.0	4.0-5.0	6.5-7.0
Date Sampled				04/13/10	04/13/10	04/16/10	04/13/10	04/16/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	4,100 J	3,570 J	1,300 J	12,000 J	102,000 J
Chromium	MG/KG	30	1500	27.3 J	27.0 J	21.5 J	21.4 J	12.7 J
Cobalt	MG/KG	20 CP-51	-	11.1 J	18.2 J	7.5 J	9.0 J	4.6 J
Copper	MG/KG	50	270	38.6 J	19.0 J	8.3 J	33.5 J	50.3 J
Iron	MG/KG	2000 CP-51	-	33,000	29,000	26,900	22,700	10,900
Lead	MG/KG	63	1000	59.6 J	26.9 J	9.0 J	52.9 J	175 J
Magnesium	MG/KG	-	-	5,850 J	5,370 J	5,210 J	8,120 J	2,820 J
Manganese	MG/KG	1600	10000	250 J	206 J	317 J	246 J	1,150 J
Mercury	MG/KG	0.18	2.8	4.1 J	0.97 J	0.018 J	0.36 J	1.5 J
Nickel	MG/KG	30	310	24.4 J	24.4 J	16.9 J	20.9 J	14.1 J
Potassium	MG/KG	-	-	3,570 J	3,210 J	2,470 J	2,790 J	891 J
Selenium	MG/KG	3.9	1500	3.5	3.6	3.2	3.0	1.1 J
Silver	MG/KG	2	1500	0.15 J	0.12 J	0.16 J	0.10 J	0.20 J
Sodium	MG/KG	-	-	287 J	325 J	3,620 J	295 J	730 J
Thallium	MG/KG	5 CP-51	-	1.7	1.7	2.5	1.7	4.5
Vanadium	MG/KG	39 CP-51	-	33.7 J	31.7 J	26.0 J	26.4 J	14.4 J
Zinc	MG/KG	109	10000	127 J	66.3 J	50.1 J	95.8 J	144 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Flags assigned during chemistry validation are shown.

	Concentration Exceeds Criteria (1)
	Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-05	SB-06	SB-06	SB-06	SB-07
Sample ID				SB-05-(11.5-12)	SB-06-(3-4)	20100414-FD-1	SB-06-(4.5-5.5)	SB-07-(3-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.5-12.0	3.0-4.0	4.5-5.5	4.5-5.5	3.0-4.0
Date Sampled				04/16/10	04/14/10	04/14/10	04/14/10	04/14/10
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.015 J	0.020 J	0.0040 J		0.0058 J
Benzene	MG/KG	0.06	44					0.0015 J
Carbon disulfide	MG/KG	2.7 CP-51	-	0.0050 J				
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Methyl acetate	MG/KG	-	-		0.0064	0.0056		
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500		0.0012 J			
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					0.013
Toluene	MG/KG	0.7	500				0.0013 J	0.0012 J
Xylene (total)	MG/KG	0.26	500					
Total BTEX	MG/KG	-	-	ND	ND	ND	0.0013	0.0027
Total Volatile Organic Compounds	MG/KG	-	-	0.02	0.0276	0.0096	0.0013	0.0215

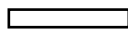
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Concentration Exceeds Criteria (1)



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SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-05	SB-06	SB-06	SB-06	SB-07
Sample ID				SB-05-(11.5-12)	SB-06-(3-4)	20100414-FD-1	SB-06-(4.5-5.5)	SB-07-(3-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.5-12.0	3.0-4.0	4.5-5.5	4.5-5.5	3.0-4.0
Date Sampled				04/16/10	04/14/10	04/14/10	04/14/10	04/14/10
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
				Semivolatile Organic Compounds				
1,1'-Biphenyl	MG/KG	60 CP-51	-					0.25 J
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-					2.2 J
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	0.21 J	0.027 J			3.2 J
Acenaphthylene	MG/KG	100	500		0.048 J			38
Acetophenone	MG/KG	-	-					0.35 J
Anthracene	MG/KG	100	500	0.43 J	0.16 J			16 J
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	0.27 J	0.44	0.077 J	0.071 J	70
Benzo(a)pyrene	MG/KG	1	1	0.12 J	0.29	0.046 J	0.047 J	66
Benzo(b)fluoranthene	MG/KG	1	5.6	0.16 J	0.34	0.071 J	0.066 J	91
Benzo(g,h,i)perylene	MG/KG	100	500	0.16 J	0.23	0.057 J	0.050 J	64
Benzo(k)fluoranthene	MG/KG	0.8	56	0.072 J	0.11 J	0.040 J	0.030 J	27
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-		0.15 J	0.033 J	0.044 J	
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	0.11 J	0.042 J			3.2 J

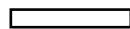
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SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-05	SB-06	SB-06	SB-06	SB-07
Sample ID				SB-05-(11.5-12)	SB-06-(3-4)	20100414-FD-1	SB-06-(4.5-5.5)	SB-07-(3-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.5-12.0	3.0-4.0	4.5-5.5	4.5-5.5	3.0-4.0
Date Sampled				04/16/10	04/14/10	04/14/10	04/14/10	04/14/10
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	0.28 J	0.37	0.065 J	0.069 J	65
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.046 J	0.034 J			11 J
Dibenzofuran	MG/KG	7	350	0.35 J	0.023 J			2.7 J
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					0.073 J
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	0.56 J	1.1	0.14 J	0.15 J	160
Fluorene	MG/KG	30	500	0.78 J	0.042 J			5.8 J
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.078 J	0.16 J	0.039 J	0.037 J	44
Naphthalene	MG/KG	12	500	0.13 J				4.0 J
Phenanthrene	MG/KG	100	500	2.1 J	0.50	0.026 J	0.024 J	55
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	0.41 J	0.96	0.15 J	0.14 J	140
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	5.806	4.811	0.711	0.684	862.2
Total Semivolatile Organic Compounds	MG/KG	-	-	6.266	5.026	0.744	0.728	868.773
Metals								
Aluminum	MG/KG	10000 CP-51	-	16,400 J	8,650 J	9,310 J	11,900 J	11,700 J
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	5.0 J	1.8	1.2	1.6	8.1
Barium	MG/KG	350	400	54.5 J	91.9 J	73.7 J	80.7 J	212 J
Beryllium	MG/KG	7.2	590	1.1 J	0.93 J	1.0 J	1.1 J	0.93 J
Cadmium	MG/KG	2.5	9.3	0.38 J	0.22 J	0.30	0.31	3.0

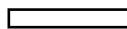
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SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-05	SB-06	SB-06	SB-06	SB-07
Sample ID				SB-05-(11.5-12)	SB-06-(3-4)	20100414-FD-1	SB-06-(4.5-5.5)	SB-07-(3-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.5-12.0	3.0-4.0	4.5-5.5	4.5-5.5	3.0-4.0
Date Sampled				04/16/10	04/14/10	04/14/10	04/14/10	04/14/10
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Metals								
Calcium	MG/KG	10000 CP-51	-	1,620 J	3,720 J	4,580 J	4,460 J	60,700 J
Chromium	MG/KG	30	1500	35.0 J	22.8 J	28.5 J	28.7 J	29.4 J
Cobalt	MG/KG	20 CP-51	-	18.2 J	10.0 J	10.3 J	11.9 J	6.4 J
Copper	MG/KG	50	270	62.4 J	32.8 J	33.4 J	32.5 J	101 J
Iron	MG/KG	2000 CP-51	-	20,200 J	25,200	22,700	26,400	26,200
Lead	MG/KG	63	1000	20.2 J	33.0 J	7.0 J	9.2 J	265 J
Magnesium	MG/KG	-	-	6,310 J	4,100 J	6,220 J	6,930 J	7,430 J
Manganese	MG/KG	1600	10000	222 J	240 J	194 J	311 J	388 J
Mercury	MG/KG	0.18	2.8	0.13 J	0.19 J	0.024 J	0.021 J	4.2 J
Nickel	MG/KG	30	310	29.3 J	19.3 J	22.9 J	23.6 J	22.7 J
Potassium	MG/KG	-	-	3,610 J	3,660 J	2,840 J	3,130 J	1,910 J
Selenium	MG/KG	3.9	1500	3.8 J	3.4	2.5	3.4	2.2
Silver	MG/KG	2	1500	0.20 J	0.093 J			0.17 J
Sodium	MG/KG	-	-	3,400 J	123 J	159 J	142 J	574 J
Thallium	MG/KG	5 CP-51	-	1.7 J	1.9	1.3 J	2.3 J	1.6
Vanadium	MG/KG	39 CP-51	-	42.0 J	27.7 J	30.9 J	35.9 J	30.3 J
Zinc	MG/KG	109	10000	72.8 J	53.4 J	102 J	64.8 J	165 J

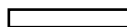
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**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-07	SB-07	SB-07	SB-08	SB-08
Sample ID				SB-07-(4.5-5.5)	SB-07-(13.3-14.2)	SB-07-(16-17)	SB-08-(3-3.5)	SB-08-(5-6)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.5	13.3-14.2	16.0-17.0	3.0-3.5	5.0-6.0
Date Sampled				04/14/10	04/20/10	04/20/10	04/28/10	04/28/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500		0.0091 J	0.031		
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500				0.0092 J	0.076 J
Benzene	MG/KG	0.06	44	0.048	0.84	0.84		
Carbon disulfide	MG/KG	2.7 CP-51	-					
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390	0.026	2.1	0.15		
Isopropylbenzene	MG/KG	2.3 CP-51	-		0.014 J			
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-		2.6	0.33		
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500		0.68	0.62		
Xylene (total)	MG/KG	0.26	500	0.050 J	6.5	0.54 J		
Total BTEX	MG/KG	-	-	0.124	10.12	2.15	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.124	12.7431	2.511	0.0092	0.076

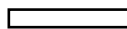
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TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-07	SB-07	SB-07	SB-08	SB-08
Sample ID				SB-07-(4.5-5.5)	SB-07-(13.3-14.2)	SB-07-(16-17)	SB-08-(3-3.5)	SB-08-(5-6)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.5	13.3-14.2	16.0-17.0	3.0-3.5	5.0-6.0
Date Sampled				04/14/10	04/20/10	04/20/10	04/28/10	04/28/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	0.33 J	3.5 J	0.052 J	0.055 J	
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.21 J	31 J	0.41 J	0.22	0.27 J
2-Methylphenol (o-cresol)	MG/KG	0.33	500		0.077 J			
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500		0.049 J			
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	6.4	2.6 J	0.023 J	0.38	1.8
Acenaphthylene	MG/KG	100	500	6.0	18	0.19 J	3.0	1.7
Acetophenone	MG/KG	-	-				0.072 J	0.21 J
Anthracene	MG/KG	100	500	21	10	0.39	2.5	1.0
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	15	9.4	0.17 J	7.1	2.4
Benzo(a)pyrene	MG/KG	1	1	12	5.7 J	0.076 J	4.9	1.5 J
Benzo(b)fluoranthene	MG/KG	1	5.6	12	5.7 J	0.071 J	6.2	2.4 J
Benzo(g,h,i)perylene	MG/KG	100	500	8.1	3.2 J	0.068 J	1.7 J	0.97
Benzo(k)fluoranthene	MG/KG	0.8	56	3.7	2.0	0.037 J	3.0 J	1.1
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-			0.033 J	0.43	
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	7.3	9.7	1.2	0.17 J	

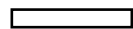
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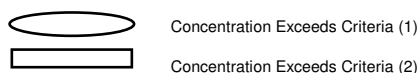
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-07	SB-07	SB-07	SB-08	SB-08
Sample ID				SB-07-(4.5-5.5)	SB-07-(13.3-14.2)	SB-07-(16-17)	SB-08-(3-3.5)	SB-08-(5-6)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.5	13.3-14.2	16.0-17.0	3.0-3.5	5.0-6.0
Date Sampled				04/14/10	04/20/10	04/20/10	04/28/10	04/28/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	12	7.8	0.13 J	8.0	3.1
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	2.8 J	1.2		0.93 J	0.32 J
Dibenzofuran	MG/KG	7	350	9.2	6.9 J	0.084 J	0.16 J	0.31 J
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	49	23	0.37	28	3.5
Fluorene	MG/KG	30	500	15	14	0.52	0.54	2.7
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	6.2	2.9	0.047 J	1.7 J	0.77 J
Naphthalene	MG/KG	12	500	7.7	71	2.1	0.17 J	0.44
Phenanthrene	MG/KG	100	500	51	41	0.64	5.4	0.55
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	36	20	0.32	15	8.4 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	264.11	268.5	5.562	88.74	32.92
Total Semivolatile Organic Compounds	MG/KG	-	-	280.94	288.726	6.931	89.627	33.44
Metals								
Aluminum	MG/KG	10000 CP-51	-	9,250 J	6,280	6,970	8,070	9,650
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	1.8	0.21 J	0.38 J	4.4	7.7
Barium	MG/KG	350	400	46.8 J	57.6 J	86.4 J	61.9	65.4
Beryllium	MG/KG	7.2	590	0.66 J	0.89 J	0.91 J	0.18 J	0.33 J
Cadmium	MG/KG	2.5	9.3	0.22 J	0.10 J	0.21	0.14 J	0.46

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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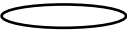
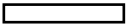
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-07	SB-07	SB-07	SB-08	SB-08
Sample ID				SB-07-(4.5-5.5)	SB-07-(13.3-14.2)	SB-07-(16-17)	SB-08-(3-3.5)	SB-08-(5-6)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.5	13.3-14.2	16.0-17.0	3.0-3.5	5.0-6.0
Date Sampled				04/14/10	04/20/10	04/20/10	04/28/10	04/28/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	3,090 J	1,390	4,220	58,400 J	925 J
Chromium	MG/KG	30	1500	16.8 J	18.0 J	30.8 J	19.2	17.3
Cobalt	MG/KG	20 CP-51	-	6.9 J	7.4 J	10.1 J	4.1	7.0
Copper	MG/KG	50	270	12.0 J	18.5	28.9	31.1	36.8
Iron	MG/KG	2000 CP-51	-	20,700	17,100	20,100	13,900	27,500
Lead	MG/KG	63	1000	12.6 J	3.1	6.5	107	74.3
Magnesium	MG/KG	-	-	3,050 J	3,620 J	5,520 J	6,150	2,570
Manganese	MG/KG	1600	10000	325 J	140 J	235 J	186	120
Mercury	MG/KG	0.18	2.8	0.052 J			0.55	0.091
Nickel	MG/KG	30	310	12.3 J	16.7 J	28.9 J	11.9	25.8
Potassium	MG/KG	-	-	1,000 J	2,300	3,000	1,300 J	1,270 J
Selenium	MG/KG	3.9	1500	4.0	2.9	3.4	2.3	1.9
Silver	MG/KG	2	1500	0.11 J				
Sodium	MG/KG	-	-	173 J	179 J	179 J	179	125
Thallium	MG/KG	5 CP-51	-	1.7				
Vanadium	MG/KG	39 CP-51	-	18.1 J	22.4	33.3	20.9	25.4
Zinc	MG/KG	109	10000	33.2 J	34.4 J	36.5 J	56.7 J	203 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

	Concentration Exceeds Criteria (1)
	Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

Blank cell or ND - Not detected. NA - Not analyzed.

J - The reported concentration is an estimated value. J+ - The reported concentration is an estimated value, with high bias.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-08	SB-08	SB-09	SB-09	SB-10
Sample ID				SB-08-(7-7.5)	SB-08-(10.5-11)	SB-09-(4.5-5.5)	SB-09-(7-8)	20100426-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.0-7.5	10.5-11.0	4.5-5.5	7.0-8.0	3.0-4.0
Date Sampled				04/29/10	04/29/10	04/27/10	04/28/10	04/26/10
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.22 J	0.22 J		0.010 J	0.0084 J
Benzene	MG/KG	0.06	44		0.33 J			
Carbon disulfide	MG/KG	2.7 CP-51	-		0.0073 J			
Chloroform	MG/KG	0.37	350	0.020 J	0.028 J			
Cyclohexane	MG/KG	-	-	0.098 J	0.35 J			
Ethylbenzene	MG/KG	1	390		2.6			
Isopropylbenzene	MG/KG	2.3 CP-51	-		2.5 J			
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-	0.21 J	0.55 J			
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500		0.043 J			
Xylene (total)	MG/KG	0.26	500	0.017 J	2.9 J			
Total BTEX	MG/KG	-	-	0.017	5.873	ND	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.565	9.5283	ND	0.01	0.0084

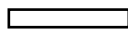
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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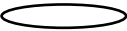
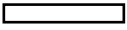
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-08	SB-08	SB-09	SB-09	SB-10
Sample ID				SB-08-(7-7.5)	SB-08-(10.5-11)	SB-09-(4.5-5.5)	SB-09-(7-8)	20100426-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.0-7.5	10.5-11.0	4.5-5.5	7.0-8.0	3.0-4.0
Date Sampled				04/29/10	04/29/10	04/27/10	04/28/10	04/26/10
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-		4.8			
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-		28	0.21 J		
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	0.70	26	0.14 J		
Acenaphthylene	MG/KG	100	500	0.16 J	7.5	0.35		
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500	0.52 J	15	0.43		
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	0.61	13	1.3		0.056 J
Benzo(a)pyrene	MG/KG	1	1	0.32 J	13 J	1.1		0.031 J
Benzo(b)fluoranthene	MG/KG	1	5.6	0.23 J	8.5 J	0.96 J		0.039 J
Benzo(g,h,i)perylene	MG/KG	100	500	0.10 J	3.3	0.67		0.023 J
Benzo(k)fluoranthene	MG/KG	0.8	56	0.12 J	3.4	1.0 J		0.021 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.088 J		0.46	0.024 J	0.097 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-			0.069 J		

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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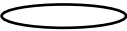
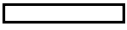
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-08	SB-08	SB-09	SB-09	SB-10
Sample ID				SB-08-(7-7.5)	SB-08-(10.5-11)	SB-09-(4.5-5.5)	SB-09-(7-8)	20100426-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.0-7.5	10.5-11.0	4.5-5.5	7.0-8.0	3.0-4.0
Date Sampled				04/29/10	04/29/10	04/27/10	04/28/10	04/26/10
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	0.53	12	1.1		0.043 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.026 J	0.99 J	0.21 J		
Dibenzofuran	MG/KG	7	350	0.12 J	0.52 J	0.047 J		
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	0.50 J	18	2.0		0.080 J
Fluorene	MG/KG	30	500	0.65	15	0.15 J		
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.072 J	2.4 J	0.66 J		
Naphthalene	MG/KG	12	500	0.11 J	74	0.36		
Phenanthrene	MG/KG	100	500	0.53 J	55	1.1		0.041 J
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	1.9	30	3.2		0.073 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	7.078	325.09	14.94	ND	0.407
Total Semivolatile Organic Compounds	MG/KG	-	-	7.286	330.41	15.516	0.024	0.504
Metals								
Aluminum	MG/KG	10000 CP-51	-	12,400	11,400	10,200	9,540	14,600 J
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	1.6	0.43 J	2.6	1.3	0.46 J
Barium	MG/KG	350	400	35.5	105	92.6	48.6	96.8
Beryllium	MG/KG	7.2	590	0.42 J			0.30 J	0.26 J
Cadmium	MG/KG	2.5	9.3	0.055 J	0.13 J	0.34	0.054 J	0.27

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-08	SB-08	SB-09	SB-09	SB-10
Sample ID				SB-08-(7-7.5)	SB-08-(10.5-11)	SB-09-(4.5-5.5)	SB-09-(7-8)	20100426-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.0-7.5	10.5-11.0	4.5-5.5	7.0-8.0	3.0-4.0
Date Sampled				04/29/10	04/29/10	04/27/10	04/28/10	04/26/10
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Metals								
Calcium	MG/KG	10000 CP-51	-	516 J	1,090 J	13,400 J	896 J	653 J
Chromium	MG/KG	30	1500	23.6	32.3	21.2	15.2	47.9 J
Cobalt	MG/KG	20 CP-51	-	5.5	10.5	7.7	6.4	8.7 J
Copper	MG/KG	50	270	22.9	37.0	42.0	8.9	35.5
Iron	MG/KG	2000 CP-51	-	24,700	28,500	18,500	16,500	33,500
Lead	MG/KG	63	1000	7.5	8.0	70.7	6.9	8.0 J
Magnesium	MG/KG	-	-	3,100	4,700	7,840	2,690	6,890 J
Manganese	MG/KG	1600	10000	203	346	195	287	204 J
Mercury	MG/KG	0.18	2.8			0.16	0.013 J	
Nickel	MG/KG	30	310	25.0	23.8	18.8	11.2	27.6 J
Potassium	MG/KG	-	-	1,210 J	3,340 J	2,040	645 J	3,840 J
Selenium	MG/KG	3.9	1500	1.7	2.8	2.3	1.2	2.3
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	177	221	321	751	121 J
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	36.8	41.5	30.1	21.4	51.0 J
Zinc	MG/KG	109	10000	49.9 J	88.4 J	115 J	30.4 J	79.7 J

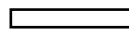
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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-10	SB-10	SB-10	SB-11	SB-11
Sample ID				SB-10-(3-4)	SB-10-(5-5.5)	SB-10-(11-11.5)	SB-11-(3-4)	SB-11-(4.5-5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	5.0-5.5	11.0-11.5	3.0-4.0	4.5-5.0
Date Sampled				04/26/10	04/26/10	04/29/10	04/28/10	04/28/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-		0.0017 J			
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.0044 J	0.0085 J			0.036 J
Benzene	MG/KG	0.06	44			0.024 J		
Carbon disulfide	MG/KG	2.7 CP-51	-			0.0045 J		
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500	0.0021 J				
Xylene (total)	MG/KG	0.26	500					
Total BTEX	MG/KG	-	-	0.0021	ND	0.024	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.0065	0.0102	0.0285	ND	0.036

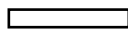
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Concentration Exceeds Criteria (1)



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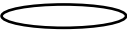
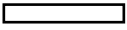
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-10	SB-10	SB-10	SB-11	SB-11
Sample ID				SB-10-(3-4)	SB-10-(5-5.5)	SB-10-(11-11.5)	SB-11-(3-4)	SB-11-(4.5-5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	5.0-5.5	11.0-11.5	3.0-4.0	4.5-5.0
Date Sampled				04/26/10	04/26/10	04/29/10	04/28/10	04/28/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-					
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.049 J		0.086 J	0.034 J	2.5 J
2-Methylphenol (o-cresol)	MG/KG	0.33	500	0.028 J				
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500	0.027 J				
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	0.13 J			0.038 J	0.11 J
Acenaphthylene	MG/KG	100	500	0.58			1.4	1.5 J
Acetophenone	MG/KG	-	-	0.091 J			0.23	0.36 J
Anthracene	MG/KG	100	500	0.44			0.71	0.51 J
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	2.0	0.030 J		3.0	2.2 J
Benzo(a)pyrene	MG/KG	1	1	1.9	0.021 J		2.4	1.4 J
Benzo(b)fluoranthene	MG/KG	1	5.6	2.4 J			4.4 J	3.3 J
Benzo(g,h,i)perylene	MG/KG	100	500	1.2			3.1	2.4 J
Benzo(k)fluoranthene	MG/KG	0.8	56	1.8 J			2.6	2.6 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.14 J	0.089 J		0.049 J	2.7
Butylbenzylphthalate	MG/KG	100 CP-51	-					0.040 J
Carbazole	MG/KG	-	-	0.12 J			0.081 J	0.087 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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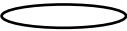
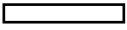
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-10	SB-10	SB-10	SB-11	SB-11
Sample ID				SB-10-(3-4)	SB-10-(5-5.5)	SB-10-(11-11.5)	SB-11-(3-4)	SB-11-(4.5-5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	5.0-5.5	11.0-11.5	3.0-4.0	4.5-5.0
Date Sampled				04/26/10	04/26/10	04/29/10	04/28/10	04/28/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	1.6	0.029 J		3.7	3.3 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.11 J			0.86 J	0.72 J
Dibenzofuran	MG/KG	7	350	0.035 J			0.058 J	0.16 J
Di-n-butylphthalate	MG/KG	0.014 CP-51	-	0.033 J				
Di-n-octylphthalate	MG/KG	100 CP-51	-				0.032 J	
Fluoranthene	MG/KG	100	500	2.7	0.037 J		5.2	3.4 J
Fluorene	MG/KG	30	500	0.10 J			0.12 J	0.34 J
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.23 J			2.5 J	1.9 J
Naphthalene	MG/KG	12	500	0.065 J		0.21 J	0.11 J	3.4 J
Phenanthrene	MG/KG	100	500	1.3	0.021 J		1.5	2.7 J
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	2.3	0.047 J		7.1	4.2 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	18.904	0.185	0.296	38.772	36.48
Total Semivolatile Organic Compounds	MG/KG	-	-	19.378	0.274	0.296	39.222	39.827
Metals								
Aluminum	MG/KG	10000 CP-51	-	9,280 J	14,600	19,400 J	6,340	4,960
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	5.3	0.45 J	12.2 J	7.9	8.2
Barium	MG/KG	350	400	71.2	102	47.3 J	80.1	78.1
Beryllium	MG/KG	7.2	590			0.89 J		
Cadmium	MG/KG	2.5	9.3	0.17 J	0.22 J	0.32 J	0.13 J	0.66

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

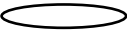
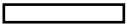
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-10	SB-10	SB-10	SB-11	SB-11
Sample ID				SB-10-(3-4)	SB-10-(5-5.5)	SB-10-(11-11.5)	SB-11-(3-4)	SB-11-(4.5-5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	5.0-5.5	11.0-11.5	3.0-4.0	4.5-5.0
Date Sampled				04/26/10	04/26/10	04/29/10	04/28/10	04/28/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	1,690 J	1,090 J	1,590 J	1,010 J	7,160 J
Chromium	MG/KG	30	1500	22.4 J	50.7	37.4 J	20.5	12.5
Cobalt	MG/KG	20 CP-51	-	5.3 J	8.7	13.8 J	4.7	6.6
Copper	MG/KG	50	270	32.9	34.6	18.0 J	55.0	75.1
Iron	MG/KG	2000 CP-51	-	25,000	33,200	53,100 J	30,000	38,100
Lead	MG/KG	63	1000	116 J	7.8	17.6 J	269	142
Magnesium	MG/KG	-	-	3,410 J	7,320	8,910 J	2,480	3,610
Manganese	MG/KG	1600	10000	109 J	197	750 J	112	159
Mercury	MG/KG	0.18	2.8				0.31	0.69
Nickel	MG/KG	30	310	14.1 J	29.7	32.0 J	13.6	13.2
Potassium	MG/KG	-	-	1,700 J	3,820	4,230 J	1,660 J	1,370 J
Selenium	MG/KG	3.9	1500	1.5 J	2.8	1.9 J	2.6	2.0
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	207 J	164	1,550 J	216	957
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	30.0 J	51.7	54.5 J	31.7	20.8
Zinc	MG/KG	109	10000	51.6 J	76.0 J	95.2 J	44.8 J	123 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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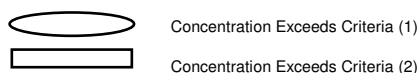
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-11	SB-12	SB-12	SB-12	SB-12
Sample ID				SB-11-(13-13.5)	SB-12-(3.5-4)	20100427-FD-1	SB-12-(4.5-5.5)	SB-12-(7-8)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				13.0-13.5	3.5-4.0	4.5-5.5	4.5-5.5	7.0-8.0
Date Sampled				04/29/10	04/27/10	04/27/10	04/27/10	04/29/10
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.017 J		0.0086 J	0.011 J	0.013 J
Benzene	MG/KG	0.06	44					
Carbon disulfide	MG/KG	2.7 CP-51	-					
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-					0.0050 J
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500					
Xylene (total)	MG/KG	0.26	500					
Total BTEX	MG/KG	-	-	ND	ND	ND	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.017	ND	0.0086	0.011	0.018

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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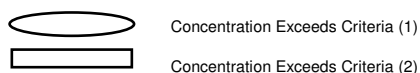
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-11	SB-12	SB-12	SB-12	SB-12
Sample ID				SB-11-(13-13.5)	SB-12-(3.5-4)	20100427-FD-1	SB-12-(4.5-5.5)	SB-12-(7-8)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				13.0-13.5	3.5-4.0	4.5-5.5	4.5-5.5	7.0-8.0
Date Sampled				04/29/10	04/27/10	04/27/10	04/27/10	04/29/10
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-					
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.026 J	0.020 J			
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500			0.023 J	0.023 J	
Acenaphthylene	MG/KG	100	500		0.14 J		0.021 J	
Acetophenone	MG/KG	-	-		0.045 J			
Anthracene	MG/KG	100	500		0.042 J			
Benzaldehyde	MG/KG	-	-		0.040 J			
Benzo(a)anthracene	MG/KG	1	5.6	0.033 J	0.15 J		0.031 J	
Benzo(a)pyrene	MG/KG	1	1	0.027 J	0.27		0.037 J	
Benzo(b)fluoranthene	MG/KG	1	5.6	0.032 J	0.35 J		0.056 J	
Benzo(g,h,i)perylene	MG/KG	100	500		0.36		0.040 J	
Benzo(k)fluoranthene	MG/KG	0.8	56		0.25 J		0.026 J	
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.044 J	0.022 J	0.035 J	0.12 J	0.047 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-11	SB-12	SB-12	SB-12	SB-12
Sample ID				SB-11-(13-13.5)	SB-12-(3.5-4)	20100427-FD-1	SB-12-(4.5-5.5)	SB-12-(7-8)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				13.0-13.5	3.5-4.0	4.5-5.5	4.5-5.5	7.0-8.0
Date Sampled				04/29/10	04/27/10	04/27/10	04/27/10	04/29/10
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	0.022 J	0.17 J		0.034 J	
Dibenz(a,h)anthracene	MG/KG	0.33	0.56		0.12 J			
Dibenzofuran	MG/KG	7	350					
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	0.047 J	0.11 J	0.027 J	0.035 J	
Fluorene	MG/KG	30	500					
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6		0.39 J		0.045 J	
Naphthalene	MG/KG	12	500	0.12 J	0.026 J		0.037 J	
Phenanthrene	MG/KG	100	500		0.024 J			
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	0.054 J	0.22	0.031 J	0.047 J	
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	0.361	2.642	0.081	0.432	ND
Total Semivolatile Organic Compounds	MG/KG	-	-	0.405	2.749	0.116	0.552	0.047
Metals								
Aluminum	MG/KG	10000 CP-51	-	11,500	17,300	14,000	11,900	11,800
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	0.79 J	1.6	2.0	1.4	
Barium	MG/KG	350	400	69.1	72.4	85.2 J	141 J	73.6
Beryllium	MG/KG	7.2	590		0.37 J	0.42 J	0.32 J	
Cadmium	MG/KG	2.5	9.3	0.14 J	0.26	0.17 J	0.19 J	0.14 J

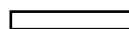
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Concentration Exceeds Criteria (1)



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**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-11	SB-12	SB-12	SB-12	SB-12
Sample ID				SB-11-(13-13.5)	SB-12-(3.5-4)	20100427-FD-1	SB-12-(4.5-5.5)	SB-12-(7-8)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				13.0-13.5	3.5-4.0	4.5-5.5	4.5-5.5	7.0-8.0
Date Sampled				04/29/10	04/27/10	04/27/10	04/27/10	04/29/10
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Metals								
Calcium	MG/KG	10000 CP-51	-	1,390 J	990 J	1,260 J	1,740 J	2,290 J
Chromium	MG/KG	30	1500	25.1	37.8	23.7	29.9	31.7
Cobalt	MG/KG	20 CP-51	-	8.9	6.8	6.9	8.8	12.9
Copper	MG/KG	50	270	18.9	34.1	17.6	24.9	33.4
Iron	MG/KG	2000 CP-51	-	27,100	34,400	24,300	22,500	30,100
Lead	MG/KG	63	1000	7.4	9.5	8.5	8.9	7.3
Magnesium	MG/KG	-	-	4,180	5,210	4,000	4,490	6,660
Manganese	MG/KG	1600	10000	637	214	261 J	137 J	612
Mercury	MG/KG	0.18	2.8					0.014 J
Nickel	MG/KG	30	310	16.6	22.8	18.2	22.5	24.6
Potassium	MG/KG	-	-	1,760 J	2,650	1,610	2,090	3,960 J
Selenium	MG/KG	3.9	1500	2.6	2.5	1.4 J	1.7	3.1
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	382	279	193	208	177
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	33.9	52.3	33.3	37.1	45.5
Zinc	MG/KG	109	10000	40.8 J	56.5 J	50.9 J	60.1 J	58.0 J

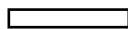
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-12	SB-13	SB-13	SB-14	SB-14
Sample ID				SB-12-(12-13)	SB-13-(3-4)	SB-13-(15-16)	SB-14-(3.5-4)	SB-14-(4.5-5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				12.0-13.0	3.0-4.0	15.0-16.0	3.5-4.0	4.5-5.0
Date Sampled				04/29/10	04/28/10	04/29/10	04/28/10	04/28/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.011 J		0.038 J	0.012 J	0.041 J
Benzene	MG/KG	0.06	44			0.0049 J		
Carbon disulfide	MG/KG	2.7 CP-51	-	0.0037		0.0083 J		
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390			0.0089 J		
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500		0.0059			
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500			0.0049 J		
Xylene (total)	MG/KG	0.26	500			0.018 J		
Total BTEX	MG/KG	-	-	ND	ND	0.0367	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.0147	0.0059	0.083	0.012	0.041

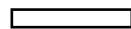
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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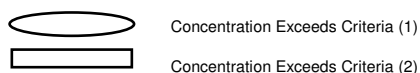
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-12	SB-13	SB-13	SB-14	SB-14
Sample ID				SB-12-(12-13)	SB-13-(3-4)	SB-13-(15-16)	SB-14-(3.5-4)	SB-14-(4.5-5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				12.0-13.0	3.0-4.0	15.0-16.0	3.5-4.0	4.5-5.0
Date Sampled				04/29/10	04/28/10	04/29/10	04/28/10	04/28/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-			0.024 J		
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.085 J		0.17 J		
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500			0.090 J		
Acenaphthylene	MG/KG	100	500			0.11 J	0.079 J	
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500			0.18 J	0.026 J	
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6		0.023 J	0.25	0.047 J	0.046 J
Benzo(a)pyrene	MG/KG	1	1		0.026 J	0.17 J	0.038 J	0.037 J
Benzo(b)fluoranthene	MG/KG	1	5.6		0.032 J	0.17 J	0.053 J	0.039 J
Benzo(g,h,i)perylene	MG/KG	100	500		0.024 J	0.084 J		
Benzo(k)fluoranthene	MG/KG	0.8	56			0.087 J	0.027 J	0.025 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-		0.033 J	2.0	0.091 J	0.29
Butylbenzylphthalate	MG/KG	100 CP-51	-			0.027 J		
Carbazole	MG/KG	-	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-12	SB-13	SB-13	SB-14	SB-14
Sample ID				SB-12-(12-13)	SB-13-(3-4)	SB-13-(15-16)	SB-14-(3.5-4)	SB-14-(4.5-5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				12.0-13.0	3.0-4.0	15.0-16.0	3.5-4.0	4.5-5.0
Date Sampled				04/29/10	04/28/10	04/29/10	04/28/10	04/28/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56		0.026 J	0.24	0.053 J	0.059 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56			0.022 J		
Dibenzofuran	MG/KG	7	350			0.059 J		
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500			0.53	0.057 J	0.088 J
Fluorene	MG/KG	30	500			0.15 J		
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6		0.025 J	0.064 J		
Naphthalene	MG/KG	12	500	0.40		0.35		
Phenanthrene	MG/KG	100	500			0.65	0.041 J	0.068 J
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500			0.53	0.068 J	0.11 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	0.485	0.156	3.847	0.489	0.472
Total Semivolatile Organic Compounds	MG/KG	-	-	0.485	0.189	5.957	0.58	0.762
Metals								
Aluminum	MG/KG	10000 CP-51	-	15,900	15,800	3,870	13,100	12,600
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	10.4	3.4	0.67 J	2.8	2.5
Barium	MG/KG	350	400	31.5	59.3	31.8	58.5	63.7
Beryllium	MG/KG	7.2	590	0.75 J	0.46 J		0.35 J	0.56 J
Cadmium	MG/KG	2.5	9.3	0.28 J	0.29	0.15 J	0.16 J	0.14 J

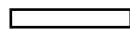
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

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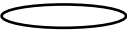
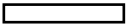
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-12	SB-13	SB-13	SB-14	SB-14
Sample ID				SB-12-(12-13)	SB-13-(3-4)	SB-13-(15-16)	SB-14-(3.5-4)	SB-14-(4.5-5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				12.0-13.0	3.0-4.0	15.0-16.0	3.5-4.0	4.5-5.0
Date Sampled				04/29/10	04/28/10	04/29/10	04/28/10	04/28/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	1,410 J	925 J	31,900 J	1,190 J	1,300 J
Chromium	MG/KG	30	1500	30.0	29.7	11.4	24.7	20.4
Cobalt	MG/KG	20 CP-51	-	11.1	7.1	2.2 J	8.3	8.0
Copper	MG/KG	50	270	13.7	20.6	27.8	28.0	17.7
Iron	MG/KG	2000 CP-51	-	45,800	29,800	6,690	26,300	23,500
Lead	MG/KG	63	1000	15.0	17.5	156	65.8	23.4
Magnesium	MG/KG	-	-	7,830	3,590	4,180	4,120	3,130
Manganese	MG/KG	1600	10000	622	135	135	256	267
Mercury	MG/KG	0.18	2.8			0.37	0.050	0.036 J
Nickel	MG/KG	30	310	25.6	20.7	13.0	16.9	14.8
Potassium	MG/KG	-	-	3,730 J	1,480	548 J	1,510 J	950 J
Selenium	MG/KG	3.9	1500	1.8 J	1.6	1.4 J	1.9	1.5
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	5,450	991	473	148	175
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	42.5	36.1	9.1	35.3	29.4
Zinc	MG/KG	109	10000	80.8 J	49.0 J	78.3 J	72.4 J	43.8 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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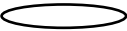
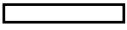
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-14	SB-15	SB-15	SB-15	SB-16
Sample ID				SB-14-(14.5-15)	SB-15-(3-3.5)	SB-15-(6-6.5)	SB-15-(22-23)	SB-16-(3.5-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.5-15.0	3.0-3.5	6.0-6.5	22.0-23.0	3.5-4.0
Date Sampled				04/29/10	05/04/10	05/04/10	05/04/10	05/05/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.0081 J		0.041 J		0.0089 J
Benzene	MG/KG	0.06	44			0.13	1.6	
Carbon disulfide	MG/KG	2.7 CP-51	-			0.0071 J		
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390			0.36	22	
Isopropylbenzene	MG/KG	2.3 CP-51	-			0.072 J	0.31 J	
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-				3.5	
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500			0.32	0.79	0.0012 J
Xylene (total)	MG/KG	0.26	500			2.9	35	
Total BTEX	MG/KG	-	-	ND	ND	3.71	59.39	0.0012
Total Volatile Organic Compounds	MG/KG	-	-	0.0081	ND	3.8301	63.2	0.0101

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-14	SB-15	SB-15	SB-15	SB-16
Sample ID				SB-14-(14.5-15)	SB-15-(3-3.5)	SB-15-(6-6.5)	SB-15-(22-23)	SB-16-(3.5-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.5-15.0	3.0-3.5	6.0-6.5	22.0-23.0	3.5-4.0
Date Sampled				04/29/10	05/04/10	05/04/10	05/04/10	05/05/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-		30 J	4.9 J	0.12 J	0.074 J
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.092 J	170 J	31	0.63	0.40
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	0.062 J	110 J	1.6	0.16 J	0.16 J
Acenaphthylene	MG/KG	100	500	0.068 J	60 J	14 J	1.1	1.2
Acetophenone	MG/KG	-	-		0.56 J		0.12 J	0.085 J
Anthracene	MG/KG	100	500	0.044 J	56 J	4.2 J	0.68	0.74
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	0.18 J	63 J	4.5 J	1.4	1.5
Benzo(a)pyrene	MG/KG	1	1	0.20 J	46 J	1.9 J	1.6	2.0 J
Benzo(b)fluoranthene	MG/KG	1	5.6	0.23 J	50 J	3.5 J	1.9 J	1.9 J
Benzo(g,h,i)perylene	MG/KG	100	500	0.19 J	23 J	1.4	1.6	2.0
Benzo(k)fluoranthene	MG/KG	0.8	56	0.12 J	21 J	2.1	1.7	2.2
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.061 J	0.29 J			0.19 J
Butylbenzylphthalate	MG/KG	100 CP-51	-		0.16 J			
Carbazole	MG/KG	-	-		7.5	0.32	0.054 J	0.058 J

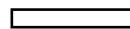
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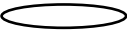
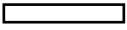
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-14	SB-15	SB-15	SB-15	SB-16
Sample ID				SB-14-(14.5-15)	SB-15-(3-3.5)	SB-15-(6-6.5)	SB-15-(22-23)	SB-16-(3.5-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.5-15.0	3.0-3.5	6.0-6.5	22.0-23.0	3.5-4.0
Date Sampled				04/29/10	05/04/10	05/04/10	05/04/10	05/05/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	0.20 J	50 J	4.4 J	1.8	1.8
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.034 J	5.4	0.45 J	0.45 J	0.54 J
Dibenzofuran	MG/KG	7	350		96 J	1.3	0.12 J	0.095 J
Di-n-butylphthalate	MG/KG	0.014 CP-51	-				0.037 J	0.037 J
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	0.24	180 J	6.0 J	2.8	2.7
Fluorene	MG/KG	30	500		73 J	7.0 J	0.57	0.42
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.15 J	22 J	1.0	1.2	1.4 J
Naphthalene	MG/KG	12	500	0.33	770	100	0.38	0.23
Phenanthrene	MG/KG	100	500	0.086 J	280 J	20	3.8	2.9
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	0.35	180 J	11 J	3.8	3.4
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	2.576	2,159.4	214.05	25.57	25.49
Total Semivolatile Organic Compounds	MG/KG	-	-	2.637	2,293.91	220.57	26.021	26.029
Metals								
Aluminum	MG/KG	10000 CP-51	-	11,500	12,200	19,400	5,620	9,070
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	1.5	5.6 J	1.0 J	1.7 J	5.7 J
Barium	MG/KG	350	400	63.8	136 J	147 J	48.8 J	111 J
Beryllium	MG/KG	7.2	590	0.39 J			0.30 J	0.37 J
Cadmium	MG/KG	2.5	9.3	0.19	0.55	0.55	0.25	0.92

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-14	SB-15	SB-15	SB-15	SB-16
Sample ID				SB-14-(14.5-15)	SB-15-(3-3.5)	SB-15-(6-6.5)	SB-15-(22-23)	SB-16-(3.5-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.5-15.0	3.0-3.5	6.0-6.5	22.0-23.0	3.5-4.0
Date Sampled				04/29/10	05/04/10	05/04/10	05/04/10	05/05/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	3,930 J	1,700	1,960	1,030	17,000
Chromium	MG/KG	30	1500	19.9	34.4 J	46.7 J	24.2 J	24.3 J
Cobalt	MG/KG	20 CP-51	-	8.2	9.1 J	20.9 J	8.2 J	9.3 J
Copper	MG/KG	50	270	32.0	85.7	26.6	25.8	54.2
Iron	MG/KG	2000 CP-51	-	23,000	41,800	22,600	16,700	24,900
Lead	MG/KG	63	1000	45.5	230 J	4.0 J	5.0 J	91.9 J
Magnesium	MG/KG	-	-	3,590	4,670 J	7,580 J	2,990 J	5,240 J
Manganese	MG/KG	1600	10000	463	153 J	1,230 J	164 J	226 J
Mercury	MG/KG	0.18	2.8	0.067	1.3 J			2.1 J
Nickel	MG/KG	30	310	15.3	20.7 J	28.0 J	17.7 J	22.5 J
Potassium	MG/KG	-	-	1,320 J	2,630 J	10,900 J	2,340 J	2,010 J
Selenium	MG/KG	3.9	1500	1.4				
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	750	195	259	224	302
Thallium	MG/KG	5 CP-51	-			1.6		0.52 J
Vanadium	MG/KG	39 CP-51	-	30.7	43.8 J	61.9 J	30.8 J	29.9 J
Zinc	MG/KG	109	10000	68.3 J	96.1 J	84.7 J	35.5 J	113 J

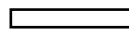
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Concentration Exceeds Criteria (2)

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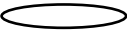
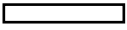
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-16	SB-16	SB-16	SB-17	SB-17
Sample ID				SB-16-(6-6.5)	SB-16-(9-10)	SB-16-(17.5-18)	SB-17-(3-3.5)	SB-17-(5.5-6)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.0-6.5	9.0-10.0	17.5-18.0	3.0-3.5	5.5-6.0
Date Sampled				05/05/10	05/05/10	05/05/10	05/11/10	05/11/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500		0.011 J			0.040 J
Benzene	MG/KG	0.06	44	0.45 J		3.1		0.025
Carbon disulfide	MG/KG	2.7 CP-51	-					0.022
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390	22		19		1.7
Isopropylbenzene	MG/KG	2.3 CP-51	-	0.49 J		1.4 J		0.074 J
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500	0.54 J		0.41 J		0.19 J
Xylene (total)	MG/KG	0.26	500	0.59 J		18		2.6 J
Total BTEX	MG/KG	-	-	23.58	ND	40.51	ND	4.515
Total Volatile Organic Compounds	MG/KG	-	-	24.07	0.011	41.91	ND	4.651

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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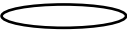
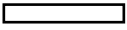
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-16	SB-16	SB-16	SB-17	SB-17
Sample ID				SB-16-(6-6.5)	SB-16-(9-10)	SB-16-(17.5-18)	SB-17-(3-3.5)	SB-17-(5.5-6)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.0-6.5	9.0-10.0	17.5-18.0	3.0-3.5	5.5-6.0
Date Sampled				05/05/10	05/05/10	05/05/10	05/11/10	05/11/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	0.10 J		2.7	0.15 J	0.60
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.60		9.0	1.8 J	1.3
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500				0.048 J	
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	1.2	0.027 J	6.6	0.31 J	2.7
Acenaphthylene	MG/KG	100	500	3.1		2.6 J	4.6	3.1
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500	2.7		3.3 J	4.0	6.8
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	6.1		2.8 J	22	4.1
Benzo(a)pyrene	MG/KG	1	1	3.0		2.9 J	24	2.7
Benzo(b)fluoranthene	MG/KG	1	5.6	3.5 J		1.7 J	26 J	2.7 J
Benzo(g,h,i)perylene	MG/KG	100	500	1.5		0.81	14	1.4
Benzo(k)fluoranthene	MG/KG	0.8	56	2.8		1.1	13 J	1.4 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.25	0.037 J	0.11 J	0.10 J	0.020 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	0.13 J		0.096 J	0.38 J	7.1

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

Blank cell or ND - Not detected. NA - Not analyzed.

J - The reported concentration is an estimated value. J+ - The reported concentration is an estimated value, with high bias.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-16	SB-16	SB-16	SB-17	SB-17
Sample ID				SB-16-(6-6.5)	SB-16-(9-10)	SB-16-(17.5-18)	SB-17-(3-3.5)	SB-17-(5.5-6)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.0-6.5	9.0-10.0	17.5-18.0	3.0-3.5	5.5-6.0
Date Sampled				05/05/10	05/05/10	05/05/10	05/11/10	05/11/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	6.7		2.6 J	22	4.2
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.55 J		0.25 J	3.4 J	0.57
Dibenzofuran	MG/KG	7	350	0.14 J		0.38	0.40 J	2.6
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	11		4.2	47	8.3
Fluorene	MG/KG	30	500	1.2		4.6	1.4 J	3.4
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	1.3		0.60 J	12 J	1.3
Naphthalene	MG/KG	12	500	0.30		22	1.8 J	16
Phenanthrene	MG/KG	100	500	8.1		14	10	7.9
Phenol	MG/KG	0.33	500			0.099 J		
Pyrene	MG/KG	100	500	18		7.8	59	13
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	71.65	0.027	86.86	266.31	80.87
Total Semivolatile Organic Compounds	MG/KG	-	-	72.27	0.064	90.245	267.388	91.19
Metals								
Aluminum	MG/KG	10000 CP-51	-	10,300	15,000	9,300	4,990	11,100
Antimony	MG/KG	12 CP-51	-	0.64 J				
Arsenic	MG/KG	13	16	16.6 J	4.3 J	1.2 J	3.5	0.77
Barium	MG/KG	350	400	73.9 J	75.7 J	87.6 J	50.1	48.4
Beryllium	MG/KG	7.2	590	0.33 J	0.43 J	0.16 J	0.071 J	0.17
Cadmium	MG/KG	2.5	9.3	2.6	0.17 J	0.19 J	0.20 J	0.23

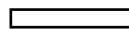
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-16	SB-16	SB-16	SB-17	SB-17
Sample ID				SB-16-(6-6.5)	SB-16-(9-10)	SB-16-(17.5-18)	SB-17-(3-3.5)	SB-17-(5.5-6)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.0-6.5	9.0-10.0	17.5-18.0	3.0-3.5	5.5-6.0
Date Sampled				05/05/10	05/05/10	05/05/10	05/11/10	05/11/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	5,840	953	1,130	808	1,630
Chromium	MG/KG	30	1500	25.1 J	19.8 J	34.8 J	9.6	19.7
Cobalt	MG/KG	20 CP-51	-	9.3 J	7.2 J	11.3 J	4.7	5.4
Copper	MG/KG	50	270	53.1	15.6	26.5	14.7	19.2
Iron	MG/KG	2000 CP-51	-	113,000	21,300 J	25,000	11,100	26,300
Lead	MG/KG	63	1000	66.6 J	9.0 J	7.5 J	53.1	7.5
Magnesium	MG/KG	-	-	4,260 J	3,460 J	4,870 J	1,320	3,440
Manganese	MG/KG	1600	10000	406 J	156 J	261 J	64.9	265
Mercury	MG/KG	0.18	2.8	0.70 J	0.0073 J		0.27	0.24
Nickel	MG/KG	30	310	19.7 J	14.9 J	25.1 J	15.4	13.6
Potassium	MG/KG	-	-	2,090 J	923 J	4,550 J	503	1,500
Selenium	MG/KG	3.9	1500				1.3 J	1.4
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	165	201	128	338	572
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	36.2 J	29.7 J	37.5 J	12.8	26.4
Zinc	MG/KG	109	10000	134 J	41.5 J	43.5 J	78.5	36.9

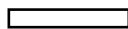
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Concentration Exceeds Criteria (1)



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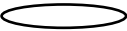
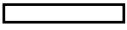
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-17	SB-18	SB-18	SB-18	SB-19
Sample ID				SB-17-(12-12.5)	SB-18-(4-4.5)	SB-18-(5.5-6)	SB-18-(8.5-9)	20100512-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				12.0-12.5	4.0-4.5	5.5-6.0	8.5-9.0	3.0-4.0
Date Sampled				05/12/10	05/11/10	05/12/10	05/12/10	05/12/10
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.12 J		0.0045 J	0.030 J	0.031 J
Benzene	MG/KG	0.06	44	5.7 J				
Carbon disulfide	MG/KG	2.7 CP-51	-					
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-	0.038 J				
Ethylbenzene	MG/KG	1	390	11				
Isopropylbenzene	MG/KG	2.3 CP-51	-	0.33 J				
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-	0.14 J				
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-	15				
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500	12				
Xylene (total)	MG/KG	0.26	500	66				
Total BTEX	MG/KG	-	-	94.7	ND	ND	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	110.328	ND	0.0045	0.03	0.031

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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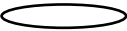
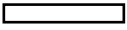
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-17	SB-18	SB-18	SB-18	SB-19
Sample ID				SB-17-(12-12.5)	SB-18-(4-4.5)	SB-18-(5.5-6)	SB-18-(8.5-9)	20100512-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				12.0-12.5	4.0-4.5	5.5-6.0	8.5-9.0	3.0-4.0
Date Sampled				05/12/10	05/11/10	05/12/10	05/12/10	05/12/10
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
				Semivolatile Organic Compounds				
1,1'-Biphenyl	MG/KG	60 CP-51	-					
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	670		1.0		
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	33 J		0.42		
Acenaphthylene	MG/KG	100	500	180 J		6.1	0.049 J	0.065 J
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500	64 J		2.7		0.045 J
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	79 J	0.14 J	2.6	0.042 J	0.23
Benzo(a)pyrene	MG/KG	1	1	41 J	0.17 J	3.0	0.036 J	0.23
Benzo(b)fluoranthene	MG/KG	1	5.6		0.16 J	5.4		0.27 J
Benzo(g,h,i)perylene	MG/KG	100	500		0.14 J	3.1		0.22
Benzo(k)fluoranthene	MG/KG	0.8	56		0.096 J	2.5 J		0.11 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-		0.22	0.17 J	0.030 J	0.065 J
Butylbenzylphthalate	MG/KG	100 CP-51	-		0.019 J			
Carbazole	MG/KG	-	-			0.022 J		

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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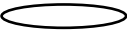
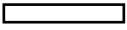
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-17	SB-18	SB-18	SB-18	SB-19
Sample ID				SB-17-(12-12.5)	SB-18-(4-4.5)	SB-18-(5.5-6)	SB-18-(8.5-9)	20100512-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				12.0-12.5	4.0-4.5	5.5-6.0	8.5-9.0	3.0-4.0
Date Sampled				05/12/10	05/11/10	05/12/10	05/12/10	05/12/10
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
				Semivolatile Organic Compounds				
Chrysene	MG/KG	1	56	73 J	0.11 J	1.9	0.032 J	0.20
Dibenz(a,h)anthracene	MG/KG	0.33	0.56		0.036 J	1.4		0.036 J
Dibenzofuran	MG/KG	7	350					
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Di-n-octylphthalate	MG/KG	100 CP-51	-		0.042 J			
Fluoranthene	MG/KG	100	500	120 J	0.11 J	1.8	0.040 J	0.39
Fluorene	MG/KG	30	500	120 J		0.48		
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6		0.14 J	2.5 J		0.20 J
Naphthalene	MG/KG	12	500	1,800				
Phenanthrene	MG/KG	100	500	380	0.044 J	0.48	0.042 J	0.10 J
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	230 J	0.14 J	3.5	0.12 J	0.49
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	3,790	1.286	38.88	0.361	2.586
Total Semivolatile Organic Compounds	MG/KG	-	-	3,790	1.567	39.072	0.391	2.651
Metals								
Aluminum	MG/KG	10000 CP-51	-	9,170	9,410	10,300	28,600	14,100
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16		1.5			
Barium	MG/KG	350	400	202	72.2	85.6	353	55.7
Beryllium	MG/KG	7.2	590			0.098 J		
Cadmium	MG/KG	2.5	9.3	0.22	0.25	0.31	0.58	0.32

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Only Detected Results Reported.

**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-17	SB-18	SB-18	SB-18	SB-19
Sample ID				SB-17-(12-12.5)	SB-18-(4-4.5)	SB-18-(5.5-6)	SB-18-(8.5-9)	20100512-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				12.0-12.5	4.0-4.5	5.5-6.0	8.5-9.0	3.0-4.0
Date Sampled				05/12/10	05/11/10	05/12/10	05/12/10	05/12/10
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Metals								
Calcium	MG/KG	10000 CP-51	-	1,040	3,750	10,900	3,140	1,770
Chromium	MG/KG	30	1500	39.0	26.0	29.6	177	12.1 J
Cobalt	MG/KG	20 CP-51	-	8.6	9.7	11.1	20.9	8.8
Copper	MG/KG	50	270	30.0	33.6	31.0	28.0	56.8
Iron	MG/KG	2000 CP-51	-	25,000	22,600	26,500	46,400	29,400
Lead	MG/KG	63	1000	4.0	11.3	5.9	1.5	12.4
Magnesium	MG/KG	-	-	5,140	5,160	10,600	18,200	7,950
Manganese	MG/KG	1600	10000	135	289	209	386	222
Mercury	MG/KG	0.18	2.8		0.095			0.010 J
Nickel	MG/KG	30	310	40.4	20	35.0	71.8	10.4
Potassium	MG/KG	-	-	3,050	3,010	3,500	16,500	3,860
Selenium	MG/KG	3.9	1500	1.8	1.5	1.4		2.0
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	100	145	131	171	370
Thallium	MG/KG	5 CP-51	-				0.59 J	
Vanadium	MG/KG	39 CP-51	-	36.6	34.6	38.3	127	41.8
Zinc	MG/KG	109	10000	43.1	53.5	49.1	94.7	80.5

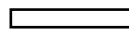
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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-19	SB-19	SB-20	SB-20	SB-21
Sample ID				SB-19-(3-4)	SB-19-(5-5.5)	SB-20-(3-3.5)	SB-20-(4.5-5)	SB-21-(3.5-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	5.0-5.5	3.0-3.5	4.5-5.0	3.5-4.0
Date Sampled				05/12/10	05/12/10	12/15/11	12/15/11	12/15/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.016 J	0.24 J		0.014 J	
Benzene	MG/KG	0.06	44					
Carbon disulfide	MG/KG	2.7 CP-51	-		0.019		0.0034 J	
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-		0.065 J			
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-		0.044 J			
Methylene chloride	MG/KG	0.05	500			0.009		
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500					
Xylene (total)	MG/KG	0.26	500		0.013 J			
Total BTEX	MG/KG	-	-	ND	0.013	ND	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.016	0.381	0.009	0.0174	ND

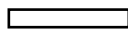
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

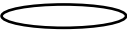
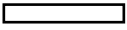
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-19	SB-19	SB-20	SB-20	SB-21
Sample ID				SB-19-(3-4)	SB-19-(5-5.5)	SB-20-(3-3.5)	SB-20-(4.5-5)	SB-21-(3.5-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	5.0-5.5	3.0-3.5	4.5-5.0	3.5-4.0
Date Sampled				05/12/10	05/12/10	12/15/11	12/15/11	12/15/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-					0.13 J
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-			1.4 J		1.4 J
2-Methylnaphthalene	MG/KG	0.41 CP-51	-			0.21		0.092 J
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500					0.17 J
Acenaphthylene	MG/KG	100	500	0.022 J				0.60
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500		1.9		1.3 J	0.84
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	0.021 J	0.60	0.10 J	0.31	2.8 D
Benzo(a)pyrene	MG/KG	1	1	0.023 J	0.57	0.10 J	0.29	2.9 D
Benzo(b)fluoranthene	MG/KG	1	5.6		0.34 J	0.14 J	0.12 J	2.5
Benzo(g,h,i)perylene	MG/KG	100	500	0.024 J	0.44	0.15 J		1.9
Benzo(k)fluoranthene	MG/KG	0.8	56		0.34 J	0.10 J	0.17 J	2.4
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.046 J	0.054 J	0.061 J		0.084 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-					0.23

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

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D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

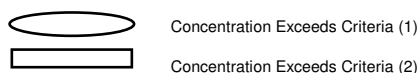
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-19	SB-19	SB-20	SB-20	SB-21
Sample ID				SB-19-(3-4)	SB-19-(5-5.5)	SB-20-(3-3.5)	SB-20-(4.5-5)	SB-21-(3.5-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	5.0-5.5	3.0-3.5	4.5-5.0	3.5-4.0
Date Sampled				05/12/10	05/12/10	12/15/11	12/15/11	12/15/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56		1.8	0.098 J	0.22	1.5
Dibenz(a,h)anthracene	MG/KG	0.33	0.56		0.33 J	0.043 J		0.37
Dibenzofuran	MG/KG	7	350				0.49 J	0.14 J
Di-n-butylphthalate	MG/KG	0.014 CP-51	-			0.10 J		0.15 J
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	0.019 J	0.89	0.12 J	0.26	4.0 D
Fluorene	MG/KG	30	500		3.4			0.20
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.021 J	0.24 J	0.11 J		1.6
Naphthalene	MG/KG	12	500			0.13 J		0.093 J
Phenanthrene	MG/KG	100	500	0.022 J	1.6	0.11 J	0.41 J	2.3
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	0.023 J	1.5	0.11 J	0.55 J	3.5 D
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	0.175	13.95	1.521	3.63	27.765
Total Semivolatile Organic Compounds	MG/KG	-	-	0.221	14.004	3.082	4.12	29.899
Metals								
Aluminum	MG/KG	10000 CP-51	-	13,900	9,720	13,700	17,400	4,080
Antimony	MG/KG	12 CP-51	-					4.0
Arsenic	MG/KG	13	16			1.7	1.9	9.6
Barium	MG/KG	350	400	57.7	76.2	192	225	66.9
Beryllium	MG/KG	7.2	590			0.80	0.94	0.36
Cadmium	MG/KG	2.5	9.3	0.32	0.27		0.15 J	0.87

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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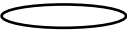
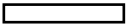
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-19	SB-19	SB-20	SB-20	SB-21
Sample ID				SB-19-(3-4)	SB-19-(5-5.5)	SB-20-(3-3.5)	SB-20-(4.5-5)	SB-21-(3.5-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	5.0-5.5	3.0-3.5	4.5-5.0	3.5-4.0
Date Sampled				05/12/10	05/12/10	12/15/11	12/15/11	12/15/11
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	1,660	2,100	3,040	11,500	32,200
Chromium	MG/KG	30	1500	21.9 J	11.9	25.7	71.6	13.9
Cobalt	MG/KG	20 CP-51	-	8.4	9.0	5.7	15.7	3.1
Copper	MG/KG	50	270	51.6	57.8	35.9	32.2	37.1
Iron	MG/KG	2000 CP-51	-	29,500	24,700	26,800	42,800	55,400
Lead	MG/KG	63	1000	9.4	6.3	17.5	13.9	132
Magnesium	MG/KG	-	-	7,240	6,380	8,730	13,000	2,530
Manganese	MG/KG	1600	10000	204	237	241	174	276
Mercury	MG/KG	0.18	2.8	0.0086 J	0.031 J	0.11	0.021 J	0.13
Nickel	MG/KG	30	310	13.0	6.8	19.4	58.2	14.0
Potassium	MG/KG	-	-	3,760	2,550	8,570	7,550	1,190
Selenium	MG/KG	3.9	1500	2.3	1.8			
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	326	175	132	112	259
Thallium	MG/KG	5 CP-51	-			1.1	1.2	
Vanadium	MG/KG	39 CP-51	-	45.2	49.6	70.4	99.0	25.5
Zinc	MG/KG	109	10000	74.9	58.3	128	165	159

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

	Concentration Exceeds Criteria (1)
	Concentration Exceeds Criteria (2)

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D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-21	SB-21	SB-22	SB-22	SB-32
Sample ID				SB-21-(10-11)	SB-21-(21-22)	20111215-FD-1	SB-22-(4-4.5)	SB-32-(3-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-11.0	21.0-22.0	4.0-4.5	4.0-4.5	3.0-4.0
Date Sampled				12/16/11	12/16/11	12/15/11	12/15/11	01/13/11
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.010 J	0.0088 J			
Benzene	MG/KG	0.06	44					
Carbon disulfide	MG/KG	2.7 CP-51	-	0.0029				
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500			0.0036		
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500					
Xylene (total)	MG/KG	0.26	500					
Total BTEX	MG/KG	-	-	ND	ND	ND	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.0129	0.0088	0.0036	ND	ND

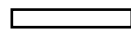
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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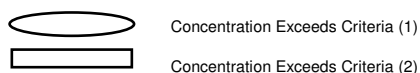
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-21	SB-21	SB-22	SB-22	SB-32
Sample ID				SB-21-(10-11)	SB-21-(21-22)	20111215-FD-1	SB-22-(4-4.5)	SB-32-(3-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-11.0	21.0-22.0	4.0-4.5	4.0-4.5	3.0-4.0
Date Sampled				12/16/11	12/16/11	12/15/11	12/15/11	01/13/11
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	32				0.14 J
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-		1.4 J	1.3 J	1.3 J	
2-Methylnaphthalene	MG/KG	0.41 CP-51	-					0.42
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					0.050 J
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	120				0.32
Acenaphthylene	MG/KG	100	500	22	0.091 J	0.092 J	0.12 J	2.5
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500	60	0.28	0.085 J	0.097 J	2.4
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	39	0.39	0.29	0.30	7.6
Benzo(a)pyrene	MG/KG	1	1	28	0.55	0.28	0.38	9.2
Benzo(b)fluoranthene	MG/KG	1	5.6	18 J	0.16 J	0.25	0.26	11
Benzo(g,h,i)perylene	MG/KG	100	500	12 J	0.26	0.18	0.27	6.4
Benzo(k)fluoranthene	MG/KG	0.8	56	11 J	0.12 J	0.19	0.30	2.5
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-			0.094 J	0.11 J	
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-					0.37

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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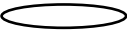
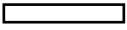
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-21	SB-21	SB-22	SB-22	SB-32
Sample ID				SB-21-(10-11)	SB-21-(21-22)	20111215-FD-1	SB-22-(4-4.5)	SB-32-(3-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-11.0	21.0-22.0	4.0-4.5	4.0-4.5	3.0-4.0
Date Sampled				12/16/11	12/16/11	12/15/11	12/15/11	01/13/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	37	0.32	0.24	0.29	7.3
Dibenz(a,h)anthracene	MG/KG	0.33	0.56			0.068 J	0.083 J	1.7
Dibenzofuran	MG/KG	7	350	6.4 J				0.64
Di-n-butylphthalate	MG/KG	0.014 CP-51	-		0.087 J	0.11 J	0.10 J	0.23
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	62	0.23	0.33	0.35	13
Fluorene	MG/KG	30	500	62				0.96
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	8.2 J	0.073 J	0.13 J	0.20	5.4
Naphthalene	MG/KG	12	500	32	0.065 J			0.58
Phenanthrene	MG/KG	100	500	190	0.088 J	0.16 J	0.17 J	7.7
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	99	1.7	0.34	0.40	14
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	800.2	4.327	2.635	3.22	92.98
Total Semivolatile Organic Compounds	MG/KG	-	-	838.6	5.814	4.139	4.73	94.41
Metals								
Aluminum	MG/KG	10000 CP-51	-	7,980	18,800	8,850	8,200	6,550
Antimony	MG/KG	12 CP-51	-					0.71 J
Arsenic	MG/KG	13	16	4.8	9.0	2.1	2.1	8.2
Barium	MG/KG	350	400	79.3	104	61.8	56.2	144
Beryllium	MG/KG	7.2	590	0.85	2.0	0.63	0.62	0.30
Cadmium	MG/KG	2.5	9.3				0.016 J	1.5

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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 Concentration Exceeds Criteria (1)
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D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-21	SB-21	SB-22	SB-22	SB-32
Sample ID				SB-21-(10-11)	SB-21-(21-22)	20111215-FD-1	SB-22-(4-4.5)	SB-32-(3-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-11.0	21.0-22.0	4.0-4.5	4.0-4.5	3.0-4.0
Date Sampled				12/16/11	12/16/11	12/15/11	12/15/11	01/13/11
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Metals								
Calcium	MG/KG	10000 CP-51	-	1,960	2,350	10,300	14,800	22,300 J
Chromium	MG/KG	30	1500	21.2	45.8	26.4	29.3	23.4
Cobalt	MG/KG	20 CP-51	-	4.9	9.1	6.3	6.4	7.5
Copper	MG/KG	50	270	16.4	52.8	28.1	28.8	58.6 J
Iron	MG/KG	2000 CP-51	-	19,800	37,700	17,000	18,200	21,200
Lead	MG/KG	63	1000	6.9	48.8	34.7	41.5	266
Magnesium	MG/KG	-	-	4,440	10,000	8,240	7,430	3,830 J
Manganese	MG/KG	1600	10000	198	515	291	260	248
Mercury	MG/KG	0.18	2.8	0.012 J	0.046	0.066	0.045	0.32 J
Nickel	MG/KG	30	310	11.5	21.7	20.1	20.1	21.9
Potassium	MG/KG	-	-	4,040	10,700	3,700	3,710	1,400
Selenium	MG/KG	3.9	1500					1.7
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	614	2,840	402	385	254
Thallium	MG/KG	5 CP-51	-	0.33 J	0.93 J	0.54 J	0.65 J	
Vanadium	MG/KG	39 CP-51	-	32.6	77.2	31.9	37.0	23.4
Zinc	MG/KG	109	10000	35.2	93.8	51.8	52.8	215 J

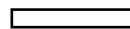
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

Blank cell or ND - Not detected. NA - Not analyzed.

J - The reported concentration is an estimated value. J+ - The reported concentration is an estimated value, with high bias.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-32	SB-32	SB-32	SB-33	SB-33
Sample ID				SB-32-(5-6)	SB-32-(9-10)	SB-32-(13-14)	SB-33-(3.5-4)	SB-33-(10.5-11)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.0-6.0	9.0-10.0	13.0-14.0	3.5-4.0	10.5-11.0
Date Sampled				01/17/11	01/17/11	01/17/11	01/11/11	01/14/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500		0.0072 J			
Acetone	MG/KG	0.05	500	0.030 J	0.036 J	0.017 J	0.0042 J	0.019 J
Benzene	MG/KG	0.06	44					0.015
Carbon disulfide	MG/KG	2.7 CP-51	-		0.0023	0.012		0.0088
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500				0.0016 J	
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500		0.0020 J			0.0027 J
Xylene (total)	MG/KG	0.26	500		0.0053			0.013
Total BTEX	MG/KG	-	-	ND	0.0073	ND	ND	0.0307
Total Volatile Organic Compounds	MG/KG	-	-	0.03	0.0528	0.029	0.0058	0.0585

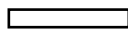
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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J - The reported concentration is an estimated value. J+ - The reported concentration is an estimated value, with high bias.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-32	SB-32	SB-32	SB-33	SB-33
Sample ID				SB-32-(5-6)	SB-32-(9-10)	SB-32-(13-14)	SB-33-(3.5-4)	SB-33-(10.5-11)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.0-6.0	9.0-10.0	13.0-14.0	3.5-4.0	10.5-11.0
Date Sampled				01/17/11	01/17/11	01/17/11	01/11/11	01/14/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	0.027 J	0.025 J			2.2
2,4-Dimethylphenol	MG/KG	-	-					0.46
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.048 J	0.056 J		0.027 J	5.5
2-Methylphenol (o-cresol)	MG/KG	0.33	500					0.21 J
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					0.57
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	0.024 J	0.075 J		0.14 J	3.4
Acenaphthylene	MG/KG	100	500	0.50	0.12 J		0.28	8.0
Acetophenone	MG/KG	-	-					0.044 J
Anthracene	MG/KG	100	500	0.15 J	0.24		0.42	14
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	0.56	0.41		1.6	16
Benzo(a)pyrene	MG/KG	1	1	1.8	0.48		1.6	17
Benzo(b)fluoranthene	MG/KG	1	5.6	1.3	0.56		2.0	21
Benzo(g,h,i)perylene	MG/KG	100	500	2.8	0.33		1.0	11
Benzo(k)fluoranthene	MG/KG	0.8	56	0.41	0.24		0.89	4.4
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.026 J	0.081 J		0.27	0.55
Butylbenzylphthalate	MG/KG	100 CP-51	-					0.076 J
Carbazole	MG/KG	-	-		0.21		0.15 J	4.8

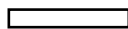
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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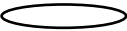
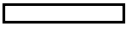
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-32	SB-32	SB-32	SB-33	SB-33
Sample ID				SB-32-(5-6)	SB-32-(9-10)	SB-32-(13-14)	SB-33-(3.5-4)	SB-33-(10.5-11)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.0-6.0	9.0-10.0	13.0-14.0	3.5-4.0	10.5-11.0
Date Sampled				01/17/11	01/17/11	01/17/11	01/11/11	01/14/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	0.64	0.38		1.6	15
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.33	0.11 J		0.29	2.9
Dibenzofuran	MG/KG	7	350	0.023 J	0.22		0.050 J	8.9
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					0.040 J
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	0.53	0.66		2.7	39
Fluorene	MG/KG	30	500	0.062 J	0.18 J		0.12 J	11
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	1.7	0.30		0.94	9.4
Naphthalene	MG/KG	12	500	0.15 J	0.32		0.047 J	25
Phenanthrene	MG/KG	100	500	0.25	0.38		1.2	46
Phenol	MG/KG	0.33	500					0.40
Pyrene	MG/KG	100	500	1.2	0.62		2.6	37
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	12.454	5.461	ND	17.454	285.6
Total Semivolatile Organic Compounds	MG/KG	-	-	12.53	5.997	ND	17.924	303.85
Metals								
Aluminum	MG/KG	10000 CP-51	-	3,690 J	10,100 J	16,700 J	6,300	5,740
Antimony	MG/KG	12 CP-51	-	0.52 J	1.5 J	1.2 J	0.40 J	2.4 J
Arsenic	MG/KG	13	16	2.0	1.8	8.0	6.1	7.3
Barium	MG/KG	350	400	42.3 J	72.3 J	34.5 J	720	118
Beryllium	MG/KG	7.2	590	0.20 J	0.21 J	0.81 J	0.29	0.23
Cadmium	MG/KG	2.5	9.3	0.096 J	0.34	0.64	0.87	2.4

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-32	SB-32	SB-32	SB-33	SB-33
Sample ID				SB-32-(5-6)	SB-32-(9-10)	SB-32-(13-14)	SB-33-(3.5-4)	SB-33-(10.5-11)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.0-6.0	9.0-10.0	13.0-14.0	3.5-4.0	10.5-11.0
Date Sampled				01/17/11	01/17/11	01/17/11	01/11/11	01/14/11
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	7,270 J	1,760 J	2,000 J	61,600 J	23,400 J
Chromium	MG/KG	30	1500	7.9 J	63.2 J	34.7 J	14.3	37.1
Cobalt	MG/KG	20 CP-51	-	3.8 J	9.0 J	11.4 J	4.5	7.5
Copper	MG/KG	50	270	21.9	25.1	15.1	27.5 J	141 J
Iron	MG/KG	2000 CP-51	-	12,900 J	20,600 J	26,900 J	11,200	41,000
Lead	MG/KG	63	1000	99.9 J	7.5 J	19.6 J	1,330	232
Magnesium	MG/KG	-	-	1,350 J	6,210 J	8,020 J	3,680 J	3,110 J
Manganese	MG/KG	1600	10000	125 J	172 J	447 J	182	263
Mercury	MG/KG	0.18	2.8	0.0070 J		0.028 J	0.20 J	0.47 J
Nickel	MG/KG	30	310	11.7 J	35.0 J	29.0 J	13.6	17.6
Potassium	MG/KG	-	-	494	3,100	3,890	1,480	927
Selenium	MG/KG	3.9	1500	0.65 J			0.60 J	0.64 J
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	275	911	4,570	393	472
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	10.4 J	31.4 J	42.2 J	19.8	32.7
Zinc	MG/KG	109	10000	41.0 J	42.5 J	76.7 J	486 J	246 J

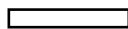
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-33	SB-34	SB-34	SB-35	SB-35
Sample ID				SB-33-(13.5-14)	SB-34-(10-11)	SB-34-(20-20.9)	01182011-FD-1	SB-35-(9.5-10.0)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				13.5-14.0	10.0-11.0	20.0-20.9	9.5-10.0	9.5-10.0
Date Sampled				01/14/11	01/14/11	01/14/11	01/18/11	01/18/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.014 J	0.015 J	0.012 J	0.012 J	0.018 J
Benzene	MG/KG	0.06	44					
Carbon disulfide	MG/KG	2.7 CP-51	-			0.0050		
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500				0.0017 J	
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500					0.0022
Xylene (total)	MG/KG	0.26	500					
Total BTEX	MG/KG	-	-	ND	ND	ND	ND	0.0022
Total Volatile Organic Compounds	MG/KG	-	-	0.014	0.015	0.017	0.0137	0.0202

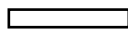
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Concentration Exceeds Criteria (1)



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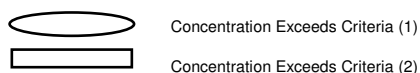
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-33	SB-34	SB-34	SB-35	SB-35
Sample ID				SB-33-(13.5-14)	SB-34-(10-11)	SB-34-(20-20.9)	01182011-FD-1	SB-35-(9.5-10.0)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				13.5-14.0	10.0-11.0	20.0-20.9	9.5-10.0	9.5-10.0
Date Sampled				01/14/11	01/14/11	01/14/11	01/18/11	01/18/11
Parameter	Units	Criteria (1)	Criteria (2)				Field Duplicate (1-1)	
				Semivolatiles Organic Compounds				
1,1'-Biphenyl	MG/KG	60 CP-51	-					
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-					
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500		0.020 J			
Acenaphthylene	MG/KG	100	500	0.034 J	0.036 J	0.036 J		
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500	0.052 J	0.036 J	0.053 J		
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	0.11 J	0.11 J	0.11 J	0.060 J	0.052 J
Benzo(a)pyrene	MG/KG	1	1	0.10 J	0.13 J	0.13 J	0.069 J	0.058 J
Benzo(b)fluoranthene	MG/KG	1	5.6	0.13 J	0.17 J	0.16 J	0.082 J	0.069 J
Benzo(g,h,i)perylene	MG/KG	100	500	0.066 J	0.092 J	0.085 J	0.056 J	0.057 J
Benzo(k)fluoranthene	MG/KG	0.8	56	0.053 J	0.061 J	0.058 J	0.037 J	0.035 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-				0.058 J	0.033 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-33	SB-34	SB-34	SB-35	SB-35
Sample ID				SB-33-(13.5-14)	SB-34-(10-11)	SB-34-(20-20.9)	01182011-FD-1	SB-35-(9.5-10.0)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				13.5-14.0	10.0-11.0	20.0-20.9	9.5-10.0	9.5-10.0
Date Sampled				01/14/11	01/14/11	01/14/11	01/18/11	01/18/11
Parameter	Units	Criteria (1)	Criteria (2)				Field Duplicate (1-1)	
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	0.094 J	0.12 J	0.11 J	0.057 J	0.053 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.019 J	0.024 J			
Dibenzofuran	MG/KG	7	350	0.023 J		0.028 J		
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	0.20	0.18 J	0.19 J	0.082 J	0.073 J
Fluorene	MG/KG	30	500	0.034 J		0.036 J		
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.060 J	0.078 J	0.088 J	0.047 J	0.040 J
Naphthalene	MG/KG	12	500	0.021 J	0.033 J	0.088 J		
Phenanthrene	MG/KG	100	500	0.13 J	0.11 J	0.17 J	0.052 J	0.043 J
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	0.19	0.19	0.19 J	0.083 J	0.076 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	1.293	1.39	1.504	0.625	0.556
Total Semivolatile Organic Compounds	MG/KG	-	-	1.316	1.39	1.532	0.683	0.589
Metals								
Aluminum	MG/KG	10000 CP-51	-	8,430	9,950	15,200	5,580 J	5,690 J
Antimony	MG/KG	12 CP-51	-		0.43 J	0.47 J	0.48 J	0.37 J
Arsenic	MG/KG	13	16	1.7	3.8	11.6		
Barium	MG/KG	350	400	42.8	73.3	33.6	33.7 J	36.9 J
Beryllium	MG/KG	7.2	590	0.55	0.69	0.75	0.45 J	0.41 J
Cadmium	MG/KG	2.5	9.3	0.49	0.93	1.1		0.099 J

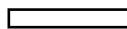
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

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J - The reported concentration is an estimated value. J+ - The reported concentration is an estimated value, with high bias.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-33	SB-34	SB-34	SB-35	SB-35
Sample ID				SB-33-(13.5-14)	SB-34-(10-11)	SB-34-(20-20.9)	01182011-FD-1	SB-35-(9.5-10.0)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				13.5-14.0	10.0-11.0	20.0-20.9	9.5-10.0	9.5-10.0
Date Sampled				01/14/11	01/14/11	01/14/11	01/18/11	01/18/11
Parameter	Units	Criteria (1)	Criteria (2)				Field Duplicate (1-1)	
Metals								
Calcium	MG/KG	10000 CP-51	-	20,600 J	15,900 J	1,950 J	46,000 J	31,800 J
Chromium	MG/KG	30	1500	15.9	19.5	30.9	11.1 J	11.4 J
Cobalt	MG/KG	20 CP-51	-	9.3	10.4	10.4	7.4 J	6.2 J
Copper	MG/KG	50	270	15.8 J	36.3 J	16.0 J	16.0	13.5
Iron	MG/KG	2000 CP-51	-	14,400	15,700	34,400	10,400 J	9,110 J
Lead	MG/KG	63	1000	9.0	129	16.2	16.7 J	9.6 J
Magnesium	MG/KG	-	-	14,700 J	8,950 J	7,250 J	29,900 J	21,000 J
Manganese	MG/KG	1600	10000	317	305	469	272 J	461 J
Mercury	MG/KG	0.18	2.8	0.13 J	0.20 J	0.044 J	0.040 J	0.067 J
Nickel	MG/KG	30	310	13.6	22.1	25.0	10.4 J	11.1 J
Potassium	MG/KG	-	-	1,050	1,440	3,710	1,110	1,270
Selenium	MG/KG	3.9	1500	0.92 J	1.2	2.6		
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	468	406	4,360	322	322
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	23.8	26.2	40.1	17.9 J	17.6 J
Zinc	MG/KG	109	10000	41.3 J	86.6 J	71.6 J	38.1 J	33.2 J

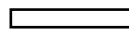
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

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D - Result reported from a secondary dilution analysis.

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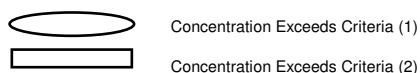
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-35	SB-36	SB-36	SB-36	SB-36
Sample ID				SB-35-(17.2-17.8)	01132011-FD-1	SB-36-(3-4)	SB-36-(6.5-7)	SB-36-(13.5-14.2)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				17.2-17.8	3.0-4.0	3.0-4.0	6.5-7.0	13.5-14.2
Date Sampled				01/18/11	01/13/11	01/13/11	01/17/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500	0.0033 J			0.0038 J	
Acetone	MG/KG	0.05	500	0.028 J	0.014 J		0.020 J	0.014 J
Benzene	MG/KG	0.06	44				0.0021 J	
Carbon disulfide	MG/KG	2.7 CP-51	-	0.0022 J	0.0012 J			0.0050
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500				0.0015 J	
Xylene (total)	MG/KG	0.26	500					
Total BTEX	MG/KG	-	-	ND	ND	ND	0.0036	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.0335	0.0152	ND	0.0274	0.019

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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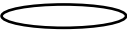
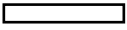
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-35	SB-36	SB-36	SB-36	SB-36
Sample ID				SB-35-(17.2-17.8)	01132011-FD-1	SB-36-(3-4)	SB-36-(6.5-7)	SB-36-(13.5-14.2)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				17.2-17.8	3.0-4.0	3.0-4.0	6.5-7.0	13.5-14.2
Date Sampled				01/18/11	01/13/11	01/13/11	01/17/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-		3.6 J	0.94	0.028 J	
2,4-Dimethylphenol	MG/KG	-	-		0.40	0.19		
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-		11	3.0	0.12 J	
2-Methylphenol (o-cresol)	MG/KG	0.33	500		0.23	0.12 J		
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500		0.64	0.27	0.025 J	
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500		7.5 J	2.0	0.052 J	
Acenaphthylene	MG/KG	100	500		25	6.8	1.4	
Acetophenone	MG/KG	-	-		0.048 J	0.023 J	0.074 J	
Anthracene	MG/KG	100	500	0.068 J	38	11	0.49	
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	0.14 J	58	17	1.4	
Benzo(a)pyrene	MG/KG	1	1	0.14 J	50	14	1.6	
Benzo(b)fluoranthene	MG/KG	1	5.6	0.19 J	66	17	3.3	
Benzo(g,h,i)perylene	MG/KG	100	500	0.096 J	30	8.3	2.3	
Benzo(k)fluoranthene	MG/KG	0.8	56	0.087 J	21	6.8	1.1	
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-				0.046 J	
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-		12	3.4 J	0.066 J	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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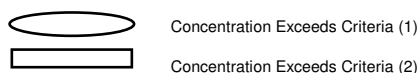
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-35	SB-36	SB-36	SB-36	SB-36
Sample ID				SB-35-(17.2-17.8)	01132011-FD-1	SB-36-(3-4)	SB-36-(6.5-7)	SB-36-(13.5-14.2)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				17.2-17.8	3.0-4.0	3.0-4.0	6.5-7.0	13.5-14.2
Date Sampled				01/18/11	01/13/11	01/13/11	01/17/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	0.13 J	51	14	1.7	
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.031 J	6.3 J	2.5	0.60	
Dibenzofuran	MG/KG	7	350		19	5.5		
Di-n-butylphthalate	MG/KG	0.014 CP-51	-				0.054 J	
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	0.21	130	39	1.6	0.052 J
Fluorene	MG/KG	30	500	0.032 J	26	7.8	0.14 J	
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.091 J	27	7.6	2.0 J	
Naphthalene	MG/KG	12	500		21	7.5	0.23	
Phenanthrene	MG/KG	100	500	0.15 J	140	39	0.61	0.055 J
Phenol	MG/KG	0.33	500		0.39	0.15 J		
Pyrene	MG/KG	100	500	0.19 J	120	35	2.0	0.048 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	1.555	827.8	238.3	20.642	0.155
Total Semivolatile Organic Compounds	MG/KG	-	-	1.555	864.108	248.893	20.935	0.155
Metals								
Aluminum	MG/KG	10000 CP-51	-	14,000 J	8,680	10,800	4,710 J	14,700 J
Antimony	MG/KG	12 CP-51	-	1.3 J	0.66 J	0.86 J	1.7 J	0.67 J
Arsenic	MG/KG	13	16	1.2	3.9	4.2	9.2	11.1
Barium	MG/KG	350	400	59.6 J	73.3	87.9	230 J	28.5 J
Beryllium	MG/KG	7.2	590	0.48 J	0.26	0.35	0.16 J	0.73 J
Cadmium	MG/KG	2.5	9.3	0.40	0.75	0.97	1.0	0.69

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TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-35	SB-36	SB-36	SB-36	SB-36
Sample ID				SB-35-(17.2-17.8)	01132011-FD-1	SB-36-(3-4)	SB-36-(6.5-7)	SB-36-(13.5-14.2)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				17.2-17.8	3.0-4.0	3.0-4.0	6.5-7.0	13.5-14.2
Date Sampled				01/18/11	01/13/11	01/13/11	01/17/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Metals								
Calcium	MG/KG	10000 CP-51	-	1,150 J	4,190 J	3,170 J	11,100 J	1,930 J
Chromium	MG/KG	30	1500	27.9 J	23.4	27.0	15.9 J	31.1 J
Cobalt	MG/KG	20 CP-51	-	9.4 J	7.7	8.2	4.7 J	11.0 J
Copper	MG/KG	50	270	17.5	46.9 J	115 J	85.4	13.9
Iron	MG/KG	2000 CP-51	-	19,400 J	17,800	20,800	24,000 J	32,400 J
Lead	MG/KG	63	1000	10.9 J	85.1	96.2	355 J	13.6 J
Magnesium	MG/KG	-	-	5,870 J	4,380 J	4,580 J	1,820 J	7,250 J
Manganese	MG/KG	1600	10000	251 J	132	171	166 J	553 J
Mercury	MG/KG	0.18	2.8	0.039 J	0.16 J	0.21 J	0.61 J	0.0090 J
Nickel	MG/KG	30	310	21.2 J	19.2	20.2	13.8 J	25.8 J
Potassium	MG/KG	-	-	2,010	1,790	2,420	1,440	3,360
Selenium	MG/KG	3.9	1500		1.4	1.3 J	0.95 J	
Silver	MG/KG	2	1500				0.37 J	
Sodium	MG/KG	-	-	1,430	194	206	409	3,730
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	31.8 J	27.0	34.0	35.3 J	37.8 J
Zinc	MG/KG	109	10000	57.6 J	113 J	142 J	230 J	72.7 J

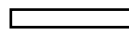
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Concentration Exceeds Criteria (1)



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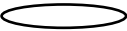
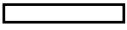
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-37	SB-37	SB-37	SB-37	SB-38
Sample ID				SB-37-(3-4)	SB-37-(8.5-9)	SB-37-(8.2-9.0)	SB-37-(13.5-14.5)	SB-38-(4-5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	8.5-9.0	8.2-9.0	13.5-14.5	4.0-5.0
Date Sampled				01/06/11	01/06/11	01/11/11	01/11/11	01/06/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500			0.0078 J		
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500			0.11 J	0.013 J	
Benzene	MG/KG	0.06	44			0.026 J		0.0016 J
Carbon disulfide	MG/KG	2.7 CP-51	-			0.0088 J		
Chloroform	MG/KG	0.37	350		0.11 J			
Cyclohexane	MG/KG	-	-		2.0	0.49 J		
Ethylbenzene	MG/KG	1	390		2.8	8.6 J		
Isopropylbenzene	MG/KG	2.3 CP-51	-		0.41	0.61 J		
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-		1.6	0.67 J		
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500			0.082 J		0.0018 J
Xylene (total)	MG/KG	0.26	500		0.33 J	4.6 J		
Total BTEX	MG/KG	-	-	ND	3.13	13.308	ND	0.0034
Total Volatile Organic Compounds	MG/KG	-	-	ND	7.25	15.2046	0.013	0.0034

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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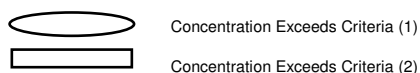
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-37	SB-37	SB-37	SB-37	SB-38
Sample ID				SB-37-(3-4)	SB-37-(8.5-9)	SB-37-(8.2-9.0)	SB-37-(13.5-14.5)	SB-38-(4-5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	8.5-9.0	8.2-9.0	13.5-14.5	4.0-5.0
Date Sampled				01/06/11	01/06/11	01/11/11	01/11/11	01/06/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	0.37				0.071 J
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	1.2				0.43
2-Methylphenol (o-cresol)	MG/KG	0.33	500	0.021 J				0.042 J
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500	0.054 J				0.14 J
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	0.78	6.1	3.3		0.15 J
Acenaphthylene	MG/KG	100	500	2.7	3.8			3.6
Acetophenone	MG/KG	-	-	0.038 J	0.85 J			0.12 J
Anthracene	MG/KG	100	500	2.9	2.4	1.5		2.0
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	6.3	3.6	0.72 J		7.1
Benzo(a)pyrene	MG/KG	1	1	5.7	2.0 J	0.54 J		6.4
Benzo(b)fluoranthene	MG/KG	1	5.6	7.1	7.1	0.50 J		11
Benzo(g,h,i)perylene	MG/KG	100	500	3.8	3.7	0.36 J		7.4
Benzo(k)fluoranthene	MG/KG	0.8	56	1.7	3.5	0.45 J		2.5
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.30	0.36 J			0.15 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	1.1	0.40 J			0.19 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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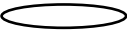
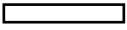
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-37	SB-37	SB-37	SB-37	SB-38
Sample ID				SB-37-(3-4)	SB-37-(8.5-9)	SB-37-(8.2-9.0)	SB-37-(13.5-14.5)	SB-38-(4-5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	8.5-9.0	8.2-9.0	13.5-14.5	4.0-5.0
Date Sampled				01/06/11	01/06/11	01/11/11	01/11/11	01/06/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	5.5	6.9	1.6 J		7.4
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	1.0	1.4 J	0.12 J		1.7
Dibenzofuran	MG/KG	7	350	1.8	3.0	1.7 J		0.21
Di-n-butylphthalate	MG/KG	0.014 CP-51	-	0.059 J				0.035 J
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	15	3.0	1.5 J		8.7
Fluorene	MG/KG	30	500	2.3	6.2	3.6		0.29
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	3.3	3.2 J	0.29 J		6.0 J
Naphthalene	MG/KG	12	500	3.6	0.80 J	0.54		1.9
Phenanthrene	MG/KG	100	500	15	10	5.8		3.0
Phenol	MG/KG	0.33	500	0.033 J				0.047 J
Pyrene	MG/KG	100	500	14	5.5	2.8 J		14
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	91.88	69.2	23.62	ND	83.57
Total Semivolatile Organic Compounds	MG/KG	-	-	95.655	73.81	25.32	ND	84.575
Metals								
Aluminum	MG/KG	10000 CP-51	-	7,020	3,310	2,670	12,900	9,990
Antimony	MG/KG	12 CP-51	-	2.8 J	1.0 J		0.66 J	1.3 J
Arsenic	MG/KG	13	16	9.2	4.1	3.9	4.2	5.6
Barium	MG/KG	350	400	367	67.4	84.3	31.7	69.3
Beryllium	MG/KG	7.2	590	0.47	0.19 J	0.17 J	0.41	0.40
Cadmium	MG/KG	2.5	9.3	2.4 J	0.12 J	0.39	0.54	0.66 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

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D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

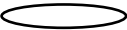
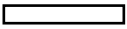
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-37	SB-37	SB-37	SB-37	SB-38
Sample ID				SB-37-(3-4)	SB-37-(8.5-9)	SB-37-(8.2-9.0)	SB-37-(13.5-14.5)	SB-38-(4-5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	8.5-9.0	8.2-9.0	13.5-14.5	4.0-5.0
Date Sampled				01/06/11	01/06/11	01/11/11	01/11/11	01/06/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Metals								
Calcium	MG/KG	10000 CP-51	-	20,500 J	567 J	1,870 J	1,060 J	3,630 J
Chromium	MG/KG	30	1500	28.0	13.9	6.8	19.2	22.8
Cobalt	MG/KG	20 CP-51	-	7.3 J	1.5 J	3.3	8.2	4.4 J
Copper	MG/KG	50	270	148	26.7	58.3 J	13.3 J	72.9
Iron	MG/KG	2000 CP-51	-	34,900 J	12,800 J	14,000	20,100	18,200 J
Lead	MG/KG	63	1000	762 J	54.6 J	20.7	7.7	169 J
Magnesium	MG/KG	-	-	4,370	1,080	515 J	3,620 J	5,740
Manganese	MG/KG	1600	10000	333	38.0	61.4	816	156
Mercury	MG/KG	0.18	2.8	1.0	0.44	0.15 J	0.0094 J	0.70
Nickel	MG/KG	30	310	23.0	9.2	6.8	14.5	18.0
Potassium	MG/KG	-	-	2,270	613	1,170	1,010	2,360
Selenium	MG/KG	3.9	1500			1.1	1.2 J	
Silver	MG/KG	2	1500	0.16 J	0.085 J			0.080 J
Sodium	MG/KG	-	-	347	74.2	75.6	916	285
Thallium	MG/KG	5 CP-51	-	0.99	0.56 J			0.47 J
Vanadium	MG/KG	39 CP-51	-	22.9	21.5	13.3	26.2	33.1
Zinc	MG/KG	109	10000	556 J	26.3 J	26.5 J	33.0 J	169 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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 Concentration Exceeds Criteria (1)
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J - The reported concentration is an estimated value. J+ - The reported concentration is an estimated value, with high bias.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-38	SB-38	SB-38	SB-39	SB-39
Sample ID				SB-38-(7.8-8.5)	SB-38-(11-11.5)	SB-38-(15.5-16.5)	SB-39-(3.5-4)	SB-39-(5-5.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.8-8.5	11.0-11.5	15.5-16.5	3.5-4.0	5.0-5.5
Date Sampled				01/11/11	01/11/11	01/11/11	01/07/11	01/07/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500			0.0057 J		
Acetone	MG/KG	0.05	500	0.019 J		0.032 J		0.059 J
Benzene	MG/KG	0.06	44	0.0074		0.0019 J		0.035
Carbon disulfide	MG/KG	2.7 CP-51	-			0.041		
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					0.091
Ethylbenzene	MG/KG	1	390	0.019				
Isopropylbenzene	MG/KG	2.3 CP-51	-	0.0048	1.0			0.24
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500			0.0022 J		
Methylcyclohexane	MG/KG	-	-	0.0042 J	1.3			0.36
Methylene chloride	MG/KG	0.05	500			0.0017 J		
Styrene	MG/KG	300 CP-51	-	0.048				
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500	0.017		0.0069		0.016 J
Xylene (total)	MG/KG	0.26	500	0.083				
Total BTEX	MG/KG	-	-	0.1264	ND	0.0088	ND	0.051
Total Volatile Organic Compounds	MG/KG	-	-	0.2024	2.3	0.0914	ND	0.801

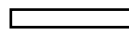
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

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Only Detected Results Reported.

**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-38	SB-38	SB-38	SB-39	SB-39
Sample ID				SB-38-(7.8-8.5)	SB-38-(11-11.5)	SB-38-(15.5-16.5)	SB-39-(3.5-4)	SB-39-(5-5.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.8-8.5	11.0-11.5	15.5-16.5	3.5-4.0	5.0-5.5
Date Sampled				01/11/11	01/11/11	01/11/11	01/07/11	01/07/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	54 J				
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	520	43			12
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	17	2.6			9.1
Acenaphthylene	MG/KG	100	500	29			0.73 J	
Acetophenone	MG/KG	-	-	24				
Anthracene	MG/KG	100	500	45 J	1.5		0.60 J	4.3
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	150	1.7		2.4	3.4
Benzo(a)pyrene	MG/KG	1	1	65 J	1.4		2.4	1.7 J
Benzo(b)fluoranthene	MG/KG	1	5.6	120	1.2		3.6	1.3 J
Benzo(g,h,i)perylene	MG/KG	100	500	56 J	1.1		1.9 J	0.74 J
Benzo(k)fluoranthene	MG/KG	0.8	56	24	1.1		1.3 J	0.49 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-					0.45 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-				0.22 J	

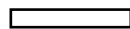
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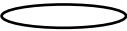
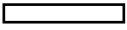
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-38	SB-38	SB-38	SB-39	SB-39
Sample ID				SB-38-(7.8-8.5)	SB-38-(11-11.5)	SB-38-(15.5-16.5)	SB-39-(3.5-4)	SB-39-(5-5.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.8-8.5	11.0-11.5	15.5-16.5	3.5-4.0	5.0-5.5
Date Sampled				01/11/11	01/11/11	01/11/11	01/07/11	01/07/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	160	2.3		2.5	5.2
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	15	0.33		0.48 J	0.33 J
Dibenzofuran	MG/KG	7	350	14	1.3			
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	190	1.7		4.5	3.8
Fluorene	MG/KG	30	500	88	3.8 J		0.22 J	11
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	44 J	0.87		1.7 J	0.58 J
Naphthalene	MG/KG	12	500	1,100	4.7			
Phenanthrene	MG/KG	100	500	420	10		2.3	23
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	300	3.6 J		4.4	9.1
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	3,343	80.9	ND	29.03	86.04
Total Semivolatile Organic Compounds	MG/KG	-	-	3,435	82.2	ND	29.25	86.49
Metals								
Aluminum	MG/KG	10000 CP-51	-	2,220	11,600	14,100	6,290	7,180
Antimony	MG/KG	12 CP-51	-	3.2 J	0.38 J		1.2 J	0.99 J
Arsenic	MG/KG	13	16	32.7	1.5	8.6	3.9	1.7
Barium	MG/KG	350	400	88.6	144	31.0	142	58.9
Beryllium	MG/KG	7.2	590	0.039 J		0.72	0.35	0.39
Cadmium	MG/KG	2.5	9.3	2.7	0.78	0.84	1.0 J	1.2 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-38	SB-38	SB-38	SB-39	SB-39
Sample ID				SB-38-(7.8-8.5)	SB-38-(11-11.5)	SB-38-(15.5-16.5)	SB-39-(3.5-4)	SB-39-(5-5.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.8-8.5	11.0-11.5	15.5-16.5	3.5-4.0	5.0-5.5
Date Sampled				01/11/11	01/11/11	01/11/11	01/07/11	01/07/11
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	725 J	6,630 J	1,720 J	29,000 J	9,230 J
Chromium	MG/KG	30	1500	14.2	15.4	29.1	15.5	25.0
Cobalt	MG/KG	20 CP-51	-	4.8	10.1	10	4.4 J	6.7 J
Copper	MG/KG	50	270	319 J	37.3 J	12.4 J	34.2	35.6
Iron	MG/KG	2000 CP-51	-	62,200	24,100	29,300	10,700 J	16,400 J
Lead	MG/KG	63	1000	275	8.1	12.4	163 J	55.2 J
Magnesium	MG/KG	-	-	1,470 J	5,320 J	6,860 J	2,930	5,420
Manganese	MG/KG	1600	10000	211	554	421	261	151
Mercury	MG/KG	0.18	2.8	0.58 J	0.042 J	0.017 J	0.58	0.32
Nickel	MG/KG	30	310	9.7	11.5	23.7	14.2	21.0
Potassium	MG/KG	-	-	868	6,460	3,070	1,990	2,050
Selenium	MG/KG	3.9	1500	4.2	0.94 J	2.2 J		
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	292	270	4,680	281	141
Thallium	MG/KG	5 CP-51	-	0.84 J				
Vanadium	MG/KG	39 CP-51	-	24.1	45.8	37.7	19.0	27.2
Zinc	MG/KG	109	10000	162 J	44.0 J	69.1 J	136 J	130 J

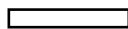
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Concentration Exceeds Criteria (2)

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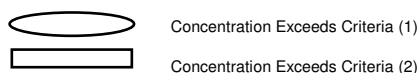
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-39	SB-39	SB-40	SB-40	SB-41
Sample ID				SB-39-(6.7-7.7)	SB-39-(14-15)	SB-40-(9.5-10)	SB-40-(13.5-14.5)	SB-41 (0.5-1.0)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.7-7.7	14.0-15.0	9.5-10.0	13.5-14.5	0.5-1.0
Date Sampled				01/17/11	01/17/11	01/14/11	01/14/11	02/18/14
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500				0.0062 J	
Acetone	MG/KG	0.05	500		0.011 J		0.030 J	
Benzene	MG/KG	0.06	44	0.31 J				
Carbon disulfide	MG/KG	2.7 CP-51	-		0.014			
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-	0.43				
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-	1.2				
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-	2.2				
Methylene chloride	MG/KG	0.05	500		0.0017 J			
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500					
Xylene (total)	MG/KG	0.26	500					0.0092 J
Total BTEX	MG/KG	-	-	0.31	ND	ND	ND	0.0092
Total Volatile Organic Compounds	MG/KG	-	-	4.14	0.0267	ND	0.0362	0.0092

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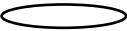
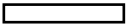
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-39	SB-39	SB-40	SB-40	SB-41
Sample ID				SB-39-(6.7-7.7)	SB-39-(14-15)	SB-40-(9.5-10)	SB-40-(13.5-14.5)	SB-41 (0.5-1.0)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.7-7.7	14.0-15.0	9.5-10.0	13.5-14.5	0.5-1.0
Date Sampled				01/17/11	01/17/11	01/14/11	01/14/11	02/18/14
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-					
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	70				0.075 J
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	8.4		2.4	0.020 J	
Acenaphthylene	MG/KG	100	500					0.59
Acetophenone	MG/KG	-	-					0.064 J
Anthracene	MG/KG	100	500	2.6		0.69		0.21 J
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	1.4 J		0.45		0.65
Benzo(a)pyrene	MG/KG	1	1	0.76 J		0.26		0.74
Benzo(b)fluoranthene	MG/KG	1	5.6	0.88 J		0.25		1.1
Benzo(g,h,i)perylene	MG/KG	100	500			0.14 J		0.85
Benzo(k)fluoranthene	MG/KG	0.8	56	0.43 J		0.078 J		0.48
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-					
Butylbenzylphthalate	MG/KG	100 CP-51	-					0.043 J
Carbazole	MG/KG	-	-	1.0 J				0.071 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

	Concentration Exceeds Criteria (1)
	Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

Blank cell or ND - Not detected. NA - Not analyzed.

J - The reported concentration is an estimated value. J+ - The reported concentration is an estimated value, with high bias.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-39	SB-39	SB-40	SB-40	SB-41
Sample ID				SB-39-(6.7-7.7)	SB-39-(14-15)	SB-40-(9.5-10)	SB-40-(13.5-14.5)	SB-41 (0.5-1.0)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.7-7.7	14.0-15.0	9.5-10.0	13.5-14.5	0.5-1.0
Date Sampled				01/17/11	01/17/11	01/14/11	01/14/11	02/18/14
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	1.5 J		0.97		0.86
Dibenz(a,h)anthracene	MG/KG	0.33	0.56			0.059 J		0.17 J
Dibenzofuran	MG/KG	7	350	4.1		0.78		
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					0.26 J
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	2.7		0.70	0.020 J	0.83
Fluorene	MG/KG	30	500	10		2.4		
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.36 J		0.098 J		0.82
Naphthalene	MG/KG	12	500	8.5		0.47	0.052 J	0.090 J
Phenanthrene	MG/KG	100	500	19		2.2		0.34 J
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	5.7		1.7		1.0
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	132.23	ND	12.865	0.092	8.805
Total Semivolatile Organic Compounds	MG/KG	-	-	137.33	ND	13.645	0.092	9.243
Metals								
Aluminum	MG/KG	10000 CP-51	-	9,440 J	11,200 J	1,330	14,600	2,840
Antimony	MG/KG	12 CP-51	-	1.0 J	0.76 J		0.63 J	0.53 J
Arsenic	MG/KG	13	16	1.3	9.1	2.9	2.5	6.2
Barium	MG/KG	350	400	38.5 J	22.3 J	54.1	87.2	88.1
Beryllium	MG/KG	7.2	590	0.31 J	0.55 J	0.064 J	0.69	0.28
Cadmium	MG/KG	2.5	9.3	0.26	0.49	0.16 J	1.0	0.28

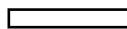
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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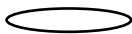
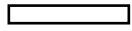
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-39	SB-39	SB-40	SB-40	SB-41
Sample ID				SB-39-(6.7-7.7)	SB-39-(14-15)	SB-40-(9.5-10)	SB-40-(13.5-14.5)	SB-41 (0.5-1.0)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.7-7.7	14.0-15.0	9.5-10.0	13.5-14.5	0.5-1.0
Date Sampled				01/17/11	01/17/11	01/14/11	01/14/11	02/18/14
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	2,540 J	3,230 J	938 J	1,460 J	21,800
Chromium	MG/KG	30	1500	17.5 J	23.4 J	6.9	41.6	6.2
Cobalt	MG/KG	20 CP-51	-	10.7 J	8.2 J	1.7 J	15.6	22.2
Copper	MG/KG	50	270	15.9	10.1	23.6 J	27.6 J	34.3
Iron	MG/KG	2000 CP-51	-	12,300 J	38,600 J	6,900	33,700	6,550
Lead	MG/KG	63	1000	6.3 J	10.4 J	30.2	10.3	154
Magnesium	MG/KG	-	-	4,280 J	5,830 J	412 J	6,200 J	1,940
Manganese	MG/KG	1600	10000	181 J	388 J	22.6	368	57.0
Mercury	MG/KG	0.18	2.8	0.0098 J	0.0073 J	0.014 J	0.018 J	0.20
Nickel	MG/KG	30	310	20.1 J	19.6 J	6.0	26.8	9.8
Potassium	MG/KG	-	-	1,670	2,620	412	2,770	600
Selenium	MG/KG	3.9	1500			1.4 J	1.5	0.61 J
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	185	3,400	93.7	1,500	937
Thallium	MG/KG	5 CP-51	-					0.34 J
Vanadium	MG/KG	39 CP-51	-	22.9 J	31.1 J	8.6	45.2	12.3
Zinc	MG/KG	109	10000	96.3 J	53.4 J	18.9 J	63.2 J	116

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

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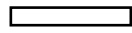
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-41	SB-41	SB-42	SB-42	SB-42
Sample ID				SB-41 (7-9)	SB-41 (9-11)	DUP021914	SB-42 (0.5-1.0)	SB-42 (18.5-19.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.0-9.0	9.0-11.0	0.5-1.0	0.5-1.0	18.5-19.5
Date Sampled				02/18/14	02/18/14	02/19/14	02/19/14	02/21/14
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-		NA			
1,2-Dichlorobenzene	MG/KG	1.1	500		NA			
1,2-Dichloroethene (cis)	MG/KG	0.25	500		NA			
2-Butanone	MG/KG	0.12	500		NA			
Acetone	MG/KG	0.05	500	0.0054 J	NA	0.0065 J	0.012 J	
Benzene	MG/KG	0.06	44	0.0024 J	NA			2.5
Carbon disulfide	MG/KG	2.7 CP-51	-		NA			
Chloroform	MG/KG	0.37	350		NA			
Cyclohexane	MG/KG	-	-		NA			
Ethylbenzene	MG/KG	1	390		NA			8.2
Isopropylbenzene	MG/KG	2.3 CP-51	-		NA			1.0
Methyl acetate	MG/KG	-	-		NA			
Methyl tert-butyl ether	MG/KG	0.93	500		NA			
Methylcyclohexane	MG/KG	-	-		NA			
Methylene chloride	MG/KG	0.05	500		NA			
Styrene	MG/KG	300 CP-51	-		NA			5.0
Tetrachloroethene	MG/KG	1.3	150		NA			
Toluene	MG/KG	0.7	500		NA			5.8
Xylene (total)	MG/KG	0.26	500		NA			17
Total BTEX	MG/KG	-	-	0.0024	NA	ND	ND	33.5
Total Volatile Organic Compounds	MG/KG	-	-	0.0078	NA	0.0065	0.012	39.5

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

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 Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

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D - Result reported from a secondary dilution analysis.

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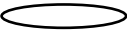
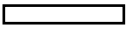
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-41	SB-41	SB-42	SB-42	SB-42
Sample ID				SB-41 (7-9)	SB-41 (9-11)	DUP021914	SB-42 (0.5-1.0)	SB-42 (18.5-19.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.0-9.0	9.0-11.0	0.5-1.0	0.5-1.0	18.5-19.5
Date Sampled				02/18/14	02/18/14	02/19/14	02/19/14	02/21/14
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	NA	0.078 J	0.47	0.42	17 J
2,4-Dimethylphenol	MG/KG	-	-	NA				
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-	NA				
2-Chloronaphthalene	MG/KG	-	-	NA				
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	NA	0.69	0.20 J	0.13 J	240 D
2-Methylphenol (o-cresol)	MG/KG	0.33	500	NA				
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500	NA				0.13 J
3,3'-Dichlorobenzidine	MG/KG	-	-	NA				
Acenaphthene	MG/KG	20	500	NA	5.9 D	0.75	0.59	9.0 J
Acenaphthylene	MG/KG	100	500	NA	3.2	4.8 DJ	2.4 J	98 DJ
Acetophenone	MG/KG	-	-	NA				
Anthracene	MG/KG	100	500	NA	4.9 D	3.7 DJ	2.6	32 DJ
Benzaldehyde	MG/KG	-	-	NA				
Benzo(a)anthracene	MG/KG	1	5.6	NA	11 D	4.5 D	2.9	33 DJ
Benzo(a)pyrene	MG/KG	1	1	NA	10 D	3.3 DJ	2.1	21 DJ
Benzo(b)fluoranthene	MG/KG	1	5.6	NA	12 D	4.4 DJ	2.2 J	13 DJ
Benzo(g,h,i)perylene	MG/KG	100	500	NA	9.4 D	2.5 J	1.1 J	6.7 J
Benzo(k)fluoranthene	MG/KG	0.8	56	NA	5.0 D	2.2 J	0.95 J	5.5 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	NA				
Butylbenzylphthalate	MG/KG	100 CP-51	-	NA	0.071 J			
Carbazole	MG/KG	-	-	NA	0.16 J	0.18 J	0.069 J	0.31 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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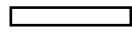
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-41	SB-41	SB-42	SB-42	SB-42
Sample ID				SB-41 (7-9)	SB-41 (9-11)	DUP021914	SB-42 (0.5-1.0)	SB-42 (18.5-19.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.0-9.0	9.0-11.0	0.5-1.0	0.5-1.0	18.5-19.5
Date Sampled				02/18/14	02/18/14	02/19/14	02/19/14	02/21/14
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	NA	17 D	5.1 DJ	2.9 J	27 DJ
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	NA	2.2	0.64 J	0.33 J	2.1
Dibenzofuran	MG/KG	7	350	NA	0.27 J	0.41	0.29 J	
Di-n-butylphthalate	MG/KG	0.014 CP-51	-	NA	0.12 J	0.10 J	0.10 J	
Di-n-octylphthalate	MG/KG	100 CP-51	-	NA				
Fluoranthene	MG/KG	100	500	NA	15 D	7.5 DJ	4.0 DJ	38 DJ
Fluorene	MG/KG	30	500	NA	2.1	4.1 D	2.6	41 DJ
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	NA	8.3 D	2.6 J	1.2 J	6.3 J
Naphthalene	MG/KG	12	500	NA	3.3	0.50	0.48	710 D
Phenanthrene	MG/KG	100	500	NA	8.1 D	13 D	8.2 D	140 DJ
Phenol	MG/KG	0.33	500	NA				0.13 J
Pyrene	MG/KG	100	500	NA	22 D	11 DJ	6.6 DJ	42 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	NA	140.09	70.79	41.28	1,464.6
Total Semivolatile Organic Compounds	MG/KG	-	-	NA	140.789	71.95	42.159	1,482.17
Metals								
Aluminum	MG/KG	10000 CP-51	-	NA	6,100	6,480	7,100	11,100
Antimony	MG/KG	12 CP-51	-	NA			1.7 J	
Arsenic	MG/KG	13	16	NA	13.3	12.0	10.4	1.8
Barium	MG/KG	350	400	NA	64.4	145	135	69.0
Beryllium	MG/KG	7.2	590	NA	0.28	0.44	0.46	
Cadmium	MG/KG	2.5	9.3	NA	0.33			0.46

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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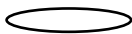
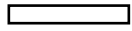
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-41	SB-41	SB-42	SB-42	SB-42
Sample ID				SB-41 (7-9)	SB-41 (9-11)	DUP021914	SB-42 (0.5-1.0)	SB-42 (18.5-19.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				7.0-9.0	9.0-11.0	0.5-1.0	0.5-1.0	18.5-19.5
Date Sampled				02/18/14	02/18/14	02/19/14	02/19/14	02/21/14
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Metals								
Calcium	MG/KG	10000 CP-51	-	NA	5,420	4,140	5,080	1,320
Chromium	MG/KG	30	1500	NA	13.2	15.5	24.8 J	48.2
Cobalt	MG/KG	20 CP-51	-	NA	3.1	10.7	13.3	11.1
Copper	MG/KG	50	270	NA	65.4	54.5	53.5	34.0
Iron	MG/KG	2000 CP-51	-	NA	20,500	21,500	18,500	21,700
Lead	MG/KG	63	1000	NA	335	134	144	2.1
Magnesium	MG/KG	-	-	NA	3,860	2,230	2,790	6,580
Manganese	MG/KG	1600	10000	NA	140	128	127	545
Mercury	MG/KG	0.18	2.8	NA	0.28	0.18	0.13	
Nickel	MG/KG	30	310	NA	21.2	15.3	17.7	39.6
Potassium	MG/KG	-	-	NA	719	1,460	1,590	5,120
Selenium	MG/KG	3.9	1500	NA		2.1		0.62 J
Silver	MG/KG	2	1500	NA				0.40 J
Sodium	MG/KG	-	-	NA	479	685	681	168
Thallium	MG/KG	5 CP-51	-	NA				
Vanadium	MG/KG	39 CP-51	-	NA	50.7	24.3	26.6	47.3
Zinc	MG/KG	109	10000	NA	133	103	105	52.2

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Only Detected Results Reported.

**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-43	SB-43	SB-44	SB-44	SB-44
Sample ID				SB-43 (1-2)	SB-43 (10-12)	SB-44 (1.5-2)	SB-44 (10-12)	SB-44 (15-20)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-2.0	10.0-12.0	1.5-2.0	10.0-12.0	15.0-20.0
Date Sampled				02/19/14	02/19/14	02/19/14	02/21/14	02/21/14
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichlorobenzene	MG/KG	1.1	500					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500			0.0071 J		
Acetone	MG/KG	0.05	500			0.040 J		
Benzene	MG/KG	0.06	44	0.0014 J	1,600	0.0030	2,600	2,000
Carbon disulfide	MG/KG	2.7 CP-51	-					
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390		82	0.014	2,600	690
Isopropylbenzene	MG/KG	2.3 CP-51	-			0.0052	25 J	
Methyl acetate	MG/KG	-	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500	0.0031 J		0.0029 J		
Styrene	MG/KG	300 CP-51	-		220	0.0012 J	1,300	1,000
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500		950		3,800	2,500
Xylene (total)	MG/KG	0.26	500		1,000	0.0063	4,700	2,000
Total BTEX	MG/KG	-	-	0.0014	3,632	0.0233	13,700	7,190
Total Volatile Organic Compounds	MG/KG	-	-	0.0045	3,852	0.0797	15,025	8,190

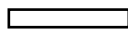
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

Blank cell or ND - Not detected. NA - Not analyzed.

J - The reported concentration is an estimated value. J+ - The reported concentration is an estimated value, with high bias.

D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

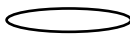
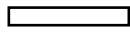
TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-43	SB-43	SB-44	SB-44	SB-44
Sample ID				SB-43 (1-2)	SB-43 (10-12)	SB-44 (1.5-2)	SB-44 (10-12)	SB-44 (15-20)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-2.0	10.0-12.0	1.5-2.0	10.0-12.0	15.0-20.0
Date Sampled				02/19/14	02/19/14	02/19/14	02/21/14	02/21/14
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	0.040 J	530 J	0.34 J	150 J	1,800
2,4-Dimethylphenol	MG/KG	-	-					
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.15 J	4,700 DJ		4,100 D	28,000 D
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500		1,100 DJ		0.65 J	
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	0.17 J	950 J	0.84	150 J	1,300
Acenaphthylene	MG/KG	100	500	1.5		2.8	700 J	9,900 DJ
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500	0.68	2,800 DJ	4.0 D	360 DJ	3,400
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	1.5	2,500 DJ	5.5 D	230 DJ	1,600
Benzo(a)pyrene	MG/KG	1	1	2.0		3.8 DJ	130 J	1,200
Benzo(b)fluoranthene	MG/KG	1	5.6	2.6	2,600 DJ	3.9 D	99 J	890
Benzo(g,h,i)perylene	MG/KG	100	500	1.9		2.0	35 J	490
Benzo(k)fluoranthene	MG/KG	0.8	56	0.96	830 DJ	2.8	48 J	450
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.097 J				
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	0.14 J	700 J		5.7	81 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

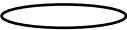
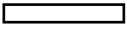
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-43	SB-43	SB-44	SB-44	SB-44
Sample ID				SB-43 (1-2)	SB-43 (10-12)	SB-44 (1.5-2)	SB-44 (10-12)	SB-44 (15-20)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-2.0	10.0-12.0	1.5-2.0	10.0-12.0	15.0-20.0
Date Sampled				02/19/14	02/19/14	02/19/14	02/21/14	02/21/14
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Chrysene	MG/KG	1	56	2.0	2,000 DJ	5.5 D	250 DJ	1,700
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.45		0.58	14	140 J
Dibenzofuran	MG/KG	7	350				59 J	700
Di-n-butylphthalate	MG/KG	0.014 CP-51	-	0.041 J				
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	2.0	7,800 D	7.4 D	340 DJ	2,700
Fluorene	MG/KG	30	500	0.36 J		3.9 D	710 DJ	4,000 DJ
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	1.9		2.0	42 J	510 J
Naphthalene	MG/KG	12	500	0.73	48,000 D	0.46	11,000 D	74,000 D
Phenanthrene	MG/KG	100	500	1.4	12,000 D	15 D	1,500 DJ	11,000 DJ
Phenol	MG/KG	0.33	500		350 J			
Pyrene	MG/KG	100	500	2.8	6,700 D	13 D	530 DJ	5,000 DJ
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	23.1	90,880	73.48	20,238	146,280
Total Semivolatile Organic Compounds	MG/KG	-	-	23.418	93,560	73.82	20,453.35	148,861
Metals								
Aluminum	MG/KG	10000 CP-51	-	3,440	NA	11,300	9,910 J	NA
Antimony	MG/KG	12 CP-51	-	0.44 J	NA		1.7 J	NA
Arsenic	MG/KG	13	16	6.8	NA	11.5	30.9	NA
Barium	MG/KG	350	400	99.5	NA	98.2	66.6	NA
Beryllium	MG/KG	7.2	590	0.32	NA	0.47	0.54	NA
Cadmium	MG/KG	2.5	9.3	0.15 J	NA		0.53	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

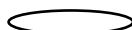
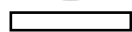
**TABLE 4-1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE**

Location ID				SB-43	SB-43	SB-44	SB-44	SB-44
Sample ID				SB-43 (1-2)	SB-43 (10-12)	SB-44 (1.5-2)	SB-44 (10-12)	SB-44 (15-20)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-2.0	10.0-12.0	1.5-2.0	10.0-12.0	15.0-20.0
Date Sampled				02/19/14	02/19/14	02/19/14	02/21/14	02/21/14
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Calcium	MG/KG	10000 CP-51	-	5,810	NA	3,940	7,710	NA
Chromium	MG/KG	30	1500	7.6	NA	25.6	14.5	NA
Cobalt	MG/KG	20 CP-51	-	9.1	NA	10.2	3.7	NA
Copper	MG/KG	50	270	59.8	NA	83.9	123 J	NA
Iron	MG/KG	2000 CP-51	-	10,100	NA	22,600	18,500	NA
Lead	MG/KG	63	1000	76.9	NA	224	306	NA
Magnesium	MG/KG	-	-	1,640	NA	3,960	2,650	NA
Manganese	MG/KG	1600	10000	68.9	NA	159	103	NA
Mercury	MG/KG	0.18	2.8	0.30	NA	0.83	3.7 J+	NA
Nickel	MG/KG	30	310	10.4	NA	26.5	24.7	NA
Potassium	MG/KG	-	-	798	NA	1,910	935 J	NA
Selenium	MG/KG	3.9	1500	1.3 J	NA	1.2 J	5.1	NA
Silver	MG/KG	2	1500		NA			NA
Sodium	MG/KG	-	-	376	NA	285	644 J	NA
Thallium	MG/KG	5 CP-51	-		NA		1.5	NA
Vanadium	MG/KG	39 CP-51	-	14.1	NA	33.0	29.3	NA
Zinc	MG/KG	109	10000	94.9	NA	147	165	NA

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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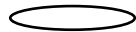
D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

TABLE 4-2A
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Volatile Organic Compounds										
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	134	1	0.002	0.002	0.002	0	SB-10	5-5.5
1,2-Dichlorobenzene	MG/KG	1.1	134	2	0.001	0.008	0.005	0	SB-37	8.2-9
1,2-Dichloroethene (cis)	MG/KG	0.25	134	3	0.009	1.30	0.447	1	MW-05	20.5-21
2-Butanone	MG/KG	0.12	134	6	0.003	0.007	0.006	0	SB-32	9-10
Acetone	MG/KG	0.05	134	86	0.004	0.240	0.030	10	SB-19	5-5.5
Benzene	MG/KG	0.06	134	42	0.001	2,600	148.6	17	SB-44	10-12
Carbon disulfide	MG/KG	2.7 CP-51	134	29	0.001	0.041	0.010	0	SB-38	15.5-16.5
Chloroform	MG/KG	0.37	134	3	0.020	0.110	0.053	0	SB-37	8.5-9
Cyclohexane	MG/KG	-	134	10	0.004	2.00	0.352	0	SB-37	8.5-9
Ethylbenzene	MG/KG	1	134	30	0.002	2,600	120.5	16	SB-44	10-12
Isopropylbenzene	MG/KG	2.3 CP-51	134	31	0.005	25.00	1.32	3	SB-44	10-12
Methyl acetate	MG/KG	-	134	2	0.006	0.006	0.006	0	SB-06	3-4
Methyl tert-butyl ether	MG/KG	0.93	134	1	0.002	0.002	0.002	0	SB-38	15.5-16.5
Methylcyclohexane	MG/KG	-	134	17	0.004	2.20	0.509	0	SB-39	6.7-7.7
Methylene chloride	MG/KG	0.05	134	12	0.0009	0.018	0.004	0	MW-07	9.8-10.5
Styrene	MG/KG	300 CP-51	134	14	0.001	1,300	186.1	2	SB-44	10-12
Tetrachloroethene	MG/KG	1.3	134	2	0.013	0.020	0.017	0	MW-03	6-7
Toluene	MG/KG	0.7	134	36	0.001	3,800	203.2	9	SB-44	10-12
Xylene (total)	MG/KG	0.26	134	37	0.002	4,700	219.7	20	SB-44	10-12

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.



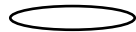
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-2A
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
1,1'-Biphenyl	MG/KG	60 CP-51	134	46	0.024	1,800	59.23	3	SB-44	15-20
2,4-Dimethylphenol	MG/KG	-	134	5	0.190	1.80	0.670	0	SB-05	6.5-7
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	134	1	1.20	1.20	1.20	1	MW-05	20.5-21
2-Chloronaphthalene	MG/KG	-	134	7	1.30	1.40	1.34	0	SB-21	21-22
2-Methylnaphthalene	MG/KG	0.41 CP-51	134	73	0.020	2.80E+04	537.5	40	SB-44	15-20
2-Methylphenol (o-cresol)	MG/KG	0.33	134	10	0.021	1.10	0.214	1	SB-05	6.5-7
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	134	19	0.025	1,100	58.25	6	SB-43	10-12
3,3'-Dichlorobenzidine	MG/KG	-	134	1	0.680	0.680	0.680	0	MW-05	20.5-21
Acenaphthene	MG/KG	20	134	79	0.020	1,300	39.97	10	SB-44	15-20
Acenaphthylene	MG/KG	100	134	83	0.021	9,900	136.1	3	SB-44	15-20
Acetophenone	MG/KG	-	134	23	0.023	24.00	1.21	0	SB-38	7.8-8.5
Anthracene	MG/KG	100	134	97	0.021	3,400	74.95	4	SB-44	15-20
Benzaldehyde	MG/KG	-	134	2	0.040	0.330	0.185	0	MW-05	4.5-5
Benzo(a)anthracene	MG/KG	1	134	114	0.021	2,500	48.72	58	SB-43	10-12
Benzo(a)pyrene	MG/KG	1	134	110	0.021	1,200	20.15	54	SB-44	15-20
Benzo(b)fluoranthene	MG/KG	1	134	106	0.032	2,600	43.84	54	SB-43	10-12
Benzo(g,h,i)perylene	MG/KG	100	134	98	0.023	490.0	10.95	2	SB-44	15-20
Benzo(k)fluoranthene	MG/KG	0.8	134	104	0.021	830.0	15.40	50	SB-43	10-12
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	134	81	0.020	2.70	0.192	0	SB-11	4.5-5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-2A
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
Butylbenzylphthalate	MG/KG	100 CP-51	134	7	0.019	0.160	0.062	0	SB-15	3-3.5
Carbazole	MG/KG	-	134	56	0.021	700.0	17.40	0	SB-43	10-12
Chrysene	MG/KG	1	134	112	0.022	2,000	45.81	60	SB-43	10-12
Dibenz(a,h)anthracene	MG/KG	0.33	134	86	0.019	140.0	3.32	40	SB-44	15-20
Dibenzofuran	MG/KG	7	134	62	0.023	700.0	18.91	9	SB-44	15-20
Di-n-butylphthalate	MG/KG	0.014 CP-51	134	28	0.021	1.60	0.138	28	MW-03	6-7
Di-n-octylphthalate	MG/KG	100 CP-51	134	2	0.032	0.042	0.037	0	SB-18	4-4.5
Fluoranthene	MG/KG	100	134	116	0.019	7,800	116.0	10	SB-43	10-12
Fluorene	MG/KG	30	134	79	0.020	4,000	70.57	10	SB-44	15-20
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	134	98	0.021	510.0	10.28	56	SB-44	15-20
Naphthalene	MG/KG	12	134	88	0.021	7.40E+04	1,585	21	SB-44	15-20
Phenanthrene	MG/KG	100	134	110	0.021	1.20E+04	256.4	11	SB-43	10-12
Phenol	MG/KG	0.33	134	13	0.020	350.0	27.16	5	SB-43	10-12
Pyrene	MG/KG	100	134	114	0.023	6,700	131.0	10	SB-43	10-12
Metals										
Aluminum	MG/KG	10000 CP-51	132	132	1,330	2.86E+04	1.01E+04	60	SB-18	8.5-9
Antimony	MG/KG	12 CP-51	132	38	0.370	4.00	1.14	0	SB-21	3.5-4
Arsenic	MG/KG	13	132	118	0.210	32.70	4.87	4	SB-38	7.8-8.5
Barium	MG/KG	350	132	132	21.80	720.0	90.01	3	SB-33	3.5-4

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.



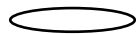
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-2A
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Metals										
Beryllium	MG/KG	7.2	132	108	0.039	2.00	0.583	0	SB-21	21-22
Cadmium	MG/KG	2.5	132	121	0.016	3.00	0.502	3	SB-07	3-4
Calcium	MG/KG	10000 CP-51	132	132	516.0	1.56E+05	9,666	31	MW-01	4.5-5
Chromium	MG/KG	30	132	132	6.20	177.0	26.58	31	SB-18	8.5-9
Cobalt	MG/KG	20 CP-51	132	132	1.50	22.20	8.63	3	SB-41	0.5-1
Copper	MG/KG	50	132	132	8.30	425.0	44.40	35	MW-05	4.5-5
Iron	MG/KG	2000 CP-51	132	132	6,550	1.13E+05	2.48E+04	132	SB-16	6-6.5
Lead	MG/KG	63	132	132	1.50	1,330	86.29	39	SB-33	3.5-4
Magnesium	MG/KG	-	132	132	412.0	2.99E+04	5,605	0	SB-35	9.5-10
Manganese	MG/KG	1600	132	132	22.60	1,230	277.9	0	SB-15	6-6.5
Mercury	MG/KG	0.18	132	95	0.007	4.20	0.391	37	SB-07	3-4
Nickel	MG/KG	30	132	132	6.00	71.80	20.50	11	SB-18	8.5-9
Potassium	MG/KG	-	132	132	412.0	1.65E+04	2,671	0	SB-18	8.5-9
Selenium	MG/KG	3.9	132	93	0.600	5.10	1.99	3	SB-44	10-12
Silver	MG/KG	2	132	22	0.070	0.400	0.154	0	SB-42	18.5-19.5
Sodium	MG/KG	-	132	132	53.00	5,450	679.0	0	SB-12	12-13
Thallium	MG/KG	5 CP-51	132	46	0.270	4.50	1.14	0	SB-05	6.5-7
Vanadium	MG/KG	39 CP-51	132	132	8.60	127.0	33.49	32	SB-18	8.5-9
Zinc	MG/KG	109	132	132	18.90	556.0	96.02	36	SB-37	3-4

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.



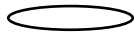
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-2B
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Volatile Organic Compounds										
1,2,4-Trichlorobenzene	MG/KG	-	134	1	0.002	0.002	0.002	0	SB-10	5-5.5
1,2-Dichlorobenzene	MG/KG	500	134	2	0.001	0.005	0.003	0	SB-37	8.2-9
1,2-Dichloroethene (cis)	MG/KG	500	134	3	0.009	1.30	0.447	0	MW-05	20.5-21
2-Butanone	MG/KG	500	134	6	0.003	0.007	0.006	0	SB-32	9-10
Acetone	MG/KG	500	134	86	0.003	0.240	0.029	0	SB-19	5-5.5
Benzene	MG/KG	44	134	42	0.001	2,600	148.6	3	SB-44	10-12
Carbon disulfide	MG/KG	-	134	29	0.001	0.041	0.010	0	SB-38	15.5-16.5
Chloroform	MG/KG	350	134	3	0.020	0.110	0.053	0	SB-37	8.5-9
Cyclohexane	MG/KG	-	134	10	0.004	2.00	0.328	0	SB-37	8.5-9
Ethylbenzene	MG/KG	390	134	30	0.002	2,600	120.4	2	SB-44	10-12
Isopropylbenzene	MG/KG	-	134	31	0.005	25.00	1.31	0	SB-44	10-12
Methyl acetate	MG/KG	-	134	2	0.006	0.006	0.006	0	SB-06	3-4
Methyl tert-butyl ether	MG/KG	500	134	1	0.002	0.002	0.002	0	SB-38	15.5-16.5
Methylcyclohexane	MG/KG	-	134	17	0.004	2.20	0.489	0	SB-39	6.7-7.7
Methylene chloride	MG/KG	500	134	12	0.0009	0.018	0.004	0	MW-07	9.8-10.5
Styrene	MG/KG	-	134	14	0.001	1,300	186.1	0	SB-44	10-12
Tetrachloroethene	MG/KG	150	134	2	0.013	0.020	0.017	0	MW-03	6-7
Toluene	MG/KG	500	134	36	0.001	3,800	203.2	3	SB-44	10-12
Xylene (total)	MG/KG	500	134	37	0.002	4,700	219.7	3	SB-44	10-12

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-2B
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
1,1'-Biphenyl	MG/KG	-	134	46	0.024	1,800	59.23	0	SB-44	15-20
2,4-Dimethylphenol	MG/KG	-	134	5	0.190	1.80	0.670	0	SB-05	6.5-7
2,6-Dinitrotoluene	MG/KG	-	134	1	1.20	1.20	1.20	0	MW-05	20.5-21
2-Chloronaphthalene	MG/KG	-	134	7	1.30	1.40	1.34	0	SB-21	21-22
2-Methylnaphthalene	MG/KG	-	134	73	0.020	2.80E+04	537.5	0	SB-44	15-20
2-Methylphenol (o-cresol)	MG/KG	500	134	10	0.021	1.10	0.214	0	SB-05	6.5-7
3&4-Methylphenol (m,p-cresol)	MG/KG	500	134	19	0.025	1,100	58.25	1	SB-43	10-12
3,3'-Dichlorobenzidine	MG/KG	-	134	1	0.680	0.680	0.680	0	MW-05	20.5-21
Acenaphthene	MG/KG	500	134	79	0.020	1,300	39.95	2	SB-44	15-20
Acenaphthylene	MG/KG	500	134	83	0.021	9,900	136.1	2	SB-44	15-20
Acetophenone	MG/KG	-	134	23	0.023	24.00	1.21	0	SB-38	7.8-8.5
Anthracene	MG/KG	500	134	97	0.021	3,400	74.95	2	SB-44	15-20
Benzaldehyde	MG/KG	-	134	2	0.040	0.330	0.185	0	MW-05	4.5-5
Benzo(a)anthracene	MG/KG	5.6	134	114	0.021	2,500	48.72	27	SB-43	10-12
Benzo(a)pyrene	MG/KG	1	134	110	0.021	1,200	20.14	54	SB-44	15-20
Benzo(b)fluoranthene	MG/KG	5.6	134	106	0.032	2,600	43.84	26	SB-43	10-12
Benzo(g,h,i)perylene	MG/KG	500	134	98	0.023	490.0	10.94	0	SB-44	15-20
Benzo(k)fluoranthene	MG/KG	56	134	104	0.021	830.0	15.40	2	SB-43	10-12
bis(2-Ethylhexyl)phthalate	MG/KG	-	134	81	0.020	2.70	0.192	0	SB-11	4.5-5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-2B
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
Butylbenzylphthalate	MG/KG	-	134	7	0.019	0.160	0.062	0	SB-15	3-3.5
Carbazole	MG/KG	-	134	56	0.021	700.0	17.40	0	SB-43	10-12
Chrysene	MG/KG	56	134	112	0.022	2,000	45.80	7	SB-43	10-12
Dibenz(a,h)anthracene	MG/KG	0.56	134	86	0.019	140.0	3.32	32	SB-44	15-20
Dibenzofuran	MG/KG	350	134	62	0.023	700.0	18.90	1	SB-44	15-20
Di-n-butylphthalate	MG/KG	-	134	28	0.021	1.60	0.138	0	MW-03	6-7
Di-n-octylphthalate	MG/KG	-	134	2	0.032	0.042	0.037	0	SB-18	4-4.5
Fluoranthene	MG/KG	500	134	116	0.019	7,800	116.0	3	SB-43	10-12
Fluorene	MG/KG	500	134	79	0.020	4,000	70.54	2	SB-44	15-20
Indeno(1,2,3-cd)pyrene	MG/KG	5.6	134	98	0.021	510.0	10.28	17	SB-44	15-20
Naphthalene	MG/KG	500	134	88	0.021	7.40E+04	1,585	8	SB-44	15-20
Phenanthrene	MG/KG	500	134	110	0.021	1.20E+04	256.4	4	SB-43	10-12
Phenol	MG/KG	500	134	13	0.020	350.0	27.16	0	SB-43	10-12
Pyrene	MG/KG	500	134	114	0.023	6,700	131.0	4	SB-43	10-12
Metals										
Aluminum	MG/KG	-	132	132	1,330	2.86E+04	1.01E+04	0	SB-18	8.5-9
Antimony	MG/KG	-	132	38	0.370	4.00	1.14	0	SB-21	3.5-4
Arsenic	MG/KG	16	132	118	0.210	32.70	4.85	3	SB-38	7.8-8.5
Barium	MG/KG	400	132	132	21.80	720.0	89.69	1	SB-33	3.5-4

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-2B
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Metals										
Beryllium	MG/KG	590	132	108	0.039	2.00	0.583	0	SB-21	21-22
Cadmium	MG/KG	9.3	132	121	0.016	3.00	0.501	0	SB-07	3-4
Calcium	MG/KG	-	132	132	516.0	1.56E+05	9,659	0	MW-01	4.5-5
Chromium	MG/KG	1500	132	132	3.40	177.0	26.55	0	SB-18	8.5-9
Cobalt	MG/KG	-	132	132	1.50	22.20	8.62	0	SB-41	0.5-1
Copper	MG/KG	270	132	132	8.30	425.0	44.18	2	MW-05	4.5-5
Iron	MG/KG	-	132	132	6,550	1.13E+05	2.47E+04	0	SB-16	6-6.5
Lead	MG/KG	1000	132	132	1.50	1,330	86.21	2	SB-33	3.5-4
Magnesium	MG/KG	-	132	132	257.6	2.99E+04	5,603	0	SB-35	9.5-10
Manganese	MG/KG	10000	132	132	22.60	1,230	277.7	0	SB-15	6-6.5
Mercury	MG/KG	2.8	132	95	0.007	4.20	0.390	3	SB-07	3-4
Nickel	MG/KG	310	132	132	3.41	71.80	20.48	0	SB-18	8.5-9
Potassium	MG/KG	-	132	132	412.0	1.65E+04	2,667	0	SB-18	8.5-9
Selenium	MG/KG	1500	132	93	0.600	5.10	1.98	0	SB-44	10-12
Silver	MG/KG	1500	132	22	0.070	0.400	0.154	0	SB-42	18.5-19.5
Sodium	MG/KG	-	132	132	38.00	5,450	678.7	0	SB-12	12-13
Thallium	MG/KG	-	132	46	0.270	4.50	1.14	0	SB-05	6.5-7
Vanadium	MG/KG	-	132	132	6.66	127.0	33.44	0	SB-18	8.5-9
Zinc	MG/KG	10000	132	132	13.28	556.0	95.92	0	SB-37	3-4

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



Concentration Exceeds Criteria

Only Detected Results Reported.



TABLE 4-3A
BLOCK 2592 LOT 35
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-03	MW-03	MW-03	SB-06	SB-06
Sample ID				MW-03-(3.5-4.5)	MW-03-(6-7)	MW-03-(14-15)	SB-06-(3-4)	20100414-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.5	6.0-7.0	14.0-15.0	3.0-4.0	4.5-5.5
Date Sampled				04/15/10	04/19/10	04/19/10	04/14/10	04/14/10
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Volatile Organic Compounds								
Acetone	MG/KG	0.05	500		0.061 J	0.0051 J	0.020 J	0.0040 J
Benzene	MG/KG	0.06	44		0.31			
Carbon disulfide	MG/KG	2.7 CP-51	-		0.015 J			
Ethylbenzene	MG/KG	1	390		0.036			
Isopropylbenzene	MG/KG	2.3 CP-51	-		2.4 J			
Methyl acetate	MG/KG	-	-				0.0064	0.0056
Methylcyclohexane	MG/KG	-	-		1.0 J			
Methylene chloride	MG/KG	0.05	500				0.0012 J	
Tetrachloroethene	MG/KG	1.3	150		0.020			
Toluene	MG/KG	0.7	500		0.024			
Xylene (total)	MG/KG	0.26	500		0.29 J			
Total BTEX	MG/KG	-	-	ND	0.66	ND	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	ND	4.156	0.0051	0.0276	0.0096
Semivolatile Organic Compounds								
2-Methylnaphthalene	MG/KG	0.41 CP-51	-		14 J			
Acenaphthene	MG/KG	20	500		1.0 J		0.027 J	
Acenaphthylene	MG/KG	100	500	0.12 J			0.048 J	
Anthracene	MG/KG	100	500	0.047 J	1.7 J		0.16 J	
Benzo(a)anthracene	MG/KG	1	5.6	0.20	1.9 J		0.44	0.077 J
Benzo(a)pyrene	MG/KG	1	1	0.21 J	1.5 J		0.29	0.046 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.


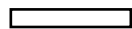
TABLE 4-3A
BLOCK 2592 LOT 35
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-03	MW-03	MW-03	SB-06	SB-06
Sample ID				MW-03-(3.5-4.5)	MW-03-(6-7)	MW-03-(14-15)	SB-06-(3-4)	20100414-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.5	6.0-7.0	14.0-15.0	3.0-4.0	4.5-5.5
Date Sampled				04/15/10	04/19/10	04/19/10	04/14/10	04/14/10
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Semivolatile Organic Compounds								
Benzo(b)fluoranthene	MG/KG	1	5.6	0.20 J	1.8 J		0.34	0.071 J
Benzo(g,h,i)perylene	MG/KG	100	500	0.24 J	0.88 J		0.23	0.057 J
Benzo(k)fluoranthene	MG/KG	0.8	56	0.15 J	0.90 J		0.11 J	0.040 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.12 J	1.1 J	0.084 J	0.15 J	0.033 J
Carbazole	MG/KG	-	-				0.042 J	
Chrysene	MG/KG	1	56	0.21	3.1 J		0.37	0.065 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.040 J			0.034 J	
Dibenzofuran	MG/KG	7	350				0.023 J	
Di-n-butylphthalate	MG/KG	0.014 CP-51	-	0.021 J	1.6 J			
Fluoranthene	MG/KG	100	500	0.29	4.0 J		1.1	0.14 J
Fluorene	MG/KG	30	500		4.0 J		0.042 J	
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.15 J	0.64 J		0.16 J	0.039 J
Naphthalene	MG/KG	12	500	0.021 J				
Phenanthrene	MG/KG	100	500	0.096 J	10 J		0.50	0.026 J
Pyrene	MG/KG	100	500	0.27	7.0 J		0.96	0.15 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	2.244	52.42	ND	4.811	0.711
Total Semivolatile Organic Compounds	MG/KG	-	-	2.385	55.12	0.084	5.026	0.744
Metals								
Aluminum	MG/KG	10000 CP-51	-	8,670 J	10,000	9,770	8,650 J	9,310 J
Arsenic	MG/KG	13	16	2.1	0.78 J		1.8	1.2

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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Only Detected Results Reported.


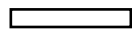
TABLE 4-3A
BLOCK 2592 LOT 35
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-03	MW-03	MW-03	SB-06	SB-06
Sample ID				MW-03-(3.5-4.5)	MW-03-(6-7)	MW-03-(14-15)	SB-06-(3-4)	20100414-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.5	6.0-7.0	14.0-15.0	3.0-4.0	4.5-5.5
Date Sampled				04/15/10	04/19/10	04/19/10	04/14/10	04/14/10
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Metals								
Barium	MG/KG	350	400	72.1 J	53.8 J	81.0 J	91.9 J	73.7 J
Beryllium	MG/KG	7.2	590	0.84 J	1.0 J	1.4 J	0.93 J	1.0 J
Cadmium	MG/KG	2.5	9.3	0.34	0.088 J	0.14 J	0.22 J	0.30
Calcium	MG/KG	10000 CP-51	-	4,400 J	2,430	2,750	3,720 J	4,580 J
Chromium	MG/KG	30	1500	22.3 J	34.4 J	27.3 J	22.8 J	28.5 J
Cobalt	MG/KG	20 CP-51	-	9.9 J	7.4 J	12.2 J	10.0 J	10.3 J
Copper	MG/KG	50	270	49.2 J	51.7	30.9	32.8 J	33.4 J
Iron	MG/KG	2000 CP-51	-	19,900	19,000	23,300	25,200	22,700
Lead	MG/KG	63	1000	41.3 J	8.5	5.0	33.0 J	7.0 J
Magnesium	MG/KG	-	-	5,400 J	4,270 J	6,450 J	4,100 J	6,220 J
Manganese	MG/KG	1600	10000	291 J	134 J	281 J	240 J	194 J
Mercury	MG/KG	0.18	2.8	0.16 J			0.19 J	0.024 J
Nickel	MG/KG	30	310	19.1 J	22.2 J	22.8 J	19.3 J	22.9 J
Potassium	MG/KG	-	-	3,010 J	2,000	3,630	3,660 J	2,840 J
Selenium	MG/KG	3.9	1500	1.9	2.5	3.2	3.4	2.5
Silver	MG/KG	2	1500	0.070 J	0.11 J		0.093 J	
Sodium	MG/KG	-	-	123 J	291 J	275 J	123 J	159 J
Thallium	MG/KG	5 CP-51	-	1.8			1.9	1.3 J
Vanadium	MG/KG	39 CP-51	-	28.2 J	29.2	34.3	27.7 J	30.9 J
Zinc	MG/KG	109	10000	115 J	213 J	50.3 J	53.4 J	102 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.

Advanced Selection: BLOCK 2592 LOT 35
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[SITEID] = '02' AND [MATRIX] = 'SO' AND ([LOCID] = 'MW-03' OR [LOCID] = 'SB-06') AND NOT ([UNITS] = 'PERCENT' OR [PRCCODE] = 'STD')

TABLE 4-3A
BLOCK 2592 LOT 35
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID		SB-06		
Sample ID		SB-06-(4.5-5.5)		
Matrix		Soil		
Depth Interval (ft)		4.5-5.5		
Date Sampled		04/14/10		
Parameter	Units	Criteria (1)	Criteria (2)	
Volatile Organic Compounds				
Acetone	MG/KG	0.05	500	
Benzene	MG/KG	0.06	44	
Carbon disulfide	MG/KG	2.7 CP-51	-	
Ethylbenzene	MG/KG	1	390	
Isopropylbenzene	MG/KG	2.3 CP-51	-	
Methyl acetate	MG/KG	-	-	
Methylcyclohexane	MG/KG	-	-	
Methylene chloride	MG/KG	0.05	500	
Tetrachloroethene	MG/KG	1.3	150	
Toluene	MG/KG	0.7	500	0.0013 J
Xylene (total)	MG/KG	0.26	500	
Total BTEX	MG/KG	-	-	0.0013
Total Volatile Organic Compounds	MG/KG	-	-	0.0013
Semivolatile Organic Compounds				
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	
Acenaphthene	MG/KG	20	500	
Acenaphthylene	MG/KG	100	500	
Anthracene	MG/KG	100	500	
Benzo(a)anthracene	MG/KG	1	5.6	0.071 J
Benzo(a)pyrene	MG/KG	1	1	0.047 J

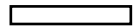
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-3A
BLOCK 2592 LOT 35
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-06
Sample ID				SB-06-(4.5-5.5)
Matrix				Soil
Depth Interval (ft)				4.5-5.5
Date Sampled				04/14/10
Parameter	Units	Criteria (1)	Criteria (2)	
Semivolatile Organic Compounds				
Benzo(b)fluoranthene	MG/KG	1	5.6	0.066 J
Benzo(g,h,i)perylene	MG/KG	100	500	0.050 J
Benzo(k)fluoranthene	MG/KG	0.8	56	0.030 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.044 J
Carbazole	MG/KG	-	-	
Chrysene	MG/KG	1	56	0.069 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	
Dibenzofuran	MG/KG	7	350	
Di-n-butylphthalate	MG/KG	0.014 CP-51	-	
Fluoranthene	MG/KG	100	500	0.15 J
Fluorene	MG/KG	30	500	
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.037 J
Naphthalene	MG/KG	12	500	
Phenanthrene	MG/KG	100	500	0.024 J
Pyrene	MG/KG	100	500	0.14 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	0.684
Total Semivolatile Organic Compounds	MG/KG	-	-	0.728
Metals				
Aluminum	MG/KG	10000 CP-51	-	11,900 J
Arsenic	MG/KG	13	16	1.6

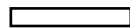
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.

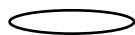
TABLE 4-3A
BLOCK 2592 LOT 35
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-06
Sample ID				SB-06-(4.5-5.5)
Matrix				Soil
Depth Interval (ft)				4.5-5.5
Date Sampled				04/14/10
Parameter	Units	Criteria (1)	Criteria (2)	
Metals				
Barium	MG/KG	350	400	80.7 J
Beryllium	MG/KG	7.2	590	1.1 J
Cadmium	MG/KG	2.5	9.3	0.31
Calcium	MG/KG	10000 CP-51	-	4,460 J
Chromium	MG/KG	30	1500	28.7 J
Cobalt	MG/KG	20 CP-51	-	11.9 J
Copper	MG/KG	50	270	32.5 J
Iron	MG/KG	2000 CP-51	-	26,400
Lead	MG/KG	63	1000	9.2 J
Magnesium	MG/KG	-	-	6,930 J
Manganese	MG/KG	1600	10000	311 J
Mercury	MG/KG	0.18	2.8	0.021 J
Nickel	MG/KG	30	310	23.6 J
Potassium	MG/KG	-	-	3,130 J
Selenium	MG/KG	3.9	1500	3.4
Silver	MG/KG	2	1500	
Sodium	MG/KG	-	-	142 J
Thallium	MG/KG	5 CP-51	-	2.3 J
Vanadium	MG/KG	39 CP-51	-	35.9 J
Zinc	MG/KG	109	10000	64.8 J

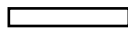
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-3B
BLOCK 2598 LOT 62
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-04	MW-04	MW-04
Sample ID				MW-04-(3.5-4.5)	MW-04-(3.5-4.5)	MW-04-(8.5-9.5)
Matrix				Soil	Soil	Soil
Depth Interval (ft)				3.5-4.5	3.5-4.5	8.5-9.5
Date Sampled				04/16/10	04/16/10	04/20/10
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)		
Volatile Organic Compounds						
Acetone	MG/KG	0.05	500	0.012 J	0.020 J	0.0067 J
Isopropylbenzene	MG/KG	2.3 CP-51	-	0.10 J	0.16 J	
Methylcyclohexane	MG/KG	-	-	0.17 J	0.28 J	
Styrene	MG/KG	300 CP-51	-		0.017 J	
Xylene (total)	MG/KG	0.26	500	0.0064 J		
Total BTEX	MG/KG	-	-	0.0064	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.2884	0.477	0.0067
Semivolatile Organic Compounds						
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	10 J	9.2 J	
Acenaphthene	MG/KG	20	500		0.43 J	
Acenaphthylene	MG/KG	100	500		0.31 J	
Anthracene	MG/KG	100	500	0.17 J	0.43	
Benzo(a)anthracene	MG/KG	1	5.6	0.22	0.14 J	
Benzo(a)pyrene	MG/KG	1	1	0.13 J	0.10 J	
Benzo(b)fluoranthene	MG/KG	1	5.6	0.16 J	0.14 J	
Benzo(g,h,i)perylene	MG/KG	100	500	0.099 J	0.22	
Benzo(k)fluoranthene	MG/KG	0.8	56	0.066 J	0.060 J	
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.052 J	0.044 J	
Chrysene	MG/KG	1	56	0.22 J	0.15 J	
Dibenz(a,h)anthracene	MG/KG	0.33	0.56		0.026 J	

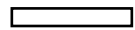
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.



TABLE 4-3B
BLOCK 2598 LOT 62
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-04	MW-04	MW-04
Sample ID				MW-04-(3.5-4.5)	MW-04-(3.5-4.5)	MW-04-(8.5-9.5)
Matrix				Soil	Soil	Soil
Depth Interval (ft)				3.5-4.5	3.5-4.5	8.5-9.5
Date Sampled				04/16/10	04/16/10	04/20/10
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)		
Semivolatile Organic Compounds						
Dibenzofuran	MG/KG	7	350		0.31 J	
Di-n-butylphthalate	MG/KG	0.014 CP-51	-		0.11 J	
Fluoranthene	MG/KG	100	500	0.46	0.30	
Fluorene	MG/KG	30	500		0.77 J	
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.073 J	0.13 J	
Naphthalene	MG/KG	12	500	0.56	0.54	
Phenanthrene	MG/KG	100	500	4.7	3.8	
Pyrene	MG/KG	100	500	1.3	1.0	
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	18.158	17.746	ND
Total Semivolatile Organic Compounds	MG/KG	-	-	18.21	18.21	ND
Metals						
Aluminum	MG/KG	10000 CP-51	-	8,910	11,500 J	8,120
Arsenic	MG/KG	13	16		2.2	1.4
Barium	MG/KG	350	400	83.6 J	71.4 J	46.0 J
Beryllium	MG/KG	7.2	590	1.2 J	0.90 J	0.65 J
Cadmium	MG/KG	2.5	9.3	0.087 J	0.33	0.045 J
Calcium	MG/KG	10000 CP-51	-	14,500	6,900 J	1,450
Chromium	MG/KG	30	1500	22.6 J	27.0 J	14.2 J
Cobalt	MG/KG	20 CP-51	-	9.6 J	12.3 J	6.3 J
Copper	MG/KG	50	270	35.6	27.2 J	9.2

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

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Only Detected Results Reported.

TABLE 4-3B
BLOCK 2598 LOT 62
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-04	MW-04	MW-04
Sample ID				MW-04-(3.5-4.5)	MW-04-(3.5-4.5)	MW-04-(8.5-9.5)
Matrix				Soil	Soil	Soil
Depth Interval (ft)				3.5-4.5	3.5-4.5	8.5-9.5
Date Sampled				04/16/10	04/16/10	04/20/10
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)		
Metals						
Iron	MG/KG	2000 CP-51	-	22,300	25,300	19,700
Lead	MG/KG	63	1000	11.6	7.8 J	4.9
Magnesium	MG/KG	-	-	11,200 J	6,680 J	2,800 J
Manganese	MG/KG	1600	10000	232 J	213 J	213 J
Mercury	MG/KG	0.18	2.8		0.013 J	
Nickel	MG/KG	30	310	17.3 J	21.2 J	11.5 J
Potassium	MG/KG	-	-	3,060	2,200 J	828
Selenium	MG/KG	3.9	1500	3.7	2.6	1.5
Silver	MG/KG	2	1500	0.12 J		0.087 J
Sodium	MG/KG	-	-	126 J	118 J	53.0 J
Thallium	MG/KG	5 CP-51	-		1.7	
Vanadium	MG/KG	39 CP-51	-	31.3	35.1 J	16.1
Zinc	MG/KG	109	10000	52.4 J	40.0 J	28.5 J

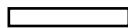
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.

Advanced Selection: BLOCK 2598 LOT 62
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 Printed: 12/28/2015 9:51:32 AM

[SITEID] = '02' AND [MATRIX] = 'SO' AND ([LOCID] = 'MW-04') AND NOT ([UNITS] = 'PERCENT' OR [PRCODE] = 'STD')

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-01	MW-01	MW-01	MW-01	MW-11
Sample ID				MW-01-(3.4-4)	MW-01-(4.5-5)	MW-01-(11-12)	MW-01-(16.5-18)	MW-11-(3.5-4.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.4-4.0	4.5-5.0	11.0-12.0	16.5-18.0	3.5-4.5
Date Sampled				03/24/10	03/24/10	03/26/10	03/26/10	01/07/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2-Dichlorobenzene	MG/KG	1.1	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500		0.0052 J	0.030 J	0.0088 J	0.021 J
Benzene	MG/KG	0.06	44			0.32		0.0018 J
Carbon disulfide	MG/KG	2.7 CP-51	-				0.0077	0.0014 J
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390			0.34		
Isopropylbenzene	MG/KG	2.3 CP-51	-			0.036 J		
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Toluene	MG/KG	0.7	500			0.39		0.0012 J
Xylene (total)	MG/KG	0.26	500	0.0028		1.4 J		
Total BTEX	MG/KG	-	-	0.0028	ND	2.45	ND	0.003
Total Volatile Organic Compounds	MG/KG	-	-	0.0028	0.0052	2.516	0.0165	0.0254
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-			14	0.039 J	0.045 J
2,4-Dimethylphenol	MG/KG	-	-			0.50 J		

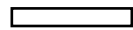
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]


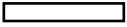
TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-01	MW-01	MW-01	MW-01	MW-11
Sample ID				MW-01-(3.4-4)	MW-01-(4.5-5)	MW-01-(11-12)	MW-01-(16.5-18)	MW-11-(3.5-4.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.4-4.0	4.5-5.0	11.0-12.0	16.5-18.0	3.5-4.5
Date Sampled				03/24/10	03/24/10	03/26/10	03/26/10	01/07/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
2-Methylnaphthalene	MG/KG	0.41 CP-51	-			34 J	0.073 J	0.20
2-Methylphenol (o-cresol)	MG/KG	0.33	500			0.29 J		
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500			0.73 J		0.039 J
Acenaphthene	MG/KG	20	500			52	0.18 J	0.082 J
Acenaphthylene	MG/KG	100	500		0.062 J	23	0.064 J	0.28
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500		0.030 J	59	0.21	0.43
Benzo(a)anthracene	MG/KG	1	5.6	0.091 J	0.16 J	62	0.23	0.77
Benzo(a)pyrene	MG/KG	1	1	0.067 J	0.14 J	49	0.18 J	0.70
Benzo(b)fluoranthene	MG/KG	1	5.6	0.077 J	0.19 J	59	0.21	0.84
Benzo(g,h,i)perylene	MG/KG	100	500			41		0.61
Benzo(k)fluoranthene	MG/KG	0.8	56	0.034 J	0.065 J	20	0.070 J	0.39
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.13 J	0.10 J		0.054 J	0.16 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-			26	0.066 J	0.19
Chrysene	MG/KG	1	56	0.087 J	0.18 J	50	0.17 J	0.69
Dibenz(a,h)anthracene	MG/KG	0.33	0.56		0.032 J	21 J	0.044 J	0.12 J
Dibenzofuran	MG/KG	7	350			45	0.16 J	0.18 J
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Fluoranthene	MG/KG	100	500	0.14 J	0.23	120	0.40	1.5

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-01	MW-01	MW-01	MW-01	MW-11
Sample ID				MW-01-(3.4-4)	MW-01-(4.5-5)	MW-01-(11-12)	MW-01-(16.5-18)	MW-11-(3.5-4.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.4-4.0	4.5-5.0	11.0-12.0	16.5-18.0	3.5-4.5
Date Sampled				03/24/10	03/24/10	03/26/10	03/26/10	01/07/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Fluorene	MG/KG	30	500			51	0.19 J	0.25
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6			33 J		0.44 J
Naphthalene	MG/KG	12	500			270	1.1	1.0
Phenanthrene	MG/KG	100	500	0.051 J	0.078 J	190	0.73	1.3
Phenol	MG/KG	0.33	500			0.59 J		0.020 J
Pyrene	MG/KG	100	500	0.16 J	0.31	120	0.42	1.6
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	0.707	1.477	1,254	4.271	11.202
Total Semivolatile Organic Compounds	MG/KG	-	-	0.837	1.577	1,341.11	4.59	11.836
Metals								
Aluminum	MG/KG	10000 CP-51	-	14,000	5,550	5,040	10,200	7,770
Antimony	MG/KG	12 CP-51	-					1.1 J
Arsenic	MG/KG	13	16	3.0	4.0	5.6	6.2	5.2
Barium	MG/KG	350	400	80.7 J	39.4 J	35.5 J	21.8 J	317
Beryllium	MG/KG	7.2	590	1.0 J	0.52 J	0.41 J	0.72 J	0.49
Cadmium	MG/KG	2.5	9.3	0.24 J	0.34	0.61	0.44	0.51 J
Calcium	MG/KG	10000 CP-51	-	2,010 J	156,000 J	2,200 J	2,170 J	23,700 J
Chromium	MG/KG	30	1500	25.0	13.0	10.8 J	20.9 J	22.1
Cobalt	MG/KG	20 CP-51	-	10.0 J	5.2 J	5.2 J	7.5 J	6.7 J
Copper	MG/KG	50	270	16.4 J	17.0 J	28.9	10.9	31.2
Iron	MG/KG	2000 CP-51	-	25,500	20,400	29,700	24,600	15,300 J

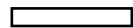
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-01	MW-01	MW-01	MW-01	MW-11
Sample ID				MW-01-(3.4-4)	MW-01-(4.5-5)	MW-01-(11-12)	MW-01-(16.5-18)	MW-11-(3.5-4.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.4-4.0	4.5-5.0	11.0-12.0	16.5-18.0	3.5-4.5
Date Sampled				03/24/10	03/24/10	03/26/10	03/26/10	01/07/11
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Lead	MG/KG	63	1000	51.3 J	29.5 J	20.6 J	10.1 J	680 J
Magnesium	MG/KG	-	-	4,170	7,920	2,450 J	4,930 J	3,360
Manganese	MG/KG	1600	10000	479 J	439 J	161 J	253 J	482
Mercury	MG/KG	0.18	2.8	0.045	0.10	0.053	0.019 J	0.38
Nickel	MG/KG	30	310	18.4 J	9.8 J	10.1 J	16.9 J	17.1
Potassium	MG/KG	-	-	1,120	841	694	2,190	3,030
Selenium	MG/KG	3.9	1500	2.4		1.4	1.0 J	
Silver	MG/KG	2	1500		0.073 J			
Sodium	MG/KG	-	-	144	135	1,090	2,800	199
Thallium	MG/KG	5 CP-51	-	2.2		0.30 J	0.86	
Vanadium	MG/KG	39 CP-51	-	32.2	15.5	11.7 J	25.5 J	22.0
Zinc	MG/KG	109	10000	52.3 J	48.3 J	39.9 J	48.3 J	109 J

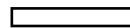
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-11	MW-11	SB-01	SB-01	SB-01
Sample ID				MW-11-(5-6)	MW-11-(20-21)	SB-01-(4.5-5)	SB-01-(5-5.5)	SB-01-(8.5-10)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.0-6.0	20.0-21.0	4.5-5.0	5.0-5.5	8.5-10.0
Date Sampled				01/17/11	01/17/11	03/24/10	03/25/10	03/29/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2-Dichlorobenzene	MG/KG	1.1	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.0074 J	0.014 J		0.0053 J	0.022 J
Benzene	MG/KG	0.06	44			0.0058		0.0047 J
Carbon disulfide	MG/KG	2.7 CP-51	-	0.0033	0.017			0.0047 J
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Toluene	MG/KG	0.7	500					
Xylene (total)	MG/KG	0.26	500					
Total BTEX	MG/KG	-	-	ND	ND	0.0058	ND	0.0047
Total Volatile Organic Compounds	MG/KG	-	-	0.0107	0.031	0.0058	0.0053	0.0314
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	0.050 J				
2,4-Dimethylphenol	MG/KG	-	-					

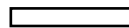
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TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-11	MW-11	SB-01	SB-01	SB-01
Sample ID				MW-11-(5-6)	MW-11-(20-21)	SB-01-(4.5-5)	SB-01-(5-5.5)	SB-01-(8.5-10)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.0-6.0	20.0-21.0	4.5-5.0	5.0-5.5	8.5-10.0
Date Sampled				01/17/11	01/17/11	03/24/10	03/25/10	03/29/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.17 J		0.046 J	0.037 J	
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500	0.035 J				
Acenaphthene	MG/KG	20	500	0.27		0.075 J	0.086 J	0.047 J
Acenaphthylene	MG/KG	100	500	0.38		0.34	0.45	
Acetophenone	MG/KG	-	-			0.031 J		
Anthracene	MG/KG	100	500	0.64		0.15 J	0.21	
Benzo(a)anthracene	MG/KG	1	5.6	1.2	0.031 J	0.63	0.85	0.049 J
Benzo(a)pyrene	MG/KG	1	1	1.1		0.47	0.69	0.042 J
Benzo(b)fluoranthene	MG/KG	1	5.6	1.4		0.67	1.0	
Benzo(g,h,i)perylene	MG/KG	100	500	1.2		0.46	0.75	
Benzo(k)fluoranthene	MG/KG	0.8	56	0.57		0.30	0.41	
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.11 J		0.075 J	0.067 J	0.097 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	0.28		0.031 J	0.034 J	
Chrysene	MG/KG	1	56	1.1		0.71	0.97	0.052 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.19 J		0.11 J	0.21	
Dibenzofuran	MG/KG	7	350	0.27		0.047 J	0.041 J	
Di-n-butylphthalate	MG/KG	0.014 CP-51	-	0.024 J				
Fluoranthene	MG/KG	100	500	2.3	0.048 J	1.2	1.7	

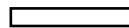
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Advanced Selection: BLOCK 2591 LOT 46
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TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-11	MW-11	SB-01	SB-01	SB-01
Sample ID				MW-11-(5-6)	MW-11-(20-21)	SB-01-(4.5-5)	SB-01-(5-5.5)	SB-01-(8.5-10)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.0-6.0	20.0-21.0	4.5-5.0	5.0-5.5	8.5-10.0
Date Sampled				01/17/11	01/17/11	03/24/10	03/25/10	03/29/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Fluorene	MG/KG	30	500	0.38		0.060 J	0.082 J	
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.79		0.31	0.53	
Naphthalene	MG/KG	12	500	0.45		0.067 J	0.051 J	
Phenanthrene	MG/KG	100	500	2.1	0.041 J	0.26	0.32	
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	2.2	0.049 J	1.4	1.6	
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	16.44	0.169	7.258	9.946	0.19
Total Semivolatile Organic Compounds	MG/KG	-	-	17.209	0.169	7.442	10.088	0.287
Metals								
Aluminum	MG/KG	10000 CP-51	-	4,640 J	12,600 J	7,260	8,320	13,600 J
Antimony	MG/KG	12 CP-51	-	0.64 J	0.88 J		0.72 J	
Arsenic	MG/KG	13	16	1.5	12.8	3.2	3.8	4.0 J
Barium	MG/KG	350	400	37.0 J	28.6 J	120 J	255 J	34.9 J
Beryllium	MG/KG	7.2	590	0.17 J	0.62 J	0.73 J	1.1 J	0.96 J
Cadmium	MG/KG	2.5	9.3	0.14 J	0.70	0.48	0.77	0.59 J
Calcium	MG/KG	10000 CP-51	-	46,100 J	1,800 J	17,400 J	6,930 J	2,920 J
Chromium	MG/KG	30	1500	12.4 J	26.6 J	24.7	25.2	27.0 J
Cobalt	MG/KG	20 CP-51	-	6.3 J	10.4 J	6.3 J	9.8 J	8.7 J
Copper	MG/KG	50	270	15.1	14.1	122 J	189 J	12.5 J
Iron	MG/KG	2000 CP-51	-	12,000 J	48,500 J	22,900	32,300	26,300 J

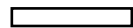
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-11	MW-11	SB-01	SB-01	SB-01
Sample ID				MW-11-(5-6)	MW-11-(20-21)	SB-01-(4.5-5)	SB-01-(5-5.5)	SB-01-(8.5-10)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.0-6.0	20.0-21.0	4.5-5.0	5.0-5.5	8.5-10.0
Date Sampled				01/17/11	01/17/11	03/24/10	03/25/10	03/29/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Lead	MG/KG	63	1000	37.9 J	12.3 J	186 J	1,190 J	12.7 J
Magnesium	MG/KG	-	-	4,380 J	6,370 J	3,610	4,290	6,780 J
Manganese	MG/KG	1600	10000	259 J	534 J	149 J	203 J	383 J
Mercury	MG/KG	0.18	2.8	0.096 J	0.97 J	0.67	2.6	
Nickel	MG/KG	30	310	12.5 J	23.7 J	13.8 J	18.7 J	23.3 J
Potassium	MG/KG	-	-	1,030	2,990	1,530	1,770	2,920 J
Selenium	MG/KG	3.9	1500			1.6	1.9	1.8 J
Silver	MG/KG	2	1500			0.11 J	0.28 J	
Sodium	MG/KG	-	-	209	2,620	107	116	3,470 J
Thallium	MG/KG	5 CP-51	-		0.54 J	0.41 J	0.83	1.0 J
Vanadium	MG/KG	39 CP-51	-	12.5 J	34.8 J	27.9	37.2	43.7 J
Zinc	MG/KG	109	10000	86.4 J	68.2 J	140 J	297 J	61.6 J

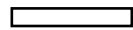
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Concentration Exceeds Criteria (2)

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Advanced Selection: BLOCK 2591 LOT 46
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-01	SB-02	SB-02	SB-02	SB-02
Sample ID				SB-01-(33-34)	20100 325-FD-1	SB-02-(4.7-5.3)	SB-02-(11.5-13)	SB-02-(27-28)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				33.0-34.0	4.7-5.3	4.7-5.3	11.5-13.0	27.0-28.0
Date Sampled				03/29/10	03/25/10	03/25/10	03/29/10	03/29/10
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Volatile Organic Compounds								
1,2-Dichlorobenzene	MG/KG	1.1	500			0.0014 J		
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.0055 J	0.012 J	0.014 J	0.023 J	
Benzene	MG/KG	0.06	44		0.0079	0.0079	0.0024 J	
Carbon disulfide	MG/KG	2.7 CP-51	-				0.024 J	
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-		0.0052 J	0.0037 J		
Ethylbenzene	MG/KG	1	390		0.0015 J	0.0016 J		
Isopropylbenzene	MG/KG	2.3 CP-51	-		0.029	0.019		
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-		0.022	0.015		
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Toluene	MG/KG	0.7	500					
Xylene (total)	MG/KG	0.26	500		0.0074	0.0057		
Total BTEX	MG/KG	-	-	ND	0.0168	0.0152	0.0024	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.0055	0.085	0.0683	0.0494	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-					
2,4-Dimethylphenol	MG/KG	-	-					

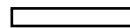
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TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-01	SB-02	SB-02	SB-02	SB-02
Sample ID				SB-01-(33-34)	20100 325-FD-1	SB-02-(4.7-5.3)	SB-02-(11.5-13)	SB-02-(27-28)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				33.0-34.0	4.7-5.3	4.7-5.3	11.5-13.0	27.0-28.0
Date Sampled				03/29/10	03/25/10	03/25/10	03/29/10	03/29/10
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
2-Methylnaphthalene	MG/KG	0.41 CP-51	-		9.6	10		
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
Acenaphthene	MG/KG	20	500		2.2 J	1.7 J		
Acenaphthylene	MG/KG	100	500		0.54 J	0.55 J		
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500		0.85 J	0.95 J		
Benzo(a)anthracene	MG/KG	1	5.6		1.4 J	1.4 J		
Benzo(a)pyrene	MG/KG	1	1		0.78 J	0.91 J		
Benzo(b)fluoranthene	MG/KG	1	5.6		0.59 J	0.54 J		
Benzo(g,h,i)perylene	MG/KG	100	500		0.79 J	0.99 J		
Benzo(k)fluoranthene	MG/KG	0.8	56		0.44 J	0.54 J		
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.037 J			0.10 J	0.041 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-					
Chrysene	MG/KG	1	56		1.1 J	1.2 J		
Dibenz(a,h)anthracene	MG/KG	0.33	0.56		0.26 J	0.29 J		
Dibenzofuran	MG/KG	7	350					
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Fluoranthene	MG/KG	100	500		1.1 J	1.1 J	0.035 J	

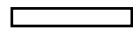
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

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Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-01	SB-02	SB-02	SB-02	SB-02
Sample ID				SB-01-(33-34)	20100 325-FD-1	SB-02-(4.7-5.3)	SB-02-(11.5-13)	SB-02-(27-28)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				33.0-34.0	4.7-5.3	4.7-5.3	11.5-13.0	27.0-28.0
Date Sampled				03/29/10	03/25/10	03/25/10	03/29/10	03/29/10
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Semivolatile Organic Compounds								
Fluorene	MG/KG	30	500		2.7 J	2.7 J		
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6		0.64 J	0.64 J		
Naphthalene	MG/KG	12	500		0.63 J	0.63 J	0.10 J	
Phenanthrene	MG/KG	100	500		3.2 J	4.4 J		
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500		2.6 J	2.6 J		
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	ND	29.42	31.14	0.135	ND
Total Semivolatile Organic Compounds	MG/KG	-	-	0.037	29.42	31.14	0.235	0.041
Metals								
Aluminum	MG/KG	10000 CP-51	-	5,130	14,500	15,200	16,400 J	6,920
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	3.5	2.1	2.0	8.2 J	2.5
Barium	MG/KG	350	400	35.0 J	71.2 J	79.2 J	32.8 J	58.1 J
Beryllium	MG/KG	7.2	590	0.57 J	1.5 J	1.1 J	1.1 J	0.52 J
Cadmium	MG/KG	2.5	9.3	0.24	0.86 J	1.3 J	0.81 J	0.23
Calcium	MG/KG	10000 CP-51	-	1,440 J	1,270 J	1,610 J	2,490 J	1,010 J
Chromium	MG/KG	30	1500	20.3 J	31.3	34.2	32.5 J	16.8 J
Cobalt	MG/KG	20 CP-51	-	7.9 J	11.8 J	9.6 J	11.5 J	6.5 J
Copper	MG/KG	50	270	19.8	38.4 J	59.9 J	14.1 J	11.9
Iron	MG/KG	2000 CP-51	-	17,100	25,000	24,800	42,200 J	15,700

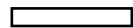
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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-01	SB-02	SB-02	SB-02	SB-02
Sample ID				SB-01-(33-34)	20100 325-FD-1	SB-02-(4.7-5.3)	SB-02-(11.5-13)	SB-02-(27-28)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				33.0-34.0	4.7-5.3	4.7-5.3	11.5-13.0	27.0-28.0
Date Sampled				03/29/10	03/25/10	03/25/10	03/29/10	03/29/10
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Metals								
Lead	MG/KG	63	1000	3.7 J	10.4 J	20.1 J	13.6 J	5.2 J
Magnesium	MG/KG	-	-	2,990 J	4,370	4,970	7,860 J	2,930 J
Manganese	MG/KG	1600	10000	87.1 J	125 J	117 J	443 J	107 J
Mercury	MG/KG	0.18	2.8		0.022 J	0.085	0.026 J	
Nickel	MG/KG	30	310	20.3 J	26.1 J	24.3 J	28.0 J	11.7 J
Potassium	MG/KG	-	-	1,820	2,070	2,550	3,460 J	702
Selenium	MG/KG	3.9	1500	0.71 J	1.5 J	1.3		0.83 J
Silver	MG/KG	2	1500			0.13 J		
Sodium	MG/KG	-	-	430	126	154	3,400 J	572
Thallium	MG/KG	5 CP-51	-	0.37 J	0.96 J	1.0	1.4 J	0.39 J
Vanadium	MG/KG	39 CP-51	-	18.9 J	38.4	39.6	40.6 J	18.1 J
Zinc	MG/KG	109	10000	31.2 J	267 J	154 J	76.2 J	26.3 J

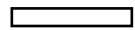
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Concentration Exceeds Criteria (2)

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TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-03	SB-03	SB-04	SB-04	SB-04
Sample ID				SB-03-(4.5-5.5)	SB-03-(28-29)	SB-04-(2.5-3.5)	SB-04-(4.2-5)	SB-04-(11-12)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.5	28.0-29.0	2.5-3.5	4.2-5.0	11.0-12.0
Date Sampled				03/26/10	03/29/10	04/13/10	04/13/10	04/16/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2-Dichlorobenzene	MG/KG	1.1	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.020 J	0.0081 J			
Benzene	MG/KG	0.06	44	0.012				
Carbon disulfide	MG/KG	2.7 CP-51	-					
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-	0.017				
Ethylbenzene	MG/KG	1	390	0.0060				
Isopropylbenzene	MG/KG	2.3 CP-51	-	0.082 J				
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-	0.080 J				
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Toluene	MG/KG	0.7	500					
Xylene (total)	MG/KG	0.26	500	0.012 J				
Total BTEX	MG/KG	-	-	0.03	ND	ND	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.229	0.0081	ND	ND	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-					
2,4-Dimethylphenol	MG/KG	-	-					

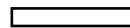
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Concentration Exceeds Criteria (1)



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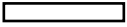
TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-03	SB-03	SB-04	SB-04	SB-04
Sample ID				SB-03-(4.5-5.5)	SB-03-(28-29)	SB-04-(2.5-3.5)	SB-04-(4.2-5)	SB-04-(11-12)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.5	28.0-29.0	2.5-3.5	4.2-5.0	11.0-12.0
Date Sampled				03/26/10	03/29/10	04/13/10	04/13/10	04/16/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	35				
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
Acenaphthene	MG/KG	20	500	2.7				
Acenaphthylene	MG/KG	100	500			0.062 J	0.064 J	
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500	1.5 J	0.021 J	0.059 J	0.083 J	
Benzo(a)anthracene	MG/KG	1	5.6	1.7 J	0.036 J	0.25	0.29	
Benzo(a)pyrene	MG/KG	1	1	0.98 J		0.22	0.22	
Benzo(b)fluoranthene	MG/KG	1	5.6	0.83 J		0.30	0.32	
Benzo(g,h,i)perylene	MG/KG	100	500	0.86 J		0.21	0.20 J	
Benzo(k)fluoranthene	MG/KG	0.8	56	0.76 J		0.091 J	0.091 J	
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-		0.095 J		0.054 J	0.034 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-					
Chrysene	MG/KG	1	56	2.6	0.026 J	0.26	0.29	
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.22 J		0.041 J	0.045 J	
Dibenzofuran	MG/KG	7	350					
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Fluoranthene	MG/KG	100	500	1.8 J	0.045 J	0.35	0.50	0.043 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-03	SB-03	SB-04	SB-04	SB-04
Sample ID				SB-03-(4.5-5.5)	SB-03-(28-29)	SB-04-(2.5-3.5)	SB-04-(4.2-5)	SB-04-(11-12)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.5	28.0-29.0	2.5-3.5	4.2-5.0	11.0-12.0
Date Sampled				03/26/10	03/29/10	04/13/10	04/13/10	04/16/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Fluorene	MG/KG	30	500	3.8			0.039 J	
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.57 J		0.17 J	0.17 J	
Naphthalene	MG/KG	12	500	1.1 J		0.022 J	0.022 J	
Phenanthrene	MG/KG	100	500	9.7	0.067 J	0.20 J	0.34	
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	4.6	0.073 J	0.38	0.52	
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	68.72	0.268	2.615	3.194	0.043
Total Semivolatile Organic Compounds	MG/KG	-	-	68.72	0.363	2.615	3.248	0.077
Metals								
Aluminum	MG/KG	10000 CP-51	-	9,010	5,720	10,700 J	9,650 J	10,100 J
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	3.2	1.6	4.3	8.1	8.3
Barium	MG/KG	350	400	68.3 J	29.3 J	79.2 J	53.1 J	22.5 J
Beryllium	MG/KG	7.2	590	0.92 J	0.58 J	1.1 J	0.91 J	0.73 J
Cadmium	MG/KG	2.5	9.3	1.5	0.19 J	0.51	0.41	0.29 J
Calcium	MG/KG	10000 CP-51	-	2,910 J	1,040 J	4,100 J	3,570 J	1,300 J
Chromium	MG/KG	30	1500	24.5 J	16.0 J	27.3 J	27.0 J	21.5 J
Cobalt	MG/KG	20 CP-51	-	9.0 J	4.3 J	11.1 J	18.2 J	7.5 J
Copper	MG/KG	50	270	90.3	18.0	38.6 J	19.0 J	8.3 J
Iron	MG/KG	2000 CP-51	-	22,600	10,000	33,000	29,000	26,900

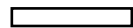
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-03	SB-03	SB-04	SB-04	SB-04
Sample ID				SB-03-(4.5-5.5)	SB-03-(28-29)	SB-04-(2.5-3.5)	SB-04-(4.2-5)	SB-04-(11-12)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.5	28.0-29.0	2.5-3.5	4.2-5.0	11.0-12.0
Date Sampled				03/26/10	03/29/10	04/13/10	04/13/10	04/16/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Lead	MG/KG	63	1000	94.4 J	3.3 J	59.6 J	26.9 J	9.0 J
Magnesium	MG/KG	-	-	3,350 J	2,520 J	5,850 J	5,370 J	5,210 J
Manganese	MG/KG	1600	10000	114 J	70.6 J	250 J	206 J	317 J
Mercury	MG/KG	0.18	2.8	0.17		4.1 J	0.97 J	0.018 J
Nickel	MG/KG	30	310	21.2 J	10.2 J	24.4 J	24.4 J	16.9 J
Potassium	MG/KG	-	-	1,770	1,500	3,570 J	3,210 J	2,470 J
Selenium	MG/KG	3.9	1500	0.68 J	0.83 J	3.5	3.6	3.2
Silver	MG/KG	2	1500			0.15 J	0.12 J	0.16 J
Sodium	MG/KG	-	-	122	279	287 J	325 J	3,620 J
Thallium	MG/KG	5 CP-51	-	0.50 J	0.27 J	1.7	1.7	2.5
Vanadium	MG/KG	39 CP-51	-	31.0 J	23.5 J	33.7 J	31.7 J	26.0 J
Zinc	MG/KG	109	10000	488 J	25.5 J	127 J	66.3 J	50.1 J

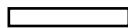
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-05	SB-05	SB-05	SB-32	SB-32
Sample ID				SB-05-(4-5)	SB-05-(6.5-7.0)	SB-05-(11.5-12)	SB-32-(3-4)	SB-32-(5-6)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-5.0	6.5-7.0	11.5-12.0	3.0-4.0	5.0-6.0
Date Sampled				04/13/10	04/16/10	04/16/10	01/13/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2-Dichlorobenzene	MG/KG	1.1	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500		0.047 J	0.015 J		0.030 J
Benzene	MG/KG	0.06	44					
Carbon disulfide	MG/KG	2.7 CP-51	-		0.024 J	0.0050 J		
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390		0.040			
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Toluene	MG/KG	0.7	500		0.019			
Xylene (total)	MG/KG	0.26	500		0.034			
Total BTEX	MG/KG	-	-	ND	0.093	ND	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	ND	0.164	0.02	ND	0.03
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	0.027 J	25 J		0.14 J	0.027 J
2,4-Dimethylphenol	MG/KG	-	-		1.8 J			

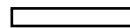
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Advanced Selection: BLOCK 2591 LOT 46
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]


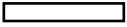
TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-05	SB-05	SB-05	SB-32	SB-32
Sample ID				SB-05-(4-5)	SB-05-(6.5-7.0)	SB-05-(11.5-12)	SB-32-(3-4)	SB-32-(5-6)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-5.0	6.5-7.0	11.5-12.0	3.0-4.0	5.0-6.0
Date Sampled				04/13/10	04/16/10	04/16/10	01/13/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.12 J	84 J		0.42	0.048 J
2-Methylphenol (o-cresol)	MG/KG	0.33	500		1.1 J			
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500		3.2 J		0.050 J	
Acenaphthene	MG/KG	20	500	0.035 J	250	0.21 J	0.32	0.024 J
Acenaphthylene	MG/KG	100	500	0.90			2.5	0.50
Acetophenone	MG/KG	-	-	0.026 J				
Anthracene	MG/KG	100	500	0.29	140 J	0.43 J	2.4	0.15 J
Benzo(a)anthracene	MG/KG	1	5.6	2.1	390	0.27 J	7.6	0.56
Benzo(a)pyrene	MG/KG	1	1	2.8	290	0.12 J	9.2	1.8
Benzo(b)fluoranthene	MG/KG	1	5.6	2.6	370	0.16 J	11	1.3
Benzo(g,h,i)perylene	MG/KG	100	500	3.1	160	0.16 J	6.4	2.8
Benzo(k)fluoranthene	MG/KG	0.8	56	1.7	27 J	0.072 J	2.5	0.41
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.069 J				0.026 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	0.039 J	96 J	0.11 J	0.37	
Chrysene	MG/KG	1	56	1.9	390	0.28 J	7.3	0.64
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.64	27 J	0.046 J	1.7	0.33
Dibenzofuran	MG/KG	7	350	0.036 J	170	0.35 J	0.64	0.023 J
Di-n-butylphthalate	MG/KG	0.014 CP-51	-				0.23	
Fluoranthene	MG/KG	100	500	2.8	1,100	0.56 J	13	0.53

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-05	SB-05	SB-05	SB-32	SB-32
Sample ID				SB-05-(4-5)	SB-05-(6.5-7.0)	SB-05-(11.5-12)	SB-32-(3-4)	SB-32-(5-6)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-5.0	6.5-7.0	11.5-12.0	3.0-4.0	5.0-6.0
Date Sampled				04/13/10	04/16/10	04/16/10	01/13/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Fluorene	MG/KG	30	500	0.089 J	170	0.78 J	0.96	0.062 J
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	2.1 J	140 J	0.078 J	5.4	1.7
Naphthalene	MG/KG	12	500	0.11 J	410	0.13 J	0.58	0.15 J
Phenanthrene	MG/KG	100	500	0.90	1,200	2.1 J	7.7	0.25
Phenol	MG/KG	0.33	500		1.1 J			
Pyrene	MG/KG	100	500	2.5	830	0.41 J	14	1.2
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	24.684	5,978	5.806	92.98	12.454
Total Semivolatile Organic Compounds	MG/KG	-	-	24.881	6,276.2	6.266	94.41	12.53
Metals								
Aluminum	MG/KG	10000 CP-51	-	9,250 J	5,720 J	16,400 J	6,550	3,690 J
Antimony	MG/KG	12 CP-51	-				0.71 J	0.52 J
Arsenic	MG/KG	13	16	2.3	4.8	5.0 J	8.2	2.0
Barium	MG/KG	350	400	113 J	94.7 J	54.5 J	144	42.3 J
Beryllium	MG/KG	7.2	590	0.95 J	0.55 J	1.1 J	0.30	0.20 J
Cadmium	MG/KG	2.5	9.3	0.35	0.22 J	0.38 J	1.5	0.096 J
Calcium	MG/KG	10000 CP-51	-	12,000 J	102,000 J	1,620 J	22,300 J	7,270 J
Chromium	MG/KG	30	1500	21.4 J	12.7 J	35.0 J	23.4	7.9 J
Cobalt	MG/KG	20 CP-51	-	9.0 J	4.6 J	18.2 J	7.5	3.8 J
Copper	MG/KG	50	270	33.5 J	50.3 J	62.4 J	58.6 J	21.9
Iron	MG/KG	2000 CP-51	-	22,700	10,900	20,200 J	21,200	12,900 J

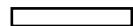
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
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[SITEID] = '02' AND [MATRIX] = 'SO' AND ([LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-05	SB-05	SB-05	SB-32	SB-32
Sample ID				SB-05-(4-5)	SB-05-(6.5-7.0)	SB-05-(11.5-12)	SB-32-(3-4)	SB-32-(5-6)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-5.0	6.5-7.0	11.5-12.0	3.0-4.0	5.0-6.0
Date Sampled				04/13/10	04/16/10	04/16/10	01/13/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Lead	MG/KG	63	1000	52.9 J	175 J	20.2 J	266	99.9 J
Magnesium	MG/KG	-	-	8,120 J	2,820 J	6,310 J	3,830 J	1,350 J
Manganese	MG/KG	1600	10000	246 J	1,150 J	222 J	248	125 J
Mercury	MG/KG	0.18	2.8	0.36 J	1.5 J	0.13 J	0.32 J	0.0070 J
Nickel	MG/KG	30	310	20.9 J	14.1 J	29.3 J	21.9	11.7 J
Potassium	MG/KG	-	-	2,790 J	891 J	3,610 J	1,400	494
Selenium	MG/KG	3.9	1500	3.0	1.1 J	3.8 J	1.7	0.65 J
Silver	MG/KG	2	1500	0.10 J	0.20 J	0.20 J		
Sodium	MG/KG	-	-	295 J	730 J	3,400 J	254	275
Thallium	MG/KG	5 CP-51	-	1.7	4.5	1.7 J		
Vanadium	MG/KG	39 CP-51	-	26.4 J	14.4 J	42.0 J	23.4	10.4 J
Zinc	MG/KG	109	10000	95.8 J	144 J	72.8 J	215 J	41.0 J

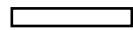
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-32	SB-32	SB-33	SB-33	SB-33
Sample ID				SB-32-(9-10)	SB-32-(13-14)	SB-33-(3.5-4)	SB-33-(10.5-11)	SB-33-(13.5-14)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				9.0-10.0	13.0-14.0	3.5-4.0	10.5-11.0	13.5-14.0
Date Sampled				01/17/11	01/17/11	01/11/11	01/14/11	01/14/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2-Dichlorobenzene	MG/KG	1.1	500					
2-Butanone	MG/KG	0.12	500	0.0072 J				
Acetone	MG/KG	0.05	500	0.036 J	0.017 J	0.0042 J	0.019 J	0.014 J
Benzene	MG/KG	0.06	44				0.015	
Carbon disulfide	MG/KG	2.7 CP-51	-	0.0023	0.012		0.0088	
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500			0.0016 J		
Styrene	MG/KG	300 CP-51	-					
Toluene	MG/KG	0.7	500	0.0020 J			0.0027 J	
Xylene (total)	MG/KG	0.26	500	0.0053			0.013	
Total BTEX	MG/KG	-	-	0.0073	ND	ND	0.0307	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.0528	0.029	0.0058	0.0585	0.014
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	0.025 J			2.2	
2,4-Dimethylphenol	MG/KG	-	-				0.46	

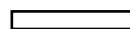
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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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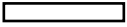
TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-32	SB-32	SB-33	SB-33	SB-33
Sample ID				SB-32-(9-10)	SB-32-(13-14)	SB-33-(3.5-4)	SB-33-(10.5-11)	SB-33-(13.5-14)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				9.0-10.0	13.0-14.0	3.5-4.0	10.5-11.0	13.5-14.0
Date Sampled				01/17/11	01/17/11	01/11/11	01/14/11	01/14/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.056 J		0.027 J	5.5	
2-Methylphenol (o-cresol)	MG/KG	0.33	500				0.21 J	
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500				0.57	
Acenaphthene	MG/KG	20	500	0.075 J		0.14 J	3.4	
Acenaphthylene	MG/KG	100	500	0.12 J		0.28	8.0	0.034 J
Acetophenone	MG/KG	-	-				0.044 J	
Anthracene	MG/KG	100	500	0.24		0.42	14	0.052 J
Benzo(a)anthracene	MG/KG	1	5.6	0.41		1.6	16	0.11 J
Benzo(a)pyrene	MG/KG	1	1	0.48		1.6	17	0.10 J
Benzo(b)fluoranthene	MG/KG	1	5.6	0.56		2.0	21	0.13 J
Benzo(g,h,i)perylene	MG/KG	100	500	0.33		1.0	11	0.066 J
Benzo(k)fluoranthene	MG/KG	0.8	56	0.24		0.89	4.4	0.053 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.081 J		0.27	0.55	
Butylbenzylphthalate	MG/KG	100 CP-51	-				0.076 J	
Carbazole	MG/KG	-	-	0.21		0.15 J	4.8	
Chrysene	MG/KG	1	56	0.38		1.6	15	0.094 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.11 J		0.29	2.9	0.019 J
Dibenzofuran	MG/KG	7	350	0.22		0.050 J	8.9	0.023 J
Di-n-butylphthalate	MG/KG	0.014 CP-51	-				0.040 J	
Fluoranthene	MG/KG	100	500	0.66		2.7	39	0.20

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-32	SB-32	SB-33	SB-33	SB-33
Sample ID				SB-32-(9-10)	SB-32-(13-14)	SB-33-(3.5-4)	SB-33-(10.5-11)	SB-33-(13.5-14)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				9.0-10.0	13.0-14.0	3.5-4.0	10.5-11.0	13.5-14.0
Date Sampled				01/17/11	01/17/11	01/11/11	01/14/11	01/14/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Fluorene	MG/KG	30	500	0.18 J		0.12 J	11	0.034 J
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.30		0.94	9.4	0.060 J
Naphthalene	MG/KG	12	500	0.32		0.047 J	25	0.021 J
Phenanthrene	MG/KG	100	500	0.38		1.2	46	0.13 J
Phenol	MG/KG	0.33	500				0.40	
Pyrene	MG/KG	100	500	0.62		2.6	37	0.19
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	5.461	ND	17.454	285.6	1.293
Total Semivolatile Organic Compounds	MG/KG	-	-	5.997	ND	17.924	303.85	1.316
Metals								
Aluminum	MG/KG	10000 CP-51	-	10,100 J	16,700 J	6,300	5,740	8,430
Antimony	MG/KG	12 CP-51	-	1.5 J	1.2 J	0.40 J	2.4 J	
Arsenic	MG/KG	13	16	1.8	8.0	6.1	7.3	1.7
Barium	MG/KG	350	400	72.3 J	34.5 J	720	118	42.8
Beryllium	MG/KG	7.2	590	0.21 J	0.81 J	0.29	0.23	0.55
Cadmium	MG/KG	2.5	9.3	0.34	0.64	0.87	2.4	0.49
Calcium	MG/KG	10000 CP-51	-	1,760 J	2,000 J	61,600 J	23,400 J	20,600 J
Chromium	MG/KG	30	1500	63.2 J	34.7 J	14.3	37.1	15.9
Cobalt	MG/KG	20 CP-51	-	9.0 J	11.4 J	4.5	7.5	9.3
Copper	MG/KG	50	270	25.1	15.1	27.5 J	141 J	15.8 J
Iron	MG/KG	2000 CP-51	-	20,600 J	26,900 J	11,200	41,000	14,400

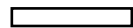
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
 J:\Projects\11175538.00000\DB\Program\EDMS.mde
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-32	SB-32	SB-33	SB-33	SB-33
Sample ID				SB-32-(9-10)	SB-32-(13-14)	SB-33-(3.5-4)	SB-33-(10.5-11)	SB-33-(13.5-14)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				9.0-10.0	13.0-14.0	3.5-4.0	10.5-11.0	13.5-14.0
Date Sampled				01/17/11	01/17/11	01/11/11	01/14/11	01/14/11
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Lead	MG/KG	63	1000	7.5 J	19.6 J	1,330	232	9.0
Magnesium	MG/KG	-	-	6,210 J	8,020 J	3,680 J	3,110 J	14,700 J
Manganese	MG/KG	1600	10000	172 J	447 J	182	263	317
Mercury	MG/KG	0.18	2.8		0.028 J	0.20 J	0.47 J	0.13 J
Nickel	MG/KG	30	310	35.0 J	29.0 J	13.6	17.6	13.6
Potassium	MG/KG	-	-	3,100	3,890	1,480	927	1,050
Selenium	MG/KG	3.9	1500			0.60 J	0.64 J	0.92 J
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	911	4,570	393	472	468
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	31.4 J	42.2 J	19.8	32.7	23.8
Zinc	MG/KG	109	10000	42.5 J	76.7 J	486 J	246 J	41.3 J

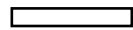
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
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 Printed: 12/28/2015 10:33:07 AM

[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-34	SB-34	SB-35	SB-35	SB-35
Sample ID				SB-34-(10-11)	SB-34-(20-20.9)	01182011-FD-1	SB-35-(9.5-10.0)	SB-35-(17.2-17.8)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-11.0	20.0-20.9	9.5-10.0	9.5-10.0	17.2-17.8
Date Sampled				01/14/11	01/14/11	01/18/11	01/18/11	01/18/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Volatile Organic Compounds								
1,2-Dichlorobenzene	MG/KG	1.1	500					
2-Butanone	MG/KG	0.12	500					0.0033 J
Acetone	MG/KG	0.05	500	0.015 J	0.012 J	0.012 J	0.018 J	0.028 J
Benzene	MG/KG	0.06	44					
Carbon disulfide	MG/KG	2.7 CP-51	-		0.0050			0.0022 J
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500			0.0017 J		
Styrene	MG/KG	300 CP-51	-					
Toluene	MG/KG	0.7	500				0.0022	
Xylene (total)	MG/KG	0.26	500					
Total BTEX	MG/KG	-	-	ND	ND	ND	0.0022	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.015	0.017	0.0137	0.0202	0.0335
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-					
2,4-Dimethylphenol	MG/KG	-	-					

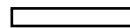
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Advanced Selection: BLOCK 2591 LOT 46
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-34	SB-34	SB-35	SB-35	SB-35
Sample ID				SB-34-(10-11)	SB-34-(20-20.9)	01182011-FD-1	SB-35-(9.5-10.0)	SB-35-(17.2-17.8)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-11.0	20.0-20.9	9.5-10.0	9.5-10.0	17.2-17.8
Date Sampled				01/14/11	01/14/11	01/18/11	01/18/11	01/18/11
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
		Semivolatile Organic Compounds						
2-Methylnaphthalene	MG/KG	0.41 CP-51	-					
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
Acenaphthene	MG/KG	20	500	0.020 J				
Acenaphthylene	MG/KG	100	500	0.036 J	0.036 J			
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500	0.036 J	0.053 J			0.068 J
Benzo(a)anthracene	MG/KG	1	5.6	0.11 J	0.11 J	0.060 J	0.052 J	0.14 J
Benzo(a)pyrene	MG/KG	1	1	0.13 J	0.13 J	0.069 J	0.058 J	0.14 J
Benzo(b)fluoranthene	MG/KG	1	5.6	0.17 J	0.16 J	0.082 J	0.069 J	0.19 J
Benzo(g,h,i)perylene	MG/KG	100	500	0.092 J	0.085 J	0.056 J	0.057 J	0.096 J
Benzo(k)fluoranthene	MG/KG	0.8	56	0.061 J	0.058 J	0.037 J	0.035 J	0.087 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-			0.058 J	0.033 J	
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-					
Chrysene	MG/KG	1	56	0.12 J	0.11 J	0.057 J	0.053 J	0.13 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.024 J				0.031 J
Dibenzofuran	MG/KG	7	350		0.028 J			
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Fluoranthene	MG/KG	100	500	0.18 J	0.19 J	0.082 J	0.073 J	0.21

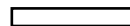
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-34	SB-34	SB-35	SB-35	SB-35
Sample ID				SB-34-(10-11)	SB-34-(20-20.9)	01182011-FD-1	SB-35-(9.5-10.0)	SB-35-(17.2-17.8)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-11.0	20.0-20.9	9.5-10.0	9.5-10.0	17.2-17.8
Date Sampled				01/14/11	01/14/11	01/18/11	01/18/11	01/18/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
Fluorene	MG/KG	30	500		0.036 J			0.032 J
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.078 J	0.088 J	0.047 J	0.040 J	0.091 J
Naphthalene	MG/KG	12	500	0.033 J	0.088 J			
Phenanthrene	MG/KG	100	500	0.11 J	0.17 J	0.052 J	0.043 J	0.15 J
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	0.19	0.19 J	0.083 J	0.076 J	0.19 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	1.39	1.504	0.625	0.556	1.555
Total Semivolatile Organic Compounds	MG/KG	-	-	1.39	1.532	0.683	0.589	1.555
Metals								
Aluminum	MG/KG	10000 CP-51	-	9,950	15,200	5,580 J	5,690 J	14,000 J
Antimony	MG/KG	12 CP-51	-	0.43 J	0.47 J	0.48 J	0.37 J	1.3 J
Arsenic	MG/KG	13	16	3.8	11.6			1.2
Barium	MG/KG	350	400	73.3	33.6	33.7 J	36.9 J	59.6 J
Beryllium	MG/KG	7.2	590	0.69	0.75	0.45 J	0.41 J	0.48 J
Cadmium	MG/KG	2.5	9.3	0.93	1.1		0.099 J	0.40
Calcium	MG/KG	10000 CP-51	-	15,900 J	1,950 J	46,000 J	31,800 J	1,150 J
Chromium	MG/KG	30	1500	19.5	30.9	11.1 J	11.4 J	27.9 J
Cobalt	MG/KG	20 CP-51	-	10.4	10.4	7.4 J	6.2 J	9.4 J
Copper	MG/KG	50	270	36.3 J	16.0 J	16.0	13.5	17.5
Iron	MG/KG	2000 CP-51	-	15,700	34,400	10,400 J	9,110 J	19,400 J

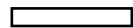
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

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Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-34	SB-34	SB-35	SB-35	SB-35
Sample ID				SB-34-(10-11)	SB-34-(20-20.9)	01182011-FD-1	SB-35-(9.5-10.0)	SB-35-(17.2-17.8)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-11.0	20.0-20.9	9.5-10.0	9.5-10.0	17.2-17.8
Date Sampled				01/14/11	01/14/11	01/18/11	01/18/11	01/18/11
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Metals								
Lead	MG/KG	63	1000	129	16.2	16.7 J	9.6 J	10.9 J
Magnesium	MG/KG	-	-	8,950 J	7,250 J	29,900 J	21,000 J	5,870 J
Manganese	MG/KG	1600	10000	305	469	272 J	461 J	251 J
Mercury	MG/KG	0.18	2.8	0.20 J	0.044 J	0.040 J	0.067 J	0.039 J
Nickel	MG/KG	30	310	22.1	25.0	10.4 J	11.1 J	21.2 J
Potassium	MG/KG	-	-	1,440	3,710	1,110	1,270	2,010
Selenium	MG/KG	3.9	1500	1.2	2.6			
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	406	4,360	322	322	1,430
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	26.2	40.1	17.9 J	17.6 J	31.8 J
Zinc	MG/KG	109	10000	86.6 J	71.6 J	38.1 J	33.2 J	57.6 J

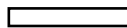
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
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 Printed: 12/28/2015 10:33:06 AM

[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-36	SB-36	SB-36	SB-36	SB-37
Sample ID				01132011-FD-1	SB-36-(3-4)	SB-36-(6.5-7)	SB-36-(13.5-14.2)	SB-37-(3-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	3.0-4.0	6.5-7.0	13.5-14.2	3.0-4.0
Date Sampled				01/13/11	01/13/11	01/17/11	01/17/11	01/06/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Volatile Organic Compounds								
1,2-Dichlorobenzene	MG/KG	1.1	500					
2-Butanone	MG/KG	0.12	500			0.0038 J		
Acetone	MG/KG	0.05	500	0.014 J		0.020 J	0.014 J	
Benzene	MG/KG	0.06	44			0.0021 J		
Carbon disulfide	MG/KG	2.7 CP-51	-	0.0012 J			0.0050	
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Toluene	MG/KG	0.7	500			0.0015 J		
Xylene (total)	MG/KG	0.26	500					
Total BTEX	MG/KG	-	-	ND	ND	0.0036	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.0152	ND	0.0274	0.019	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	3.6 J	0.94	0.028 J		0.37
2,4-Dimethylphenol	MG/KG	-	-	0.40	0.19			

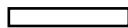
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

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Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]


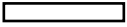
TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-36	SB-36	SB-36	SB-36	SB-37
Sample ID				01132011-FD-1	SB-36-(3-4)	SB-36-(6.5-7)	SB-36-(13.5-14.2)	SB-37-(3-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	3.0-4.0	6.5-7.0	13.5-14.2	3.0-4.0
Date Sampled				01/13/11	01/13/11	01/17/11	01/17/11	01/06/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	11	3.0	0.12 J		1.2
2-Methylphenol (o-cresol)	MG/KG	0.33	500	0.23	0.12 J			0.021 J
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500	0.64	0.27	0.025 J		0.054 J
Acenaphthene	MG/KG	20	500	7.5 J	2.0	0.052 J		0.78
Acenaphthylene	MG/KG	100	500	25	6.8	1.4		2.7
Acetophenone	MG/KG	-	-	0.048 J	0.023 J	0.074 J		0.038 J
Anthracene	MG/KG	100	500	38	11	0.49		2.9
Benzo(a)anthracene	MG/KG	1	5.6	58	17	1.4		6.3
Benzo(a)pyrene	MG/KG	1	1	50	14	1.6		5.7
Benzo(b)fluoranthene	MG/KG	1	5.6	66	17	3.3		7.1
Benzo(g,h,i)perylene	MG/KG	100	500	30	8.3	2.3		3.8
Benzo(k)fluoranthene	MG/KG	0.8	56	21	6.8	1.1		1.7
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-			0.046 J		0.30
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	12	3.4 J	0.066 J		1.1
Chrysene	MG/KG	1	56	51	14	1.7		5.5
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	6.3 J	2.5	0.60		1.0
Dibenzofuran	MG/KG	7	350	19	5.5			1.8
Di-n-butylphthalate	MG/KG	0.014 CP-51	-			0.054 J		0.059 J
Fluoranthene	MG/KG	100	500	130	39	1.6	0.052 J	15

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
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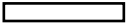
TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-36	SB-36	SB-36	SB-36	SB-37
Sample ID				01132011-FD-1	SB-36-(3-4)	SB-36-(6.5-7)	SB-36-(13.5-14.2)	SB-37-(3-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	3.0-4.0	6.5-7.0	13.5-14.2	3.0-4.0
Date Sampled				01/13/11	01/13/11	01/17/11	01/17/11	01/06/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
Fluorene	MG/KG	30	500	26	7.8	0.14 J		2.3
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	27	7.6	2.0 J		3.3
Naphthalene	MG/KG	12	500	21	7.5	0.23		3.6
Phenanthrene	MG/KG	100	500	140	39	0.61	0.055 J	15
Phenol	MG/KG	0.33	500	0.39	0.15 J			0.033 J
Pyrene	MG/KG	100	500	120	35	2.0	0.048 J	14
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	827.8	238.3	20.642	0.155	91.88
Total Semivolatile Organic Compounds	MG/KG	-	-	864.108	248.893	20.935	0.155	95.655
Metals								
Aluminum	MG/KG	10000 CP-51	-	8,680	10,800	4,710 J	14,700 J	7,020
Antimony	MG/KG	12 CP-51	-	0.66 J	0.86 J	1.7 J	0.67 J	2.8 J
Arsenic	MG/KG	13	16	3.9	4.2	9.2	11.1	9.2
Barium	MG/KG	350	400	73.3	87.9	230 J	28.5 J	367
Beryllium	MG/KG	7.2	590	0.26	0.35	0.16 J	0.73 J	0.47
Cadmium	MG/KG	2.5	9.3	0.75	0.97	1.0	0.69	2.4 J
Calcium	MG/KG	10000 CP-51	-	4,190 J	3,170 J	11,100 J	1,930 J	20,500 J
Chromium	MG/KG	30	1500	23.4	27.0	15.9 J	31.1 J	28.0
Cobalt	MG/KG	20 CP-51	-	7.7	8.2	4.7 J	11.0 J	7.3 J
Copper	MG/KG	50	270	46.9 J	115 J	85.4	13.9	148
Iron	MG/KG	2000 CP-51	-	17,800	20,800	24,000 J	32,400 J	34,900 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-36	SB-36	SB-36	SB-36	SB-37
Sample ID				01132011-FD-1	SB-36-(3-4)	SB-36-(6.5-7)	SB-36-(13.5-14.2)	SB-37-(3-4)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	3.0-4.0	6.5-7.0	13.5-14.2	3.0-4.0
Date Sampled				01/13/11	01/13/11	01/17/11	01/17/11	01/06/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Metals								
Lead	MG/KG	63	1000	85.1	96.2	355 J	13.6 J	762 J
Magnesium	MG/KG	-	-	4,380 J	4,580 J	1,820 J	7,250 J	4,370
Manganese	MG/KG	1600	10000	132	171	166 J	553 J	333
Mercury	MG/KG	0.18	2.8	0.16 J	0.21 J	0.61 J	0.0090 J	1.0
Nickel	MG/KG	30	310	19.2	20.2	13.8 J	25.8 J	23.0
Potassium	MG/KG	-	-	1,790	2,420	1,440	3,360	2,270
Selenium	MG/KG	3.9	1500	1.4	1.3 J	0.95 J		
Silver	MG/KG	2	1500			0.37 J		0.16 J
Sodium	MG/KG	-	-	194	206	409	3,730	347
Thallium	MG/KG	5 CP-51	-					0.99
Vanadium	MG/KG	39 CP-51	-	27.0	34.0	35.3 J	37.8 J	22.9
Zinc	MG/KG	109	10000	113 J	142 J	230 J	72.7 J	556 J

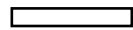
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Concentration Exceeds Criteria (1)



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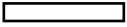
TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-37	SB-37	SB-37	SB-38	SB-38
Sample ID				SB-37-(8.5-9)	SB-37-(8.2-9.0)	SB-37-(13.5-14.5)	SB-38-(4-5)	SB-38-(7.8-8.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				8.5-9.0	8.2-9.0	13.5-14.5	4.0-5.0	7.8-8.5
Date Sampled				01/06/11	01/11/11	01/11/11	01/06/11	01/11/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Volatile Organic Compounds								
1,2-Dichlorobenzene	MG/KG	1.1	500		0.0078 J			
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500		0.11 J	0.013 J		0.019 J
Benzene	MG/KG	0.06	44		0.026 J		0.0016 J	0.0074
Carbon disulfide	MG/KG	2.7 CP-51	-		0.0088 J			
Chloroform	MG/KG	0.37	350	0.11 J				
Cyclohexane	MG/KG	-	-	2.0	0.49 J			
Ethylbenzene	MG/KG	1	390	2.8	8.6 J			0.019
Isopropylbenzene	MG/KG	2.3 CP-51	-	0.41	0.61 J			0.0048
Methyl tert-butyl ether	MG/KG	0.93	500					
Methylcyclohexane	MG/KG	-	-	1.6	0.67 J			0.0042 J
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					0.048
Toluene	MG/KG	0.7	500		0.082 J		0.0018 J	0.017
Xylene (total)	MG/KG	0.26	500	0.33 J	4.6 J			0.083
Total BTEX	MG/KG	-	-	3.13	13.308	ND	0.0034	0.1264
Total Volatile Organic Compounds	MG/KG	-	-	7.25	15.2046	0.013	0.0034	0.2024
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-				0.071 J	54 J
2,4-Dimethylphenol	MG/KG	-	-					

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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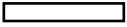
TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-37	SB-37	SB-37	SB-38	SB-38
Sample ID				SB-37-(8.5-9)	SB-37-(8.2-9.0)	SB-37-(13.5-14.5)	SB-38-(4-5)	SB-38-(7.8-8.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				8.5-9.0	8.2-9.0	13.5-14.5	4.0-5.0	7.8-8.5
Date Sampled				01/06/11	01/11/11	01/11/11	01/06/11	01/11/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
2-Methylnaphthalene	MG/KG	0.41 CP-51	-				0.43	520
2-Methylphenol (o-cresol)	MG/KG	0.33	500				0.042 J	
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500				0.14 J	
Acenaphthene	MG/KG	20	500	6.1	3.3		0.15 J	17
Acenaphthylene	MG/KG	100	500	3.8			3.6	29
Acetophenone	MG/KG	-	-	0.85 J			0.12 J	24
Anthracene	MG/KG	100	500	2.4	1.5		2.0	45 J
Benzo(a)anthracene	MG/KG	1	5.6	3.6	0.72 J		7.1	150
Benzo(a)pyrene	MG/KG	1	1	2.0 J	0.54 J		6.4	65 J
Benzo(b)fluoranthene	MG/KG	1	5.6	7.1	0.50 J		11	120
Benzo(g,h,i)perylene	MG/KG	100	500	3.7	0.36 J		7.4	56 J
Benzo(k)fluoranthene	MG/KG	0.8	56	3.5	0.45 J		2.5	24
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.36 J			0.15 J	
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	0.40 J			0.19 J	
Chrysene	MG/KG	1	56	6.9	1.6 J		7.4	160
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	1.4 J	0.12 J		1.7	15
Dibenzofuran	MG/KG	7	350	3.0	1.7 J		0.21	14
Di-n-butylphthalate	MG/KG	0.014 CP-51	-				0.035 J	
Fluoranthene	MG/KG	100	500	3.0	1.5 J		8.7	190

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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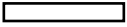
TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-37	SB-37	SB-37	SB-38	SB-38
Sample ID				SB-37-(8.5-9)	SB-37-(8.2-9.0)	SB-37-(13.5-14.5)	SB-38-(4-5)	SB-38-(7.8-8.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				8.5-9.0	8.2-9.0	13.5-14.5	4.0-5.0	7.8-8.5
Date Sampled				01/06/11	01/11/11	01/11/11	01/06/11	01/11/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
Fluorene	MG/KG	30	500	6.2	3.6		0.29	88
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	3.2 J	0.29 J		6.0 J	44 J
Naphthalene	MG/KG	12	500	0.80 J	0.54		1.9	1,100
Phenanthrene	MG/KG	100	500	10	5.8		3.0	420
Phenol	MG/KG	0.33	500				0.047 J	
Pyrene	MG/KG	100	500	5.5	2.8 J		14	300
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	69.2	23.62	ND	83.57	3,343
Total Semivolatile Organic Compounds	MG/KG	-	-	73.81	25.32	ND	84.575	3,435
Metals								
Aluminum	MG/KG	10000 CP-51	-	3,310	2,670	12,900	9,990	2,220
Antimony	MG/KG	12 CP-51	-	1.0 J		0.66 J	1.3 J	3.2 J
Arsenic	MG/KG	13	16	4.1	3.9	4.2	5.6	32.7
Barium	MG/KG	350	400	67.4	84.3	31.7	69.3	88.6
Beryllium	MG/KG	7.2	590	0.19 J	0.17 J	0.41	0.40	0.039 J
Cadmium	MG/KG	2.5	9.3	0.12 J	0.39	0.54	0.66 J	2.7
Calcium	MG/KG	10000 CP-51	-	567 J	1,870 J	1,060 J	3,630 J	725 J
Chromium	MG/KG	30	1500	13.9	6.8	19.2	22.8	14.2
Cobalt	MG/KG	20 CP-51	-	1.5 J	3.3	8.2	4.4 J	4.8
Copper	MG/KG	50	270	26.7	58.3 J	13.3 J	72.9	319 J
Iron	MG/KG	2000 CP-51	-	12,800 J	14,000	20,100	18,200 J	62,200

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Advanced Selection: BLOCK 2591 LOT 46
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-37	SB-37	SB-37	SB-38	SB-38
Sample ID				SB-37-(8.5-9)	SB-37-(8.2-9.0)	SB-37-(13.5-14.5)	SB-38-(4-5)	SB-38-(7.8-8.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				8.5-9.0	8.2-9.0	13.5-14.5	4.0-5.0	7.8-8.5
Date Sampled				01/06/11	01/11/11	01/11/11	01/06/11	01/11/11
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Metals								
Lead	MG/KG	63	1000	54.6 J	20.7	7.7	169 J	275
Magnesium	MG/KG	-	-	1,080	515 J	3,620 J	5,740	1,470 J
Manganese	MG/KG	1600	10000	38.0	61.4	816	156	211
Mercury	MG/KG	0.18	2.8	0.44	0.15 J	0.0094 J	0.70	0.58 J
Nickel	MG/KG	30	310	9.2	6.8	14.5	18.0	9.7
Potassium	MG/KG	-	-	613	1,170	1,010	2,360	868
Selenium	MG/KG	3.9	1500		1.1	1.2 J		4.2
Silver	MG/KG	2	1500	0.085 J			0.080 J	
Sodium	MG/KG	-	-	74.2	75.6	916	285	292
Thallium	MG/KG	5 CP-51	-	0.56 J			0.47 J	0.84 J
Vanadium	MG/KG	39 CP-51	-	21.5	13.3	26.2	33.1	24.1
Zinc	MG/KG	109	10000	26.3 J	26.5 J	33.0 J	169 J	162 J

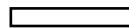
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

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Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
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TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-38	SB-38	SB-39	SB-39	SB-39
Sample ID				SB-38-(11-11.5)	SB-38-(15.5-16.5)	SB-39-(3.5-4)	SB-39-(5-5.5)	SB-39-(6.7-7.7)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.0-11.5	15.5-16.5	3.5-4.0	5.0-5.5	6.7-7.7
Date Sampled				01/11/11	01/11/11	01/07/11	01/07/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2-Dichlorobenzene	MG/KG	1.1	500					
2-Butanone	MG/KG	0.12	500		0.0057 J			
Acetone	MG/KG	0.05	500		0.032 J		0.059 J	
Benzene	MG/KG	0.06	44		0.0019 J		0.035	0.31 J
Carbon disulfide	MG/KG	2.7 CP-51	-		0.041			
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-				0.091	0.43
Ethylbenzene	MG/KG	1	390					
Isopropylbenzene	MG/KG	2.3 CP-51	-	1.0			0.24	1.2
Methyl tert-butyl ether	MG/KG	0.93	500		0.0022 J			
Methylcyclohexane	MG/KG	-	-	1.3			0.36	2.2
Methylene chloride	MG/KG	0.05	500		0.0017 J			
Styrene	MG/KG	300 CP-51	-					
Toluene	MG/KG	0.7	500		0.0069		0.016 J	
Xylene (total)	MG/KG	0.26	500					
Total BTEX	MG/KG	-	-	ND	0.0088	ND	0.051	0.31
Total Volatile Organic Compounds	MG/KG	-	-	2.3	0.0914	ND	0.801	4.14
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-					
2,4-Dimethylphenol	MG/KG	-	-					

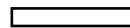
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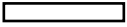
TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-38	SB-38	SB-39	SB-39	SB-39
Sample ID				SB-38-(11-11.5)	SB-38-(15.5-16.5)	SB-39-(3.5-4)	SB-39-(5-5.5)	SB-39-(6.7-7.7)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.0-11.5	15.5-16.5	3.5-4.0	5.0-5.5	6.7-7.7
Date Sampled				01/11/11	01/11/11	01/07/11	01/07/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	43			12	70
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
Acenaphthene	MG/KG	20	500	2.6			9.1	8.4
Acenaphthylene	MG/KG	100	500			0.73 J		
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500	1.5		0.60 J	4.3	2.6
Benzo(a)anthracene	MG/KG	1	5.6	1.7		2.4	3.4	1.4 J
Benzo(a)pyrene	MG/KG	1	1	1.4		2.4	1.7 J	0.76 J
Benzo(b)fluoranthene	MG/KG	1	5.6	1.2		3.6	1.3 J	0.88 J
Benzo(g,h,i)perylene	MG/KG	100	500	1.1		1.9 J	0.74 J	
Benzo(k)fluoranthene	MG/KG	0.8	56	1.1		1.3 J	0.49 J	0.43 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-				0.45 J	
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-			0.22 J		1.0 J
Chrysene	MG/KG	1	56	2.3		2.5	5.2	1.5 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.33		0.48 J	0.33 J	
Dibenzofuran	MG/KG	7	350	1.3				4.1
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Fluoranthene	MG/KG	100	500	1.7		4.5	3.8	2.7

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-38	SB-38	SB-39	SB-39	SB-39
Sample ID				SB-38-(11-11.5)	SB-38-(15.5-16.5)	SB-39-(3.5-4)	SB-39-(5-5.5)	SB-39-(6.7-7.7)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.0-11.5	15.5-16.5	3.5-4.0	5.0-5.5	6.7-7.7
Date Sampled				01/11/11	01/11/11	01/07/11	01/07/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Fluorene	MG/KG	30	500	3.8 J		0.22 J	11	10
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.87		1.7 J	0.58 J	0.36 J
Naphthalene	MG/KG	12	500	4.7				8.5
Phenanthrene	MG/KG	100	500	10		2.3	23	19
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	3.6 J		4.4	9.1	5.7
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	80.9	ND	29.03	86.04	132.23
Total Semivolatile Organic Compounds	MG/KG	-	-	82.2	ND	29.25	86.49	137.33
Metals								
Aluminum	MG/KG	10000 CP-51	-	11,600	14,100	6,290	7,180	9,440 J
Antimony	MG/KG	12 CP-51	-	0.38 J		1.2 J	0.99 J	1.0 J
Arsenic	MG/KG	13	16	1.5	8.6	3.9	1.7	1.3
Barium	MG/KG	350	400	144	31.0	142	58.9	38.5 J
Beryllium	MG/KG	7.2	590		0.72	0.35	0.39	0.31 J
Cadmium	MG/KG	2.5	9.3	0.78	0.84	1.0 J	1.2 J	0.26
Calcium	MG/KG	10000 CP-51	-	6,630 J	1,720 J	29,000 J	9,230 J	2,540 J
Chromium	MG/KG	30	1500	15.4	29.1	15.5	25.0	17.5 J
Cobalt	MG/KG	20 CP-51	-	10.1	10	4.4 J	6.7 J	10.7 J
Copper	MG/KG	50	270	37.3 J	12.4 J	34.2	35.6	15.9
Iron	MG/KG	2000 CP-51	-	24,100	29,300	10,700 J	16,400 J	12,300 J

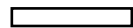
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TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-38	SB-38	SB-39	SB-39	SB-39
Sample ID				SB-38-(11-11.5)	SB-38-(15.5-16.5)	SB-39-(3.5-4)	SB-39-(5-5.5)	SB-39-(6.7-7.7)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.0-11.5	15.5-16.5	3.5-4.0	5.0-5.5	6.7-7.7
Date Sampled				01/11/11	01/11/11	01/07/11	01/07/11	01/17/11
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Lead	MG/KG	63	1000	8.1	12.4	163 J	55.2 J	6.3 J
Magnesium	MG/KG	-	-	5,320 J	6,860 J	2,930	5,420	4,280 J
Manganese	MG/KG	1600	10000	554	421	261	151	181 J
Mercury	MG/KG	0.18	2.8	0.042 J	0.017 J	0.58	0.32	0.0098 J
Nickel	MG/KG	30	310	11.5	23.7	14.2	21.0	20.1 J
Potassium	MG/KG	-	-	6,460	3,070	1,990	2,050	1,670
Selenium	MG/KG	3.9	1500	0.94 J	2.2 J			
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	270	4,680	281	141	185
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	45.8	37.7	19.0	27.2	22.9 J
Zinc	MG/KG	109	10000	44.0 J	69.1 J	136 J	130 J	96.3 J

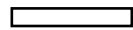
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Concentration Exceeds Criteria (2)

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TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-39	SB-40	SB-40
Sample ID				SB-39-(14-15)	SB-40-(9.5-10)	SB-40-(13.5-14.5)
Matrix				Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	9.5-10.0	13.5-14.5
Date Sampled				01/17/11	01/14/11	01/14/11
Parameter	Units	Criteria (1)	Criteria (2)			
Volatile Organic Compounds						
1,2-Dichlorobenzene	MG/KG	1.1	500			
2-Butanone	MG/KG	0.12	500			0.0062 J
Acetone	MG/KG	0.05	500	0.011 J		0.030 J
Benzene	MG/KG	0.06	44			
Carbon disulfide	MG/KG	2.7 CP-51	-	0.014		
Chloroform	MG/KG	0.37	350			
Cyclohexane	MG/KG	-	-			
Ethylbenzene	MG/KG	1	390			
Isopropylbenzene	MG/KG	2.3 CP-51	-			
Methyl tert-butyl ether	MG/KG	0.93	500			
Methylcyclohexane	MG/KG	-	-			
Methylene chloride	MG/KG	0.05	500	0.0017 J		
Styrene	MG/KG	300 CP-51	-			
Toluene	MG/KG	0.7	500			
Xylene (total)	MG/KG	0.26	500			
Total BTEX	MG/KG	-	-	ND	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.0267	ND	0.0362
Semivolatile Organic Compounds						
1,1'-Biphenyl	MG/KG	60 CP-51	-			
2,4-Dimethylphenol	MG/KG	-	-			

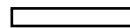
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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-39	SB-40	SB-40
Sample ID				SB-39-(14-15)	SB-40-(9.5-10)	SB-40-(13.5-14.5)
Matrix				Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	9.5-10.0	13.5-14.5
Date Sampled				01/17/11	01/14/11	01/14/11
Parameter	Units	Criteria (1)	Criteria (2)			
Semivolatile Organic Compounds						
2-Methylnaphthalene	MG/KG	0.41 CP-51	-			
2-Methylphenol (o-cresol)	MG/KG	0.33	500			
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500			
Acenaphthene	MG/KG	20	500		2.4	0.020 J
Acenaphthylene	MG/KG	100	500			
Acetophenone	MG/KG	-	-			
Anthracene	MG/KG	100	500		0.69	
Benzo(a)anthracene	MG/KG	1	5.6		0.45	
Benzo(a)pyrene	MG/KG	1	1		0.26	
Benzo(b)fluoranthene	MG/KG	1	5.6		0.25	
Benzo(g,h,i)perylene	MG/KG	100	500		0.14 J	
Benzo(k)fluoranthene	MG/KG	0.8	56		0.078 J	
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-			
Butylbenzylphthalate	MG/KG	100 CP-51	-			
Carbazole	MG/KG	-	-			
Chrysene	MG/KG	1	56		0.97	
Dibenz(a,h)anthracene	MG/KG	0.33	0.56		0.059 J	
Dibenzofuran	MG/KG	7	350		0.78	
Di-n-butylphthalate	MG/KG	0.014 CP-51	-			
Fluoranthene	MG/KG	100	500		0.70	0.020 J

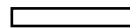
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-39	SB-40	SB-40
Sample ID				SB-39-(14-15)	SB-40-(9.5-10)	SB-40-(13.5-14.5)
Matrix				Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	9.5-10.0	13.5-14.5
Date Sampled				01/17/11	01/14/11	01/14/11
Parameter	Units	Criteria (1)	Criteria (2)			
Semivolatile Organic Compounds						
Fluorene	MG/KG	30	500		2.4	
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6		0.098 J	
Naphthalene	MG/KG	12	500		0.47	0.052 J
Phenanthrene	MG/KG	100	500		2.2	
Phenol	MG/KG	0.33	500			
Pyrene	MG/KG	100	500		1.7	
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	ND	12.865	0.092
Total Semivolatile Organic Compounds	MG/KG	-	-	ND	13.645	0.092
Metals						
Aluminum	MG/KG	10000 CP-51	-	11,200 J	1,330	14,600
Antimony	MG/KG	12 CP-51	-	0.76 J		0.63 J
Arsenic	MG/KG	13	16	9.1	2.9	2.5
Barium	MG/KG	350	400	22.3 J	54.1	87.2
Beryllium	MG/KG	7.2	590	0.55 J	0.064 J	0.69
Cadmium	MG/KG	2.5	9.3	0.49	0.16 J	1.0
Calcium	MG/KG	10000 CP-51	-	3,230 J	938 J	1,460 J
Chromium	MG/KG	30	1500	23.4 J	6.9	41.6
Cobalt	MG/KG	20 CP-51	-	8.2 J	1.7 J	15.6
Copper	MG/KG	50	270	10.1	23.6 J	27.6 J
Iron	MG/KG	2000 CP-51	-	38,600 J	6,900	33,700

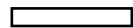
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]

TABLE 4-3C
BLOCK 2591 LOT 46
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-39	SB-40	SB-40
Sample ID				SB-39-(14-15)	SB-40-(9.5-10)	SB-40-(13.5-14.5)
Matrix				Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	9.5-10.0	13.5-14.5
Date Sampled				01/17/11	01/14/11	01/14/11
Parameter	Units	Criteria (1)	Criteria (2)			
Metals						
Lead	MG/KG	63	1000	10.4 J	30.2	10.3
Magnesium	MG/KG	-	-	5,830 J	412 J	6,200 J
Manganese	MG/KG	1600	10000	388 J	22.6	368
Mercury	MG/KG	0.18	2.8	0.0073 J	0.014 J	0.018 J
Nickel	MG/KG	30	310	19.6 J	6.0	26.8
Potassium	MG/KG	-	-	2,620	412	2,770
Selenium	MG/KG	3.9	1500		1.4 J	1.5
Silver	MG/KG	2	1500			
Sodium	MG/KG	-	-	3,400	93.7	1,500
Thallium	MG/KG	5 CP-51	-			
Vanadium	MG/KG	39 CP-51	-	31.1 J	8.6	45.2
Zinc	MG/KG	109	10000	53.4 J	18.9 J	63.2 J

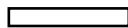
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

Advanced Selection: BLOCK 2591 LOT 46
 J:\Projects\11175538.00000\DB\Program\EDMS.mde
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[SITEID] = '02' AND [MATRIX] = 'SO' AND [LOCID] = 'MW-01' OR [LOCID] = 'SB-32' OR [LOCID] = 'MW-11' OR [LOCID] = 'SB-40' OR [LOCID] = 'SB-38' OR [LOCID] = 'SB-37' OR [LOCID] = 'SB-39' OR [LOCID] = 'SB-03' OR [LOCID] = 'SB-02' OR [LOCID] = 'SB-36' OR [LOCID] = 'SB-01' OR [LOCID] = 'SB-04' OR [LOCID] = 'SB-05' OR [LOCID] = 'SB-35' OR [LOCID] = 'SB-34' OR [LOCID]


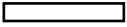
TABLE 4-3D
BLOCK 2590 LOT 51
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-09	SB-09	SB-11	SB-11	SB-11
Sample ID				SB-09-(4.5-5.5)	SB-09-(7-8)	SB-11-(3-4)	SB-11-(4.5-5)	SB-11-(13-13.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.5	7.0-8.0	3.0-4.0	4.5-5.0	13.0-13.5
Date Sampled				04/27/10	04/28/10	04/28/10	04/28/10	04/29/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
Acetone	MG/KG	0.05	500		0.010 J		0.036 J	0.017 J
Carbon disulfide	MG/KG	2.7 CP-51	-					
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Total Volatile Organic Compounds	MG/KG	-	-	ND	0.01	ND	0.036	0.017
Semivolatile Organic Compounds								
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.21 J		0.034 J	2.5 J	0.026 J
Acenaphthene	MG/KG	20	500	0.14 J		0.038 J	0.11 J	
Acenaphthylene	MG/KG	100	500	0.35		1.4	1.5 J	
Acetophenone	MG/KG	-	-			0.23	0.36 J	
Anthracene	MG/KG	100	500	0.43		0.71	0.51 J	
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	1.3		3.0	2.2 J	0.033 J
Benzo(a)pyrene	MG/KG	1	1	1.1		2.4	1.4 J	0.027 J
Benzo(b)fluoranthene	MG/KG	1	5.6	0.96 J		4.4 J	3.3 J	0.032 J
Benzo(g,h,i)perylene	MG/KG	100	500	0.67		3.1	2.4 J	
Benzo(k)fluoranthene	MG/KG	0.8	56	1.0 J		2.6	2.6 J	
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.46	0.024 J	0.049 J	2.7	0.044 J
Butylbenzylphthalate	MG/KG	100 CP-51	-				0.040 J	
Carbazole	MG/KG	-	-	0.069 J		0.081 J	0.087 J	
Chrysene	MG/KG	1	56	1.1		3.7	3.3 J	0.022 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.


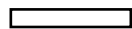
TABLE 4-3D
BLOCK 2590 LOT 51
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-09	SB-09	SB-11	SB-11	SB-11
Sample ID				SB-09-(4.5-5.5)	SB-09-(7-8)	SB-11-(3-4)	SB-11-(4.5-5)	SB-11-(13-13.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.5	7.0-8.0	3.0-4.0	4.5-5.0	13.0-13.5
Date Sampled				04/27/10	04/28/10	04/28/10	04/28/10	04/29/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.21 J		0.86 J	0.72 J	
Dibenzofuran	MG/KG	7	350	0.047 J		0.058 J	0.16 J	
Di-n-octylphthalate	MG/KG	100 CP-51	-			0.032 J		
Fluoranthene	MG/KG	100	500	2.0		5.2	3.4 J	0.047 J
Fluorene	MG/KG	30	500	0.15 J		0.12 J	0.34 J	
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.66 J		2.5 J	1.9 J	
Naphthalene	MG/KG	12	500	0.36		0.11 J	3.4 J	0.12 J
Phenanthrene	MG/KG	100	500	1.1		1.5	2.7 J	
Pyrene	MG/KG	100	500	3.2		7.1	4.2 J	0.054 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	14.94	ND	38.772	36.48	0.361
Total Semivolatile Organic Compounds	MG/KG	-	-	15.516	0.024	39.222	39.827	0.405
Metals								
Aluminum	MG/KG	10000 CP-51	-	10,200	9,540	6,340	4,960	11,500
Arsenic	MG/KG	13	16	2.6	1.3	7.9	8.2	0.79 J
Barium	MG/KG	350	400	92.6	48.6	80.1	78.1	69.1
Beryllium	MG/KG	7.2	590		0.30 J			
Cadmium	MG/KG	2.5	9.3	0.34	0.054 J	0.13 J	0.66	0.14 J
Calcium	MG/KG	10000 CP-51	-	13,400 J	896 J	1,010 J	7,160 J	1,390 J
Chromium	MG/KG	30	1500	21.2	15.2	20.5	12.5	25.1
Cobalt	MG/KG	20 CP-51	-	7.7	6.4	4.7	6.6	8.9

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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 Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

TABLE 4-3D
BLOCK 2590 LOT 51
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-09	SB-09	SB-11	SB-11	SB-11
Sample ID				SB-09-(4.5-5.5)	SB-09-(7-8)	SB-11-(3-4)	SB-11-(4.5-5)	SB-11-(13-13.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.5-5.5	7.0-8.0	3.0-4.0	4.5-5.0	13.0-13.5
Date Sampled				04/27/10	04/28/10	04/28/10	04/28/10	04/29/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Copper	MG/KG	50	270	42.0	8.9	55.0	75.1	18.9
Iron	MG/KG	2000 CP-51	-	18,500	16,500	30,000	38,100	27,100
Lead	MG/KG	63	1000	70.7	6.9	269	142	7.4
Magnesium	MG/KG	-	-	7,840	2,690	2,480	3,610	4,180
Manganese	MG/KG	1600	10000	195	287	112	159	637
Mercury	MG/KG	0.18	2.8	0.16	0.013 J	0.31	0.69	
Nickel	MG/KG	30	310	18.8	11.2	13.6	13.2	16.6
Potassium	MG/KG	-	-	2,040	645 J	1,660 J	1,370 J	1,760 J
Selenium	MG/KG	3.9	1500	2.3	1.2	2.6	2.0	2.6
Sodium	MG/KG	-	-	321	751	216	957	382
Vanadium	MG/KG	39 CP-51	-	30.1	21.4	31.7	20.8	33.9
Zinc	MG/KG	109	10000	115 J	30.4 J	44.8 J	123 J	40.8 J

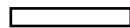
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

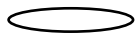
TABLE 4-3D
BLOCK 2590 LOT 51
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-12	SB-12	SB-12	SB-12	SB-12
Sample ID				SB-12-(3.5-4)	20100427-FD-1	SB-12-(4.5-5.5)	SB-12-(7-8)	SB-12-(12-13)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.0	4.5-5.5	4.5-5.5	7.0-8.0	12.0-13.0
Date Sampled				04/27/10	04/27/10	04/27/10	04/29/10	04/29/10
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Volatile Organic Compounds								
Acetone	MG/KG	0.05	500		0.0086 J	0.011 J	0.013 J	0.011 J
Carbon disulfide	MG/KG	2.7 CP-51	-					0.0037
Isopropylbenzene	MG/KG	2.3 CP-51	-				0.0050 J	
Total Volatile Organic Compounds	MG/KG	-	-	ND	0.0086	0.011	0.018	0.0147
Semivolatile Organic Compounds								
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.020 J				0.085 J
Acenaphthene	MG/KG	20	500		0.023 J	0.023 J		
Acenaphthylene	MG/KG	100	500	0.14 J		0.021 J		
Acetophenone	MG/KG	-	-	0.045 J				
Anthracene	MG/KG	100	500	0.042 J				
Benzaldehyde	MG/KG	-	-	0.040 J				
Benzo(a)anthracene	MG/KG	1	5.6	0.15 J		0.031 J		
Benzo(a)pyrene	MG/KG	1	1	0.27		0.037 J		
Benzo(b)fluoranthene	MG/KG	1	5.6	0.35 J		0.056 J		
Benzo(g,h,i)perylene	MG/KG	100	500	0.36		0.040 J		
Benzo(k)fluoranthene	MG/KG	0.8	56	0.25 J		0.026 J		
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.022 J	0.035 J	0.12 J	0.047 J	
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-					
Chrysene	MG/KG	1	56	0.17 J		0.034 J		

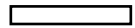
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.


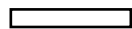
TABLE 4-3D
BLOCK 2590 LOT 51
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-12	SB-12	SB-12	SB-12	SB-12
Sample ID				SB-12-(3.5-4)	20100427-FD-1	SB-12-(4.5-5.5)	SB-12-(7-8)	SB-12-(12-13)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.0	4.5-5.5	4.5-5.5	7.0-8.0	12.0-13.0
Date Sampled				04/27/10	04/27/10	04/27/10	04/29/10	04/29/10
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Semivolatile Organic Compounds								
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.12 J				
Dibenzofuran	MG/KG	7	350					
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	0.11 J	0.027 J	0.035 J		
Fluorene	MG/KG	30	500					
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.39 J		0.045 J		
Naphthalene	MG/KG	12	500	0.026 J		0.037 J		0.40
Phenanthrene	MG/KG	100	500	0.024 J				
Pyrene	MG/KG	100	500	0.22	0.031 J	0.047 J		
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	2.642	0.081	0.432	ND	0.485
Total Semivolatile Organic Compounds	MG/KG	-	-	2.749	0.116	0.552	0.047	0.485
Metals								
Aluminum	MG/KG	10000 CP-51	-	17,300	14,000	11,900	11,800	15,900
Arsenic	MG/KG	13	16	1.6	2.0	1.4		10.4
Barium	MG/KG	350	400	72.4	85.2 J	141 J	73.6	31.5
Beryllium	MG/KG	7.2	590	0.37 J	0.42 J	0.32 J		0.75 J
Cadmium	MG/KG	2.5	9.3	0.26	0.17 J	0.19 J	0.14 J	0.28 J
Calcium	MG/KG	10000 CP-51	-	990 J	1,260 J	1,740 J	2,290 J	1,410 J
Chromium	MG/KG	30	1500	37.8	23.7	29.9	31.7	30.0
Cobalt	MG/KG	20 CP-51	-	6.8	6.9	8.8	12.9	11.1

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.

Advanced Selection: BLOCK 2590 LOT 51
J:\Projects\11175538.00000\DB\Program\EDMS.mde
Printed: 12/28/2015 10:44:03 AM
[SITEID] = '02' AND [MATRIX] = 'SO' AND ([LOCID] = 'SB-09' OR [LOCID] = 'SB-12' OR [LOCID] = 'SB-11') AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND NOT ([UNITS] = 'PERCENT' OR [PRCCODE] = 'STD')

TABLE 4-3D
BLOCK 2590 LOT 51
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-12	SB-12	SB-12	SB-12	SB-12
Sample ID				SB-12-(3.5-4)	20100427-FD-1	SB-12-(4.5-5.5)	SB-12-(7-8)	SB-12-(12-13)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.0	4.5-5.5	4.5-5.5	7.0-8.0	12.0-13.0
Date Sampled				04/27/10	04/27/10	04/27/10	04/29/10	04/29/10
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Metals								
Copper	MG/KG	50	270	34.1	17.6	24.9	33.4	13.7
Iron	MG/KG	2000 CP-51	-	34,400	24,300	22,500	30,100	45,800
Lead	MG/KG	63	1000	9.5	8.5	8.9	7.3	15.0
Magnesium	MG/KG	-	-	5,210	4,000	4,490	6,660	7,830
Manganese	MG/KG	1600	10000	214	261 J	137 J	612	622
Mercury	MG/KG	0.18	2.8				0.014 J	
Nickel	MG/KG	30	310	22.8	18.2	22.5	24.6	25.6
Potassium	MG/KG	-	-	2,650	1,610	2,090	3,960 J	3,730 J
Selenium	MG/KG	3.9	1500	2.5	1.4 J	1.7	3.1	1.8 J
Sodium	MG/KG	-	-	279	193	208	177	5,450
Vanadium	MG/KG	39 CP-51	-	52.3	33.3	37.1	45.5	42.5
Zinc	MG/KG	109	10000	56.5 J	50.9 J	60.1 J	58.0 J	80.8 J

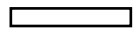
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

J - The reported concentration is an estimated value. Blank cell or ND - Not detected. NA - Not analyzed.

Only Detected Results Reported.

TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-05	MW-05	MW-05	MW-05	MW-06
Sample ID				MW-05-(3-3.5)	MW-05-(4.5-5)	MW-05-(15-16)	MW-05-(20.5-21)	MW-06-(4-4.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-3.5	4.5-5.0	15.0-16.0	20.5-21.0	4.0-4.5
Date Sampled				04/26/10	04/26/10	04/30/10	04/30/10	05/05/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	500				1.3 J	
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500		0.047 J			
Benzene	MG/KG	0.06	44		0.047	3.1	21	
Carbon disulfide	MG/KG	2.7 CP-51	-					
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390		0.36	29	93	
Isopropylbenzene	MG/KG	2.3 CP-51	-		0.092 J	0.68 J	2.2 J	
Methylcyclohexane	MG/KG	-	-		0.0076 J			
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-			17	40	
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500		0.014	13	28	
Xylene (total)	MG/KG	0.26	500		0.19	49	170	
Total BTEX	MG/KG	-	-	ND	0.611	94.1	312	ND
Total Volatile Organic Compounds	MG/KG	-	-	ND	0.7576	111.78	355.5	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-		0.37 J	1.4	29	

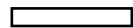
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.


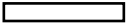
TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-05	MW-05	MW-05	MW-05	MW-06
Sample ID				MW-05-(3-3.5)	MW-05-(4.5-5)	MW-05-(15-16)	MW-05-(20.5-21)	MW-06-(4-4.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-3.5	4.5-5.0	15.0-16.0	20.5-21.0	4.0-4.5
Date Sampled				04/26/10	04/26/10	04/30/10	04/30/10	05/05/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-				1.2 J	
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.27	14	17 J	180	0.058 J
2-Methylphenol (o-cresol)	MG/KG	0.33	500	0.024 J				
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500	0.044 J		0.031 J		
3,3'-Dichlorobenzidine	MG/KG	-	-				0.68 J	
Acenaphthene	MG/KG	20	500	2.2	5.4	1.2	22	
Acenaphthylene	MG/KG	100	500	1.8	1.3 J	8.4 J	64 J	0.096 J
Acetophenone	MG/KG	-	-	0.12 J	0.18 J			
Anthracene	MG/KG	100	500	3.7 J	3.2	2.9	24 J	0.050 J
Benzaldehyde	MG/KG	-	-		0.33 J			
Benzo(a)anthracene	MG/KG	1	5.6	17	5.1	2.6	21 J	0.38
Benzo(a)pyrene	MG/KG	1	1	2.5	3.9	1.9 J	18 J	0.58 J
Benzo(b)fluoranthene	MG/KG	1	5.6	17	3.3 J	1.4	11 J	0.66 J
Benzo(g,h,i)perylene	MG/KG	100	500	7.7	1.8 J	0.57	4.5 J	0.52
Benzo(k)fluoranthene	MG/KG	0.8	56	2.7	3.0 J	0.73	6.1	0.34
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.31	0.30 J	0.048 J		0.031 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	1.1	0.29 J	0.021 J	0.23 J	
Chrysene	MG/KG	1	56	2.1	5.0	2.6	25	0.41
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	2.4 J	0.50 J	0.19 J	1.2 J	0.15 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Only Detected Results Reported.

TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-05	MW-05	MW-05	MW-05	MW-06
Sample ID				MW-05-(3-3.5)	MW-05-(4.5-5)	MW-05-(15-16)	MW-05-(20.5-21)	MW-06-(4-4.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-3.5	4.5-5.0	15.0-16.0	20.5-21.0	4.0-4.5
Date Sampled				04/26/10	04/26/10	04/30/10	04/30/10	05/05/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Dibenzofuran	MG/KG	7	350	0.41	0.42 J	0.19 J	3.0	
Di-n-butylphthalate	MG/KG	0.014 CP-51	-	0.039 J				
Fluoranthene	MG/KG	100	500	31	7.3	4.9 J	26 J	0.31
Fluorene	MG/KG	30	500	1.2	3.4	4.2 J	31 J	0.020 J
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	8.8	1.9 J	0.45 J	3.2 J	0.45
Naphthalene	MG/KG	12	500	0.31	32	30 J	540	0.20
Phenanthrene	MG/KG	100	500	13	11	14 J	90 J	0.10 J
Phenol	MG/KG	0.33	500			0.050 J		
Pyrene	MG/KG	100	500	30	11	7.1 J	51 J	0.39
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	143.68	113.1	100.14	1,118	4.714
Total Semivolatile Organic Compounds	MG/KG	-	-	145.727	114.99	101.88	1,152.11	4.745
Metals								
Aluminum	MG/KG	10000 CP-51	-	9,270	16,500	10,500	6,810	13,000
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	12.4	3.9	2.5	0.66 J	3.6 J
Barium	MG/KG	350	400	120	75.1	54.9	150	71.9 J
Beryllium	MG/KG	7.2	590	0.24 J				0.38 J
Cadmium	MG/KG	2.5	9.3	0.41	0.42	0.23	0.26	0.23
Calcium	MG/KG	10000 CP-51	-	3,190 J	1,650 J	2,280 J	2,240 J	1,230
Chromium	MG/KG	30	1500	24.2	51.5	34.7	25.5	28.8

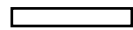
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Concentration Exceeds Criteria (1)



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Only Detected Results Reported.

TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-05	MW-05	MW-05	MW-05	MW-06
Sample ID				MW-05-(3-3.5)	MW-05-(4.5-5)	MW-05-(15-16)	MW-05-(20.5-21)	MW-06-(4-4.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-3.5	4.5-5.0	15.0-16.0	20.5-21.0	4.0-4.5
Date Sampled				04/26/10	04/26/10	04/30/10	04/30/10	05/05/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Cobalt	MG/KG	20 CP-51	-	6.8	18.1	15.6	14.1	6.9 J
Copper	MG/KG	50	270	83.5	425	33.5	34.3	22.2
Iron	MG/KG	2000 CP-51	-	28,700	19,000	18,500	21,300	20,300
Lead	MG/KG	63	1000	250	48.1	39.4	8.9	28.2 J
Magnesium	MG/KG	-	-	3,840	4,980	4,600	4,210	4,080 J
Manganese	MG/KG	1600	10000	163	122	140	737	145 J
Mercury	MG/KG	0.18	2.8	0.38	0.070			
Nickel	MG/KG	30	310	18.0	39.5	36.6	28.1	16.9 J
Potassium	MG/KG	-	-	2,360	2,710	2,520 J	3,080 J	2,080 J
Selenium	MG/KG	3.9	1500	2.3	2.7	2.0	2.4	
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	222	154	155	191	254 J
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	45.2	55.5	40.0	28.8	36.5 J
Zinc	MG/KG	109	10000	93.8 J	278 J	218 J	41.0 J	57.7 J

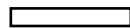
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Concentration Exceeds Criteria (1)



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D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.


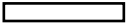
TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-06	SB-07	SB-07	SB-07	SB-07
Sample ID				MW-06-(10.5-11)	SB-07-(3-4)	SB-07-(4.5-5.5)	SB-07-(13.3-14.2)	SB-07-(16-17)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.5-11.0	3.0-4.0	4.5-5.5	13.3-14.2	16.0-17.0
Date Sampled				05/12/10	04/14/10	04/14/10	04/20/10	04/20/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	500				0.0091 J	0.031
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.089 J	0.0058 J			
Benzene	MG/KG	0.06	44	0.041	0.0015 J	0.048	0.84	0.84
Carbon disulfide	MG/KG	2.7 CP-51	-					
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390	21		0.026	2.1	0.15
Isopropylbenzene	MG/KG	2.3 CP-51	-	0.38 J			0.014 J	
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-	1.7 J			2.6	0.33
Tetrachloroethene	MG/KG	1.3	150		0.013			
Toluene	MG/KG	0.7	500	0.94 J	0.0012 J		0.68	0.62
Xylene (total)	MG/KG	0.26	500	52		0.050 J	6.5	0.54 J
Total BTEX	MG/KG	-	-	73.981	0.0027	0.124	10.12	2.15
Total Volatile Organic Compounds	MG/KG	-	-	76.15	0.0215	0.124	12.7431	2.511
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	15	0.25 J	0.33 J	3.5 J	0.052 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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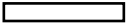
TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-06	SB-07	SB-07	SB-07	SB-07
Sample ID				MW-06-(10.5-11)	SB-07-(3-4)	SB-07-(4.5-5.5)	SB-07-(13.3-14.2)	SB-07-(16-17)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.5-11.0	3.0-4.0	4.5-5.5	13.3-14.2	16.0-17.0
Date Sampled				05/12/10	04/14/10	04/14/10	04/20/10	04/20/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	160	2.2 J	0.21 J	31 J	0.41 J
2-Methylphenol (o-cresol)	MG/KG	0.33	500				0.077 J	
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500				0.049 J	
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	17 J	3.2 J	6.4	2.6 J	0.023 J
Acenaphthylene	MG/KG	100	500	20 J	38	6.0	18	0.19 J
Acetophenone	MG/KG	-	-		0.35 J			
Anthracene	MG/KG	100	500	12	16 J	21	10	0.39
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	13	70	15	9.4	0.17 J
Benzo(a)pyrene	MG/KG	1	1	9.4 J	66	12	5.7 J	0.076 J
Benzo(b)fluoranthene	MG/KG	1	5.6	10 J	91	12	5.7 J	0.071 J
Benzo(g,h,i)perylene	MG/KG	100	500	3.8	64	8.1	3.2 J	0.068 J
Benzo(k)fluoranthene	MG/KG	0.8	56	4.0	27	3.7	2.0	0.037 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-					0.033 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	0.42 J	3.2 J	7.3	9.7	1.2
Chrysene	MG/KG	1	56	13 J	65	12	7.8	0.13 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	1.2 J	11 J	2.8 J	1.2	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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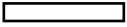
TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-06	SB-07	SB-07	SB-07	SB-07
Sample ID				MW-06-(10.5-11)	SB-07-(3-4)	SB-07-(4.5-5.5)	SB-07-(13.3-14.2)	SB-07-(16-17)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.5-11.0	3.0-4.0	4.5-5.5	13.3-14.2	16.0-17.0
Date Sampled				05/12/10	04/14/10	04/14/10	04/20/10	04/20/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Dibenzofuran	MG/KG	7	350	2.6	2.7 J	9.2	6.9 J	0.084 J
Di-n-butylphthalate	MG/KG	0.014 CP-51	-		0.073 J			
Fluoranthene	MG/KG	100	500	20 J	160	49	23	0.37
Fluorene	MG/KG	30	500	27 J	5.8 J	15	14	0.52
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	3.0 J	44	6.2	2.9	0.047 J
Naphthalene	MG/KG	12	500	370	4.0 J	7.7	71	2.1
Phenanthrene	MG/KG	100	500	73	55	51	41	0.64
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	43	140	36	20	0.32
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	799.4	862.2	264.11	268.5	5.562
Total Semivolatile Organic Compounds	MG/KG	-	-	817.42	868.773	280.94	288.726	6.931
Metals								
Aluminum	MG/KG	10000 CP-51	-	12,600	11,700 J	9,250 J	6,280	6,970
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16		8.1	1.8	0.21 J	0.38 J
Barium	MG/KG	350	400	116	212 J	46.8 J	57.6 J	86.4 J
Beryllium	MG/KG	7.2	590		0.93 J	0.66 J	0.89 J	0.91 J
Cadmium	MG/KG	2.5	9.3	0.30	3.0	0.22 J	0.10 J	0.21
Calcium	MG/KG	10000 CP-51	-	1,110	60,700 J	3,090 J	1,390	4,220
Chromium	MG/KG	30	1500	75.7	29.4 J	16.8 J	18.0 J	30.8 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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Only Detected Results Reported.


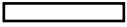
TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-06	SB-07	SB-07	SB-07	SB-07
Sample ID				MW-06-(10.5-11)	SB-07-(3-4)	SB-07-(4.5-5.5)	SB-07-(13.3-14.2)	SB-07-(16-17)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.5-11.0	3.0-4.0	4.5-5.5	13.3-14.2	16.0-17.0
Date Sampled				05/12/10	04/14/10	04/14/10	04/20/10	04/20/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Cobalt	MG/KG	20 CP-51	-	8.8	6.4 J	6.9 J	7.4 J	10.1 J
Copper	MG/KG	50	270	27.4	101 J	12.0 J	18.5	28.9
Iron	MG/KG	2000 CP-51	-	29,700	26,200	20,700	17,100	20,100
Lead	MG/KG	63	1000	5.3	265 J	12.6 J	3.1	6.5
Magnesium	MG/KG	-	-	8,120	7,430 J	3,050 J	3,620 J	5,520 J
Manganese	MG/KG	1600	10000	187	388 J	325 J	140 J	235 J
Mercury	MG/KG	0.18	2.8		4.2 J	0.052 J		
Nickel	MG/KG	30	310	41.1	22.7 J	12.3 J	16.7 J	28.9 J
Potassium	MG/KG	-	-	5,280	1,910 J	1,000 J	2,300	3,000
Selenium	MG/KG	3.9	1500	2.2	2.2	4.0	2.9	3.4
Silver	MG/KG	2	1500		0.17 J	0.11 J		
Sodium	MG/KG	-	-	178	574 J	173 J	179 J	179 J
Thallium	MG/KG	5 CP-51	-		1.6	1.7		
Vanadium	MG/KG	39 CP-51	-	66.1	30.3 J	18.1 J	22.4	33.3
Zinc	MG/KG	109	10000	51.7	165 J	33.2 J	34.4 J	36.5 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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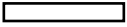
TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-08	SB-08	SB-08	SB-08	SB-10
Sample ID				SB-08-(3-3.5)	SB-08-(5-6)	SB-08-(7-7.5)	SB-08-(10.5-11)	20100426-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-3.5	5.0-6.0	7.0-7.5	10.5-11.0	3.0-4.0
Date Sampled				04/28/10	04/28/10	04/29/10	04/29/10	04/26/10
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.0092 J	0.076 J	0.22 J	0.22 J	0.0084 J
Benzene	MG/KG	0.06	44				0.33 J	
Carbon disulfide	MG/KG	2.7 CP-51	-				0.0073 J	
Chloroform	MG/KG	0.37	350			0.020 J	0.028 J	
Cyclohexane	MG/KG	-	-			0.098 J	0.35 J	
Ethylbenzene	MG/KG	1	390				2.6	
Isopropylbenzene	MG/KG	2.3 CP-51	-				2.5 J	
Methylcyclohexane	MG/KG	-	-			0.21 J	0.55 J	
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500				0.043 J	
Xylene (total)	MG/KG	0.26	500			0.017 J	2.9 J	
Total BTEX	MG/KG	-	-	ND	ND	0.017	5.873	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.0092	0.076	0.565	9.5283	0.0084
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	0.055 J			4.8	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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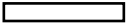
TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-08	SB-08	SB-08	SB-08	SB-10
Sample ID				SB-08-(3-3.5)	SB-08-(5-6)	SB-08-(7-7.5)	SB-08-(10.5-11)	20100426-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-3.5	5.0-6.0	7.0-7.5	10.5-11.0	3.0-4.0
Date Sampled				04/28/10	04/28/10	04/29/10	04/29/10	04/26/10
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Semivolatile Organic Compounds								
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.22	0.27 J		28	
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	0.38	1.8	0.70	26	
Acenaphthylene	MG/KG	100	500	3.0	1.7	0.16 J	7.5	
Acetophenone	MG/KG	-	-	0.072 J	0.21 J			
Anthracene	MG/KG	100	500	2.5	1.0	0.52 J	15	
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	7.1	2.4	0.61	13	0.056 J
Benzo(a)pyrene	MG/KG	1	1	4.9	1.5 J	0.32 J	13 J	0.031 J
Benzo(b)fluoranthene	MG/KG	1	5.6	6.2	2.4 J	0.23 J	8.5 J	0.039 J
Benzo(g,h,i)perylene	MG/KG	100	500	1.7 J	0.97	0.10 J	3.3	0.023 J
Benzo(k)fluoranthene	MG/KG	0.8	56	3.0 J	1.1	0.12 J	3.4	0.021 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.43		0.088 J		0.097 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	0.17 J				
Chrysene	MG/KG	1	56	8.0	3.1	0.53	12	0.043 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.93 J	0.32 J	0.026 J	0.99 J	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Only Detected Results Reported.

TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-08	SB-08	SB-08	SB-08	SB-10
Sample ID				SB-08-(3-3.5)	SB-08-(5-6)	SB-08-(7-7.5)	SB-08-(10.5-11)	20100426-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-3.5	5.0-6.0	7.0-7.5	10.5-11.0	3.0-4.0
Date Sampled				04/28/10	04/28/10	04/29/10	04/29/10	04/26/10
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Semivolatile Organic Compounds								
Dibenzofuran	MG/KG	7	350	0.16 J	0.31 J	0.12 J	0.52 J	
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Fluoranthene	MG/KG	100	500	28	3.5	0.50 J	18	0.080 J
Fluorene	MG/KG	30	500	0.54	2.7	0.65	15	
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	1.7 J	0.77 J	0.072 J	2.4 J	
Naphthalene	MG/KG	12	500	0.17 J	0.44	0.11 J	74	
Phenanthrene	MG/KG	100	500	5.4	0.55	0.53 J	55	0.041 J
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	15	8.4 J	1.9	30	0.073 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	88.74	32.92	7.078	325.09	0.407
Total Semivolatile Organic Compounds	MG/KG	-	-	89.627	33.44	7.286	330.41	0.504
Metals								
Aluminum	MG/KG	10000 CP-51	-	8,070	9,650	12,400	11,400	14,600 J
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	4.4	7.7	1.6	0.43 J	0.46 J
Barium	MG/KG	350	400	61.9	65.4	35.5	105	96.8
Beryllium	MG/KG	7.2	590	0.18 J	0.33 J	0.42 J		0.26 J
Cadmium	MG/KG	2.5	9.3	0.14 J	0.46	0.055 J	0.13 J	0.27
Calcium	MG/KG	10000 CP-51	-	58,400 J	925 J	516 J	1,090 J	653 J
Chromium	MG/KG	30	1500	19.2	17.3	23.6	32.3	47.9 J

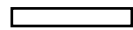
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TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-08	SB-08	SB-08	SB-08	SB-10
Sample ID				SB-08-(3-3.5)	SB-08-(5-6)	SB-08-(7-7.5)	SB-08-(10.5-11)	20100426-FD-1
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-3.5	5.0-6.0	7.0-7.5	10.5-11.0	3.0-4.0
Date Sampled				04/28/10	04/28/10	04/29/10	04/29/10	04/26/10
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Metals								
Cobalt	MG/KG	20 CP-51	-	4.1	7.0	5.5	10.5	8.7 J
Copper	MG/KG	50	270	31.1	36.8	22.9	37.0	35.5
Iron	MG/KG	2000 CP-51	-	13,900	27,500	24,700	28,500	33,500
Lead	MG/KG	63	1000	107	74.3	7.5	8.0	8.0 J
Magnesium	MG/KG	-	-	6,150	2,570	3,100	4,700	6,890 J
Manganese	MG/KG	1600	10000	186	120	203	346	204 J
Mercury	MG/KG	0.18	2.8	0.55	0.091			
Nickel	MG/KG	30	310	11.9	25.8	25.0	23.8	27.6 J
Potassium	MG/KG	-	-	1,300 J	1,270 J	1,210 J	3,340 J	3,840 J
Selenium	MG/KG	3.9	1500	2.3	1.9	1.7	2.8	2.3
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	179	125	177	221	121 J
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	20.9	25.4	36.8	41.5	51.0 J
Zinc	MG/KG	109	10000	56.7 J	203 J	49.9 J	88.4 J	79.7 J

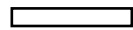
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Only Detected Results Reported.

TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-10	SB-10	SB-10	SB-13	SB-13
Sample ID				SB-10-(3-4)	SB-10-(5-5.5)	SB-10-(11-11.5)	SB-13-(3-4)	SB-13-(15-16)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	5.0-5.5	11.0-11.5	3.0-4.0	15.0-16.0
Date Sampled				04/26/10	04/26/10	04/29/10	04/28/10	04/29/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-		0.0017 J			
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.0044 J	0.0085 J			0.038 J
Benzene	MG/KG	0.06	44			0.024 J		0.0049 J
Carbon disulfide	MG/KG	2.7 CP-51	-			0.0045 J		0.0083 J
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					0.0089 J
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500				0.0059	
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500	0.0021 J				0.0049 J
Xylene (total)	MG/KG	0.26	500					0.018 J
Total BTEX	MG/KG	-	-	0.0021	ND	0.024	ND	0.0367
Total Volatile Organic Compounds	MG/KG	-	-	0.0065	0.0102	0.0285	0.0059	0.083
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-					0.024 J

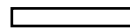
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Concentration Exceeds Criteria (1)



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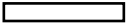
TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-10	SB-10	SB-10	SB-13	SB-13
Sample ID				SB-10-(3-4)	SB-10-(5-5.5)	SB-10-(11-11.5)	SB-13-(3-4)	SB-13-(15-16)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	5.0-5.5	11.0-11.5	3.0-4.0	15.0-16.0
Date Sampled				04/26/10	04/26/10	04/29/10	04/28/10	04/29/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.049 J		0.086 J		0.17 J
2-Methylphenol (o-cresol)	MG/KG	0.33	500	0.028 J				
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500	0.027 J				
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	0.13 J				0.090 J
Acenaphthylene	MG/KG	100	500	0.58				0.11 J
Acetophenone	MG/KG	-	-	0.091 J				
Anthracene	MG/KG	100	500	0.44				0.18 J
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	2.0	0.030 J		0.023 J	0.25
Benzo(a)pyrene	MG/KG	1	1	1.9	0.021 J		0.026 J	0.17 J
Benzo(b)fluoranthene	MG/KG	1	5.6	2.4 J			0.032 J	0.17 J
Benzo(g,h,i)perylene	MG/KG	100	500	1.2			0.024 J	0.084 J
Benzo(k)fluoranthene	MG/KG	0.8	56	1.8 J				0.087 J
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.14 J	0.089 J		0.033 J	2.0
Butylbenzylphthalate	MG/KG	100 CP-51	-					0.027 J
Carbazole	MG/KG	-	-	0.12 J				
Chrysene	MG/KG	1	56	1.6	0.029 J		0.026 J	0.24
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.11 J				0.022 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Only Detected Results Reported.

TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-10	SB-10	SB-10	SB-13	SB-13
Sample ID				SB-10-(3-4)	SB-10-(5-5.5)	SB-10-(11-11.5)	SB-13-(3-4)	SB-13-(15-16)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	5.0-5.5	11.0-11.5	3.0-4.0	15.0-16.0
Date Sampled				04/26/10	04/26/10	04/29/10	04/28/10	04/29/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Dibenzofuran	MG/KG	7	350	0.035 J				0.059 J
Di-n-butylphthalate	MG/KG	0.014 CP-51	-	0.033 J				
Fluoranthene	MG/KG	100	500	2.7	0.037 J			0.53
Fluorene	MG/KG	30	500	0.10 J				0.15 J
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.23 J			0.025 J	0.064 J
Naphthalene	MG/KG	12	500	0.065 J		0.21 J		0.35
Phenanthrene	MG/KG	100	500	1.3	0.021 J			0.65
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	2.3	0.047 J			0.53
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	18.904	0.185	0.296	0.156	3.847
Total Semivolatile Organic Compounds	MG/KG	-	-	19.378	0.274	0.296	0.189	5.957
Metals								
Aluminum	MG/KG	10000 CP-51	-	9,280 J	14,600	19,400 J	15,800	3,870
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	5.3	0.45 J	12.2 J	3.4	0.67 J
Barium	MG/KG	350	400	71.2	102	47.3 J	59.3	31.8
Beryllium	MG/KG	7.2	590			0.89 J	0.46 J	
Cadmium	MG/KG	2.5	9.3	0.17 J	0.22 J	0.32 J	0.29	0.15 J
Calcium	MG/KG	10000 CP-51	-	1,690 J	1,090 J	1,590 J	925 J	31,900 J
Chromium	MG/KG	30	1500	22.4 J	50.7	37.4 J	29.7	11.4

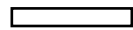
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-10	SB-10	SB-10	SB-13	SB-13
Sample ID				SB-10-(3-4)	SB-10-(5-5.5)	SB-10-(11-11.5)	SB-13-(3-4)	SB-13-(15-16)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	5.0-5.5	11.0-11.5	3.0-4.0	15.0-16.0
Date Sampled				04/26/10	04/26/10	04/29/10	04/28/10	04/29/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Cobalt	MG/KG	20 CP-51	-	5.3 J	8.7	13.8 J	7.1	2.2 J
Copper	MG/KG	50	270	32.9	34.6	18.0 J	20.6	27.8
Iron	MG/KG	2000 CP-51	-	25,000	33,200	53,100 J	29,800	6,690
Lead	MG/KG	63	1000	116 J	7.8	17.6 J	17.5	156
Magnesium	MG/KG	-	-	3,410 J	7,320	8,910 J	3,590	4,180
Manganese	MG/KG	1600	10000	109 J	197	750 J	135	135
Mercury	MG/KG	0.18	2.8					0.37
Nickel	MG/KG	30	310	14.1 J	29.7	32.0 J	20.7	13.0
Potassium	MG/KG	-	-	1,700 J	3,820	4,230 J	1,480	548 J
Selenium	MG/KG	3.9	1500	1.5 J	2.8	1.9 J	1.6	1.4 J
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	207 J	164	1,550 J	991	473
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	30.0 J	51.7	54.5 J	36.1	9.1
Zinc	MG/KG	109	10000	51.6 J	76.0 J	95.2 J	49.0 J	78.3 J

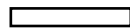
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-14	SB-14	SB-14	SB-15	SB-15
Sample ID				SB-14-(3.5-4)	SB-14-(4.5-5)	SB-14-(14.5-15)	SB-15-(3-3.5)	SB-15-(6-6.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.0	4.5-5.0	14.5-15.0	3.0-3.5	6.0-6.5
Date Sampled				04/28/10	04/28/10	04/29/10	05/04/10	05/04/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500	0.012 J	0.041 J	0.0081 J		0.041 J
Benzene	MG/KG	0.06	44					0.13
Carbon disulfide	MG/KG	2.7 CP-51	-					0.0071 J
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390					0.36
Isopropylbenzene	MG/KG	2.3 CP-51	-					0.072 J
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-					
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500					0.32
Xylene (total)	MG/KG	0.26	500					2.9
Total BTEX	MG/KG	-	-	ND	ND	ND	ND	3.71
Total Volatile Organic Compounds	MG/KG	-	-	0.012	0.041	0.0081	ND	3.8301
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-				30 J	4.9 J

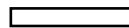
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TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-14	SB-14	SB-14	SB-15	SB-15
Sample ID				SB-14-(3.5-4)	SB-14-(4.5-5)	SB-14-(14.5-15)	SB-15-(3-3.5)	SB-15-(6-6.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.0	4.5-5.0	14.5-15.0	3.0-3.5	6.0-6.5
Date Sampled				04/28/10	04/28/10	04/29/10	05/04/10	05/04/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-			0.092 J	170 J	31
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500			0.062 J	110 J	1.6
Acenaphthylene	MG/KG	100	500	0.079 J		0.068 J	60 J	14 J
Acetophenone	MG/KG	-	-				0.56 J	
Anthracene	MG/KG	100	500	0.026 J		0.044 J	56 J	4.2 J
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	0.047 J	0.046 J	0.18 J	63 J	4.5 J
Benzo(a)pyrene	MG/KG	1	1	0.038 J	0.037 J	0.20 J	46 J	1.9 J
Benzo(b)fluoranthene	MG/KG	1	5.6	0.053 J	0.039 J	0.23 J	50 J	3.5 J
Benzo(g,h,i)perylene	MG/KG	100	500			0.19 J	23 J	1.4
Benzo(k)fluoranthene	MG/KG	0.8	56	0.027 J	0.025 J	0.12 J	21 J	2.1
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.091 J	0.29	0.061 J	0.29 J	
Butylbenzylphthalate	MG/KG	100 CP-51	-				0.16 J	
Carbazole	MG/KG	-	-				7.5	0.32
Chrysene	MG/KG	1	56	0.053 J	0.059 J	0.20 J	50 J	4.4 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56			0.034 J	5.4	0.45 J

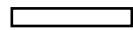
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TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-14	SB-14	SB-14	SB-15	SB-15
Sample ID				SB-14-(3.5-4)	SB-14-(4.5-5)	SB-14-(14.5-15)	SB-15-(3-3.5)	SB-15-(6-6.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.0	4.5-5.0	14.5-15.0	3.0-3.5	6.0-6.5
Date Sampled				04/28/10	04/28/10	04/29/10	05/04/10	05/04/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Dibenzofuran	MG/KG	7	350				96 J	1.3
Di-n-butylphthalate	MG/KG	0.014 CP-51	-					
Fluoranthene	MG/KG	100	500	0.057 J	0.088 J	0.24	180 J	6.0 J
Fluorene	MG/KG	30	500				73 J	7.0 J
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6			0.15 J	22 J	1.0
Naphthalene	MG/KG	12	500			0.33	770	100
Phenanthrene	MG/KG	100	500	0.041 J	0.068 J	0.086 J	280 J	20
Phenol	MG/KG	0.33	500					
Pyrene	MG/KG	100	500	0.068 J	0.11 J	0.35	180 J	11 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	0.489	0.472	2.576	2,159.4	214.05
Total Semivolatile Organic Compounds	MG/KG	-	-	0.58	0.762	2.637	2,293.91	220.57
Metals								
Aluminum	MG/KG	10000 CP-51	-	13,100	12,600	11,500	12,200	19,400
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	2.8	2.5	1.5	5.6 J	1.0 J
Barium	MG/KG	350	400	58.5	63.7	63.8	136 J	147 J
Beryllium	MG/KG	7.2	590	0.35 J	0.56 J	0.39 J		
Cadmium	MG/KG	2.5	9.3	0.16 J	0.14 J	0.19	0.55	0.55
Calcium	MG/KG	10000 CP-51	-	1,190 J	1,300 J	3,930 J	1,700	1,960
Chromium	MG/KG	30	1500	24.7	20.4	19.9	34.4 J	46.7 J

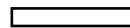
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-14	SB-14	SB-14	SB-15	SB-15
Sample ID				SB-14-(3.5-4)	SB-14-(4.5-5)	SB-14-(14.5-15)	SB-15-(3-3.5)	SB-15-(6-6.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.0	4.5-5.0	14.5-15.0	3.0-3.5	6.0-6.5
Date Sampled				04/28/10	04/28/10	04/29/10	05/04/10	05/04/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Cobalt	MG/KG	20 CP-51	-	8.3	8.0	8.2	9.1 J	20.9 J
Copper	MG/KG	50	270	28.0	17.7	32.0	85.7	26.6
Iron	MG/KG	2000 CP-51	-	26,300	23,500	23,000	41,800	22,600
Lead	MG/KG	63	1000	65.8	23.4	45.5	230 J	4.0 J
Magnesium	MG/KG	-	-	4,120	3,130	3,590	4,670 J	7,580 J
Manganese	MG/KG	1600	10000	256	267	463	153 J	1,230 J
Mercury	MG/KG	0.18	2.8	0.050	0.036 J	0.067	1.3 J	
Nickel	MG/KG	30	310	16.9	14.8	15.3	20.7 J	28.0 J
Potassium	MG/KG	-	-	1,510 J	950 J	1,320 J	2,630 J	10,900 J
Selenium	MG/KG	3.9	1500	1.9	1.5	1.4		
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	148	175	750	195	259
Thallium	MG/KG	5 CP-51	-					1.6
Vanadium	MG/KG	39 CP-51	-	35.3	29.4	30.7	43.8 J	61.9 J
Zinc	MG/KG	109	10000	72.4 J	43.8 J	68.3 J	96.1 J	84.7 J

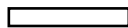
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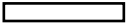
TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-15	SB-16	SB-16	SB-16	SB-16
Sample ID				SB-15-(22-23)	SB-16-(3.5-4)	SB-16-(6-6.5)	SB-16-(9-10)	SB-16-(17.5-18)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-23.0	3.5-4.0	6.0-6.5	9.0-10.0	17.5-18.0
Date Sampled				05/04/10	05/05/10	05/05/10	05/05/10	05/05/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500		0.0089 J		0.011 J	
Benzene	MG/KG	0.06	44	1.6		0.45 J		3.1
Carbon disulfide	MG/KG	2.7 CP-51	-					
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-					
Ethylbenzene	MG/KG	1	390	22		22		19
Isopropylbenzene	MG/KG	2.3 CP-51	-	0.31 J		0.49 J		1.4 J
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-	3.5				
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500	0.79	0.0012 J	0.54 J		0.41 J
Xylene (total)	MG/KG	0.26	500	35		0.59 J		18
Total BTEX	MG/KG	-	-	59.39	0.0012	23.58	ND	40.51
Total Volatile Organic Compounds	MG/KG	-	-	63.2	0.0101	24.07	0.011	41.91
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	0.12 J	0.074 J	0.10 J		2.7

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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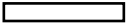
TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-15	SB-16	SB-16	SB-16	SB-16
Sample ID				SB-15-(22-23)	SB-16-(3.5-4)	SB-16-(6-6.5)	SB-16-(9-10)	SB-16-(17.5-18)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-23.0	3.5-4.0	6.0-6.5	9.0-10.0	17.5-18.0
Date Sampled				05/04/10	05/05/10	05/05/10	05/05/10	05/05/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.63	0.40	0.60		9.0
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500					
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	0.16 J	0.16 J	1.2	0.027 J	6.6
Acenaphthylene	MG/KG	100	500	1.1	1.2	3.1		2.6 J
Acetophenone	MG/KG	-	-	0.12 J	0.085 J			
Anthracene	MG/KG	100	500	0.68	0.74	2.7		3.3 J
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	1.4	1.5	6.1		2.8 J
Benzo(a)pyrene	MG/KG	1	1	1.6	2.0 J	3.0		2.9 J
Benzo(b)fluoranthene	MG/KG	1	5.6	1.9 J	1.9 J	3.5 J		1.7 J
Benzo(g,h,i)perylene	MG/KG	100	500	1.6	2.0	1.5		0.81
Benzo(k)fluoranthene	MG/KG	0.8	56	1.7	2.2	2.8		1.1
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-		0.19 J	0.25	0.037 J	0.11 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	0.054 J	0.058 J	0.13 J		0.096 J
Chrysene	MG/KG	1	56	1.8	1.8	6.7		2.6 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.45 J	0.54 J	0.55 J		0.25 J

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-15	SB-16	SB-16	SB-16	SB-16
Sample ID				SB-15-(22-23)	SB-16-(3.5-4)	SB-16-(6-6.5)	SB-16-(9-10)	SB-16-(17.5-18)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-23.0	3.5-4.0	6.0-6.5	9.0-10.0	17.5-18.0
Date Sampled				05/04/10	05/05/10	05/05/10	05/05/10	05/05/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Dibenzofuran	MG/KG	7	350	0.12 J	0.095 J	0.14 J		0.38
Di-n-butylphthalate	MG/KG	0.014 CP-51	-	0.037 J	0.037 J			
Fluoranthene	MG/KG	100	500	2.8	2.7	11		4.2
Fluorene	MG/KG	30	500	0.57	0.42	1.2		4.6
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	1.2	1.4 J	1.3		0.60 J
Naphthalene	MG/KG	12	500	0.38	0.23	0.30		22
Phenanthrene	MG/KG	100	500	3.8	2.9	8.1		14
Phenol	MG/KG	0.33	500					0.099 J
Pyrene	MG/KG	100	500	3.8	3.4	18		7.8
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	25.57	25.49	71.65	0.027	86.86
Total Semivolatile Organic Compounds	MG/KG	-	-	26.021	26.029	72.27	0.064	90.245
Metals								
Aluminum	MG/KG	10000 CP-51	-	5,620	9,070	10,300	15,000	9,300
Antimony	MG/KG	12 CP-51	-			0.64 J		
Arsenic	MG/KG	13	16	1.7 J	5.7 J	16.6 J	4.3 J	1.2 J
Barium	MG/KG	350	400	48.8 J	111 J	73.9 J	75.7 J	87.6 J
Beryllium	MG/KG	7.2	590	0.30 J	0.37 J	0.33 J	0.43 J	0.16 J
Cadmium	MG/KG	2.5	9.3	0.25	0.92	2.6	0.17 J	0.19 J
Calcium	MG/KG	10000 CP-51	-	1,030	17,000	5,840	953	1,130
Chromium	MG/KG	30	1500	24.2 J	24.3 J	25.1 J	19.8 J	34.8 J

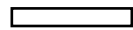
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Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-15	SB-16	SB-16	SB-16	SB-16
Sample ID				SB-15-(22-23)	SB-16-(3.5-4)	SB-16-(6-6.5)	SB-16-(9-10)	SB-16-(17.5-18)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-23.0	3.5-4.0	6.0-6.5	9.0-10.0	17.5-18.0
Date Sampled				05/04/10	05/05/10	05/05/10	05/05/10	05/05/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Cobalt	MG/KG	20 CP-51	-	8.2 J	9.3 J	9.3 J	7.2 J	11.3 J
Copper	MG/KG	50	270	25.8	54.2	53.1	15.6	26.5
Iron	MG/KG	2000 CP-51	-	16,700	24,900	113,000	21,300 J	25,000
Lead	MG/KG	63	1000	5.0 J	91.9 J	66.6 J	9.0 J	7.5 J
Magnesium	MG/KG	-	-	2,990 J	5,240 J	4,260 J	3,460 J	4,870 J
Manganese	MG/KG	1600	10000	164 J	226 J	406 J	156 J	261 J
Mercury	MG/KG	0.18	2.8		2.1 J	0.70 J	0.0073 J	
Nickel	MG/KG	30	310	17.7 J	22.5 J	19.7 J	14.9 J	25.1 J
Potassium	MG/KG	-	-	2,340 J	2,010 J	2,090 J	923 J	4,550 J
Selenium	MG/KG	3.9	1500					
Silver	MG/KG	2	1500					
Sodium	MG/KG	-	-	224	302	165	201	128
Thallium	MG/KG	5 CP-51	-		0.52 J			
Vanadium	MG/KG	39 CP-51	-	30.8 J	29.9 J	36.2 J	29.7 J	37.5 J
Zinc	MG/KG	109	10000	35.5 J	113 J	134 J	41.5 J	43.5 J

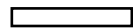
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Concentration Exceeds Criteria (1)



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TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-17	SB-17	SB-17	SB-41	SB-41
Sample ID				SB-17-(3-3.5)	SB-17-(5.5-6)	SB-17-(12-12.5)	SB-41 (0.5-1.0)	SB-41 (7-9)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-3.5	5.5-6.0	12.0-12.5	0.5-1.0	7.0-9.0
Date Sampled				05/11/10	05/11/10	05/12/10	02/18/14	02/18/14
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-					
1,2-Dichloroethene (cis)	MG/KG	0.25	500					
2-Butanone	MG/KG	0.12	500					
Acetone	MG/KG	0.05	500		0.040 J	0.12 J		0.0054 J
Benzene	MG/KG	0.06	44		0.025	5.7 J		0.0024 J
Carbon disulfide	MG/KG	2.7 CP-51	-		0.022			
Chloroform	MG/KG	0.37	350					
Cyclohexane	MG/KG	-	-			0.038 J		
Ethylbenzene	MG/KG	1	390		1.7	11		
Isopropylbenzene	MG/KG	2.3 CP-51	-		0.074 J	0.33 J		
Methylcyclohexane	MG/KG	-	-			0.14 J		
Methylene chloride	MG/KG	0.05	500					
Styrene	MG/KG	300 CP-51	-			15		
Tetrachloroethene	MG/KG	1.3	150					
Toluene	MG/KG	0.7	500		0.19 J	12		
Xylene (total)	MG/KG	0.26	500		2.6 J	66	0.0092 J	
Total BTEX	MG/KG	-	-	ND	4.515	94.7	0.0092	0.0024
Total Volatile Organic Compounds	MG/KG	-	-	ND	4.651	110.328	0.0092	0.0078
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	0.15 J	0.60			NA

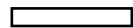
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Concentration Exceeds Criteria (1)



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TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-17	SB-17	SB-17	SB-41	SB-41
Sample ID				SB-17-(3-3.5)	SB-17-(5.5-6)	SB-17-(12-12.5)	SB-41 (0.5-1.0)	SB-41 (7-9)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-3.5	5.5-6.0	12.0-12.5	0.5-1.0	7.0-9.0
Date Sampled				05/11/10	05/11/10	05/12/10	02/18/14	02/18/14
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					NA
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	1.8 J	1.3	670	0.075 J	NA
2-Methylphenol (o-cresol)	MG/KG	0.33	500					NA
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500	0.048 J				NA
3,3'-Dichlorobenzidine	MG/KG	-	-					NA
Acenaphthene	MG/KG	20	500	0.31 J	2.7	33 J		NA
Acenaphthylene	MG/KG	100	500	4.6	3.1	180 J	0.59	NA
Acetophenone	MG/KG	-	-				0.064 J	NA
Anthracene	MG/KG	100	500	4.0	6.8	64 J	0.21 J	NA
Benzaldehyde	MG/KG	-	-					NA
Benzo(a)anthracene	MG/KG	1	5.6	22	4.1	79 J	0.65	NA
Benzo(a)pyrene	MG/KG	1	1	24	2.7	41 J	0.74	NA
Benzo(b)fluoranthene	MG/KG	1	5.6	26 J	2.7 J		1.1	NA
Benzo(g,h,i)perylene	MG/KG	100	500	14	1.4		0.85	NA
Benzo(k)fluoranthene	MG/KG	0.8	56	13 J	1.4 J		0.48	NA
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.10 J	0.020 J			NA
Butylbenzylphthalate	MG/KG	100 CP-51	-				0.043 J	NA
Carbazole	MG/KG	-	-	0.38 J	7.1		0.071 J	NA
Chrysene	MG/KG	1	56	22	4.2	73 J	0.86	NA
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	3.4 J	0.57		0.17 J	NA

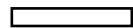
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TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-17	SB-17	SB-17	SB-41	SB-41
Sample ID				SB-17-(3-3.5)	SB-17-(5.5-6)	SB-17-(12-12.5)	SB-41 (0.5-1.0)	SB-41 (7-9)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-3.5	5.5-6.0	12.0-12.5	0.5-1.0	7.0-9.0
Date Sampled				05/11/10	05/11/10	05/12/10	02/18/14	02/18/14
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Dibenzofuran	MG/KG	7	350	0.40 J	2.6			NA
Di-n-butylphthalate	MG/KG	0.014 CP-51	-				0.26 J	NA
Fluoranthene	MG/KG	100	500	47	8.3	120 J	0.83	NA
Fluorene	MG/KG	30	500	1.4 J	3.4	120 J		NA
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	12 J	1.3		0.82	NA
Naphthalene	MG/KG	12	500	1.8 J	16	1,800	0.090 J	NA
Phenanthrene	MG/KG	100	500	10	7.9	380	0.34 J	NA
Phenol	MG/KG	0.33	500					NA
Pyrene	MG/KG	100	500	59	13	230 J	1.0	NA
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	266.31	80.87	3,790	8.805	NA
Total Semivolatile Organic Compounds	MG/KG	-	-	267.388	91.19	3,790	9.243	NA
Metals								
Aluminum	MG/KG	10000 CP-51	-	4,990	11,100	9,170	2,840	NA
Antimony	MG/KG	12 CP-51	-				0.53 J	NA
Arsenic	MG/KG	13	16	3.5	0.77		6.2	NA
Barium	MG/KG	350	400	50.1	48.4	202	88.1	NA
Beryllium	MG/KG	7.2	590	0.071 J	0.17		0.28	NA
Cadmium	MG/KG	2.5	9.3	0.20 J	0.23	0.22	0.28	NA
Calcium	MG/KG	10000 CP-51	-	808	1,630	1,040	21,800	NA
Chromium	MG/KG	30	1500	9.6	19.7	39.0	6.2	NA

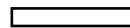
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TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-17	SB-17	SB-17	SB-41	SB-41
Sample ID				SB-17-(3-3.5)	SB-17-(5.5-6)	SB-17-(12-12.5)	SB-41 (0.5-1.0)	SB-41 (7-9)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-3.5	5.5-6.0	12.0-12.5	0.5-1.0	7.0-9.0
Date Sampled				05/11/10	05/11/10	05/12/10	02/18/14	02/18/14
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Cobalt	MG/KG	20 CP-51	-	4.7	5.4	8.6	22.2	NA
Copper	MG/KG	50	270	14.7	19.2	30.0	34.3	NA
Iron	MG/KG	2000 CP-51	-	11,100	26,300	25,000	6,550	NA
Lead	MG/KG	63	1000	53.1	7.5	4.0	154	NA
Magnesium	MG/KG	-	-	1,320	3,440	5,140	1,940	NA
Manganese	MG/KG	1600	10000	64.9	265	135	57.0	NA
Mercury	MG/KG	0.18	2.8	0.27	0.24		0.20	NA
Nickel	MG/KG	30	310	15.4	13.6	40.4	9.8	NA
Potassium	MG/KG	-	-	503	1,500	3,050	600	NA
Selenium	MG/KG	3.9	1500	1.3 J	1.4	1.8	0.61 J	NA
Silver	MG/KG	2	1500					NA
Sodium	MG/KG	-	-	338	572	100	937	NA
Thallium	MG/KG	5 CP-51	-				0.34 J	NA
Vanadium	MG/KG	39 CP-51	-	12.8	26.4	36.6	12.3	NA
Zinc	MG/KG	109	10000	78.5	36.9	43.1	116	NA

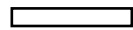
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TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-41	SB-42	SB-42	SB-42	SB-43
Sample ID				SB-41 (9-11)	DUP021914	SB-42 (0.5-1.0)	SB-42 (18.5-19.5)	SB-43 (1-2)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				9.0-11.0	0.5-1.0	0.5-1.0	18.5-19.5	1.0-2.0
Date Sampled				02/18/14	02/19/14	02/19/14	02/21/14	02/19/14
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Volatile Organic Compounds								
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-	NA				
1,2-Dichloroethene (cis)	MG/KG	0.25	500	NA				
2-Butanone	MG/KG	0.12	500	NA				
Acetone	MG/KG	0.05	500	NA	0.0065 J	0.012 J		
Benzene	MG/KG	0.06	44	NA			2.5	0.0014 J
Carbon disulfide	MG/KG	2.7 CP-51	-	NA				
Chloroform	MG/KG	0.37	350	NA				
Cyclohexane	MG/KG	-	-	NA				
Ethylbenzene	MG/KG	1	390	NA			8.2	
Isopropylbenzene	MG/KG	2.3 CP-51	-	NA			1.0	
Methylcyclohexane	MG/KG	-	-	NA				
Methylene chloride	MG/KG	0.05	500	NA				0.0031 J
Styrene	MG/KG	300 CP-51	-	NA			5.0	
Tetrachloroethene	MG/KG	1.3	150	NA				
Toluene	MG/KG	0.7	500	NA			5.8	
Xylene (total)	MG/KG	0.26	500	NA			17	
Total BTEX	MG/KG	-	-	NA	ND	ND	33.5	0.0014
Total Volatile Organic Compounds	MG/KG	-	-	NA	0.0065	0.012	39.5	0.0045
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	0.078 J	0.47	0.42	17 J	0.040 J

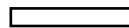
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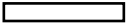
TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-41	SB-42	SB-42	SB-42	SB-43
Sample ID				SB-41 (9-11)	DUP021914	SB-42 (0.5-1.0)	SB-42 (18.5-19.5)	SB-43 (1-2)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				9.0-11.0	0.5-1.0	0.5-1.0	18.5-19.5	1.0-2.0
Date Sampled				02/18/14	02/19/14	02/19/14	02/21/14	02/19/14
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-					
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.69	0.20 J	0.13 J	240 D	0.15 J
2-Methylphenol (o-cresol)	MG/KG	0.33	500					
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500				0.13 J	
3,3'-Dichlorobenzidine	MG/KG	-	-					
Acenaphthene	MG/KG	20	500	5.9 D	0.75	0.59	9.0 J	0.17 J
Acenaphthylene	MG/KG	100	500	3.2	4.8 DJ	2.4 J	98 DJ	1.5
Acetophenone	MG/KG	-	-					
Anthracene	MG/KG	100	500	4.9 D	3.7 DJ	2.6	32 DJ	0.68
Benzaldehyde	MG/KG	-	-					
Benzo(a)anthracene	MG/KG	1	5.6	11 D	4.5 D	2.9	33 DJ	1.5
Benzo(a)pyrene	MG/KG	1	1	10 D	3.3 DJ	2.1	21 DJ	2.0
Benzo(b)fluoranthene	MG/KG	1	5.6	12 D	4.4 DJ	2.2 J	13 DJ	2.6
Benzo(g,h,i)perylene	MG/KG	100	500	9.4 D	2.5 J	1.1 J	6.7 J	1.9
Benzo(k)fluoranthene	MG/KG	0.8	56	5.0 D	2.2 J	0.95 J	5.5 J	0.96
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-					0.097 J
Butylbenzylphthalate	MG/KG	100 CP-51	-	0.071 J				
Carbazole	MG/KG	-	-	0.16 J	0.18 J	0.069 J	0.31 J	0.14 J
Chrysene	MG/KG	1	56	17 D	5.1 DJ	2.9 J	27 DJ	2.0
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	2.2	0.64 J	0.33 J	2.1	0.45

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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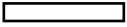
TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-41	SB-42	SB-42	SB-42	SB-43
Sample ID				SB-41 (9-11)	DUP021914	SB-42 (0.5-1.0)	SB-42 (18.5-19.5)	SB-43 (1-2)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				9.0-11.0	0.5-1.0	0.5-1.0	18.5-19.5	1.0-2.0
Date Sampled				02/18/14	02/19/14	02/19/14	02/21/14	02/19/14
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
Dibenzofuran	MG/KG	7	350	0.27 J	0.41	0.29 J		
Di-n-butylphthalate	MG/KG	0.014 CP-51	-	0.12 J	0.10 J	0.10 J		0.041 J
Fluoranthene	MG/KG	100	500	15 D	7.5 DJ	4.0 DJ	38 DJ	2.0
Fluorene	MG/KG	30	500	2.1	4.1 D	2.6	41 DJ	0.36 J
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	8.3 D	2.6 J	1.2 J	6.3 J	1.9
Naphthalene	MG/KG	12	500	3.3	0.50	0.48	710 D	0.73
Phenanthrene	MG/KG	100	500	8.1 D	13 D	8.2 D	140 DJ	1.4
Phenol	MG/KG	0.33	500				0.13 J	
Pyrene	MG/KG	100	500	22 D	11 DJ	6.6 DJ	42 J	2.8
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	140.09	70.79	41.28	1,464.6	23.1
Total Semivolatile Organic Compounds	MG/KG	-	-	140.789	71.95	42.159	1,482.17	23.418
Metals								
Aluminum	MG/KG	10000 CP-51	-	6,100	6,480	7,100	11,100	3,440
Antimony	MG/KG	12 CP-51	-			1.7 J		0.44 J
Arsenic	MG/KG	13	16	13.3	12.0	10.4	1.8	6.8
Barium	MG/KG	350	400	64.4	145	135	69.0	99.5
Beryllium	MG/KG	7.2	590	0.28	0.44	0.46		0.32
Cadmium	MG/KG	2.5	9.3	0.33			0.46	0.15 J
Calcium	MG/KG	10000 CP-51	-	5,420	4,140	5,080	1,320	5,810
Chromium	MG/KG	30	1500	13.2	15.5	24.8 J	48.2	7.6

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-41	SB-42	SB-42	SB-42	SB-43
Sample ID				SB-41 (9-11)	DUP021914	SB-42 (0.5-1.0)	SB-42 (18.5-19.5)	SB-43 (1-2)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				9.0-11.0	0.5-1.0	0.5-1.0	18.5-19.5	1.0-2.0
Date Sampled				02/18/14	02/19/14	02/19/14	02/21/14	02/19/14
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Metals								
Cobalt	MG/KG	20 CP-51	-	3.1	10.7	13.3	11.1	9.1
Copper	MG/KG	50	270	65.4	54.5	53.5	34.0	59.8
Iron	MG/KG	2000 CP-51	-	20,500	21,500	18,500	21,700	10,100
Lead	MG/KG	63	1000	335	134	144	2.1	76.9
Magnesium	MG/KG	-	-	3,860	2,230	2,790	6,580	1,640
Manganese	MG/KG	1600	10000	140	128	127	545	68.9
Mercury	MG/KG	0.18	2.8	0.28	0.18	0.13		0.30
Nickel	MG/KG	30	310	21.2	15.3	17.7	39.6	10.4
Potassium	MG/KG	-	-	719	1,460	1,590	5,120	798
Selenium	MG/KG	3.9	1500		2.1		0.62 J	1.3 J
Silver	MG/KG	2	1500				0.40 J	
Sodium	MG/KG	-	-	479	685	681	168	376
Thallium	MG/KG	5 CP-51	-					
Vanadium	MG/KG	39 CP-51	-	50.7	24.3	26.6	47.3	14.1
Zinc	MG/KG	109	10000	133	103	105	52.2	94.9

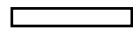
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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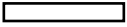
TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-43	SB-44	SB-44	SB-44
Sample ID				SB-43 (10-12)	SB-44 (1.5-2)	SB-44 (10-12)	SB-44 (15-20)
Matrix				Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	1.5-2.0	10.0-12.0	15.0-20.0
Date Sampled				02/19/14	02/19/14	02/21/14	02/21/14
Parameter	Units	Criteria (1)	Criteria (2)				
Volatile Organic Compounds							
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	-				
1,2-Dichloroethene (cis)	MG/KG	0.25	500				
2-Butanone	MG/KG	0.12	500		0.0071 J		
Acetone	MG/KG	0.05	500		0.040 J		
Benzene	MG/KG	0.06	44	1,600	0.0030	2,600	2,000
Carbon disulfide	MG/KG	2.7 CP-51	-				
Chloroform	MG/KG	0.37	350				
Cyclohexane	MG/KG	-	-				
Ethylbenzene	MG/KG	1	390	82	0.014	2,600	690
Isopropylbenzene	MG/KG	2.3 CP-51	-		0.0052	25 J	
Methylcyclohexane	MG/KG	-	-				
Methylene chloride	MG/KG	0.05	500		0.0029 J		
Styrene	MG/KG	300 CP-51	-	220	0.0012 J	1,300	1,000
Tetrachloroethene	MG/KG	1.3	150				
Toluene	MG/KG	0.7	500	950		3,800	2,500
Xylene (total)	MG/KG	0.26	500	1,000	0.0063	4,700	2,000
Total BTEX	MG/KG	-	-	3,632	0.0233	13,700	7,190
Total Volatile Organic Compounds	MG/KG	-	-	3,852	0.0797	15,025	8,190
Semivolatile Organic Compounds							
1,1'-Biphenyl	MG/KG	60 CP-51	-	530 J	0.34 J	150 J	1,800

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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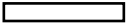
TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-43	SB-44	SB-44	SB-44
Sample ID				SB-43 (10-12)	SB-44 (1.5-2)	SB-44 (10-12)	SB-44 (15-20)
Matrix				Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	1.5-2.0	10.0-12.0	15.0-20.0
Date Sampled				02/19/14	02/19/14	02/21/14	02/21/14
Parameter	Units	Criteria (1)	Criteria (2)				
Semivolatile Organic Compounds							
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	-				
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	4,700 DJ		4,100 D	28,000 D
2-Methylphenol (o-cresol)	MG/KG	0.33	500				
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	500	1,100 DJ		0.65 J	
3,3'-Dichlorobenzidine	MG/KG	-	-				
Acenaphthene	MG/KG	20	500	950 J	0.84	150 J	1,300
Acenaphthylene	MG/KG	100	500		2.8	700 J	9,900 DJ
Acetophenone	MG/KG	-	-				
Anthracene	MG/KG	100	500	2,800 DJ	4.0 D	360 DJ	3,400
Benzaldehyde	MG/KG	-	-				
Benzo(a)anthracene	MG/KG	1	5.6	2,500 DJ	5.5 D	230 DJ	1,600
Benzo(a)pyrene	MG/KG	1	1		3.8 DJ	130 J	1,200
Benzo(b)fluoranthene	MG/KG	1	5.6	2,600 DJ	3.9 D	99 J	890
Benzo(g,h,i)perylene	MG/KG	100	500		2.0	35 J	490
Benzo(k)fluoranthene	MG/KG	0.8	56	830 DJ	2.8	48 J	450
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-				
Butylbenzylphthalate	MG/KG	100 CP-51	-				
Carbazole	MG/KG	-	-	700 J		5.7	81 J
Chrysene	MG/KG	1	56	2,000 DJ	5.5 D	250 DJ	1,700
Dibenz(a,h)anthracene	MG/KG	0.33	0.56		0.58	14	140 J

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TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-43	SB-44	SB-44	SB-44
Sample ID				SB-43 (10-12)	SB-44 (1.5-2)	SB-44 (10-12)	SB-44 (15-20)
Matrix				Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	1.5-2.0	10.0-12.0	15.0-20.0
Date Sampled				02/19/14	02/19/14	02/21/14	02/21/14
Parameter	Units	Criteria (1)	Criteria (2)				
Semivolatile Organic Compounds							
Dibenzofuran	MG/KG	7	350			59 J	700
Di-n-butylphthalate	MG/KG	0.014 CP-51	-				
Fluoranthene	MG/KG	100	500	7,800 D	7.4 D	340 DJ	2,700
Fluorene	MG/KG	30	500		3.9 D	710 DJ	4,000 DJ
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6		2.0	42 J	510 J
Naphthalene	MG/KG	12	500	48,000 D	0.46	11,000 D	74,000 D
Phenanthrene	MG/KG	100	500	12,000 D	15 D	1,500 DJ	11,000 DJ
Phenol	MG/KG	0.33	500	350 J			
Pyrene	MG/KG	100	500	6,700 D	13 D	530 DJ	5,000 DJ
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	90,880	73.48	20,238	146,280
Total Semivolatile Organic Compounds	MG/KG	-	-	93,560	73.82	20,453.35	148,861
Metals							
Aluminum	MG/KG	10000 CP-51	-	NA	11,300	9,910 J	NA
Antimony	MG/KG	12 CP-51	-	NA		1.7 J	NA
Arsenic	MG/KG	13	16	NA	11.5	30.9	NA
Barium	MG/KG	350	400	NA	98.2	66.6	NA
Beryllium	MG/KG	7.2	590	NA	0.47	0.54	NA
Cadmium	MG/KG	2.5	9.3	NA		0.53	NA
Calcium	MG/KG	10000 CP-51	-	NA	3,940	7,710	NA
Chromium	MG/KG	30	1500	NA	25.6	14.5	NA

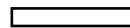
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TABLE 4-3E
BLOCK 2598 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-43	SB-44	SB-44	SB-44
Sample ID				SB-43 (10-12)	SB-44 (1.5-2)	SB-44 (10-12)	SB-44 (15-20)
Matrix				Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	1.5-2.0	10.0-12.0	15.0-20.0
Date Sampled				02/19/14	02/19/14	02/21/14	02/21/14
Parameter	Units	Criteria (1)	Criteria (2)				
Metals							
Cobalt	MG/KG	20 CP-51	-	NA	10.2	3.7	NA
Copper	MG/KG	50	270	NA	83.9	123 J	NA
Iron	MG/KG	2000 CP-51	-	NA	22,600	18,500	NA
Lead	MG/KG	63	1000	NA	224	306	NA
Magnesium	MG/KG	-	-	NA	3,960	2,650	NA
Manganese	MG/KG	1600	10000	NA	159	103	NA
Mercury	MG/KG	0.18	2.8	NA	0.83	3.7 J+	NA
Nickel	MG/KG	30	310	NA	26.5	24.7	NA
Potassium	MG/KG	-	-	NA	1,910	935 J	NA
Selenium	MG/KG	3.9	1500	NA	1.2 J	5.1	NA
Silver	MG/KG	2	1500	NA			NA
Sodium	MG/KG	-	-	NA	285	644 J	NA
Thallium	MG/KG	5 CP-51	-	NA		1.5	NA
Vanadium	MG/KG	39 CP-51	-	NA	33.0	29.3	NA
Zinc	MG/KG	109	10000	NA	147	165	NA

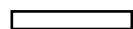
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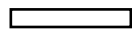
TABLE 4-3F
BLOCK 2597 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-07-URS	MW-07-URS	SB-18	SB-18	SB-18
Sample ID				MW-7-(4-4.5)	MW-7-(9.8-10.5)	SB-18-(4-4.5)	SB-18-(5.5-6)	SB-18-(8.5-9)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-4.5	9.8-10.5	4.0-4.5	5.5-6.0	8.5-9.0
Date Sampled				12/15/11	12/16/11	05/11/10	05/12/10	05/12/10
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
Acetone	MG/KG	0.05	500				0.0045 J	0.030 J
Carbon disulfide	MG/KG	2.7 CP-51	-					
Isopropylbenzene	MG/KG	2.3 CP-51	-		0.031			
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500		0.018			
Xylene (total)	MG/KG	0.26	500					
Total BTEX	MG/KG	-	-	ND	ND	ND	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	ND	0.049	ND	0.0045	0.03
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-	1.3 J	1.3 J			
2-Methylnaphthalene	MG/KG	0.41 CP-51	-				1.0	
Acenaphthene	MG/KG	20	500				0.42	
Acenaphthylene	MG/KG	100	500				6.1	0.049 J
Anthracene	MG/KG	100	500	0.088 J	0.18		2.7	
Benzo(a)anthracene	MG/KG	1	5.6	0.42	0.048 J	0.14 J	2.6	0.042 J
Benzo(a)pyrene	MG/KG	1	1	0.39		0.17 J	3.0	0.036 J
Benzo(b)fluoranthene	MG/KG	1	5.6	0.30		0.16 J	5.4	
Benzo(g,h,i)perylene	MG/KG	100	500	0.24		0.14 J	3.1	
Benzo(k)fluoranthene	MG/KG	0.8	56	0.34		0.096 J	2.5 J	

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

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Only Detected Results Reported.


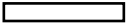
TABLE 4-3F
BLOCK 2597 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-07-URS	MW-07-URS	SB-18	SB-18	SB-18
Sample ID				MW-7-(4-4.5)	MW-7-(9.8-10.5)	SB-18-(4-4.5)	SB-18-(5.5-6)	SB-18-(8.5-9)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-4.5	9.8-10.5	4.0-4.5	5.5-6.0	8.5-9.0
Date Sampled				12/15/11	12/16/11	05/11/10	05/12/10	05/12/10
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.066 J	0.21	0.22	0.17 J	0.030 J
Butylbenzylphthalate	MG/KG	100 CP-51	-			0.019 J		
Carbazole	MG/KG	-	-				0.022 J	
Chrysene	MG/KG	1	56	0.38	0.075 J	0.11 J	1.9	0.032 J
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.074 J		0.036 J	1.4	
Dibenzofuran	MG/KG	7	350					
Di-n-butylphthalate	MG/KG	0.014 CP-51	-	0.11 J	0.11 J			
Di-n-octylphthalate	MG/KG	100 CP-51	-			0.042 J		
Fluoranthene	MG/KG	100	500	0.57		0.11 J	1.8	0.040 J
Fluorene	MG/KG	30	500				0.48	
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.21		0.14 J	2.5 J	
Naphthalene	MG/KG	12	500					
Phenanthrene	MG/KG	100	500	0.27		0.044 J	0.48	0.042 J
Pyrene	MG/KG	100	500	0.57	0.25	0.14 J	3.5	0.12 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	3.852	0.553	1.286	38.88	0.361
Total Semivolatile Organic Compounds	MG/KG	-	-	5.328	2.173	1.567	39.072	0.391
Metals								
Aluminum	MG/KG	10000 CP-51	-	10,600	11,500	9,410	10,300	28,600
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16	1.7		1.5		

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

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Only Detected Results Reported.


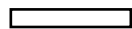
TABLE 4-3F
BLOCK 2597 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				MW-07-URS	MW-07-URS	SB-18	SB-18	SB-18
Sample ID				MW-7-(4-4.5)	MW-7-(9.8-10.5)	SB-18-(4-4.5)	SB-18-(5.5-6)	SB-18-(8.5-9)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				4.0-4.5	9.8-10.5	4.0-4.5	5.5-6.0	8.5-9.0
Date Sampled				12/15/11	12/16/11	05/11/10	05/12/10	05/12/10
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Barium	MG/KG	350	400	94.4	48.1	72.2	85.6	353
Beryllium	MG/KG	7.2	590	0.71	0.69		0.098 J	
Cadmium	MG/KG	2.5	9.3			0.25	0.31	0.58
Calcium	MG/KG	10000 CP-51	-	8,450	3,980	3,750	10,900	3,140
Chromium	MG/KG	30	1500	41.5	69.1	26.0	29.6	177
Cobalt	MG/KG	20 CP-51	-	8.3	8.3	9.7	11.1	20.9
Copper	MG/KG	50	270	44.4	89.2	33.6	31.0	28.0
Iron	MG/KG	2000 CP-51	-	20,500	21,500	22,600	26,500	46,400
Lead	MG/KG	63	1000	26.1	2.7	11.3	5.9	1.5
Magnesium	MG/KG	-	-	10,100	9,600	5,160	10,600	18,200
Manganese	MG/KG	1600	10000	280	195	289	209	386
Mercury	MG/KG	0.18	2.8	0.040 J		0.095		
Nickel	MG/KG	30	310	26.8	40.3	20	35.0	71.8
Potassium	MG/KG	-	-	6,170	8,880	3,010	3,500	16,500
Selenium	MG/KG	3.9	1500			1.5	1.4	
Sodium	MG/KG	-	-	1,300	204	145	131	171
Thallium	MG/KG	5 CP-51	-	0.65 J	0.90 J			0.59 J
Vanadium	MG/KG	39 CP-51	-	42.8	42.2	34.6	38.3	127
Zinc	MG/KG	109	10000	57.0	44.7	53.5	49.1	94.7

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

Blank cell or ND - Not detected. NA - Not analyzed.

J - The reported concentration is an estimated value; D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

TABLE 4-3F
BLOCK 2597 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-19	SB-19	SB-19	SB-20	SB-20
Sample ID				20100512-FD-1	SB-19-(3-4)	SB-19-(5-5.5)	SB-20-(3-3.5)	SB-20-(4.5-5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	3.0-4.0	5.0-5.5	3.0-3.5	4.5-5.0
Date Sampled				05/12/10	05/12/10	05/12/10	12/15/11	12/15/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Volatile Organic Compounds								
Acetone	MG/KG	0.05	500	0.031 J	0.016 J	0.24 J		0.014 J
Carbon disulfide	MG/KG	2.7 CP-51	-			0.019		0.0034 J
Isopropylbenzene	MG/KG	2.3 CP-51	-			0.065 J		
Methylcyclohexane	MG/KG	-	-			0.044 J		
Methylene chloride	MG/KG	0.05	500				0.009	
Xylene (total)	MG/KG	0.26	500			0.013 J		
Total BTEX	MG/KG	-	-	ND	ND	0.013	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	0.031	0.016	0.381	0.009	0.0174
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-					
2-Chloronaphthalene	MG/KG	-	-				1.4 J	
2-Methylnaphthalene	MG/KG	0.41 CP-51	-				0.21	
Acenaphthene	MG/KG	20	500					
Acenaphthylene	MG/KG	100	500	0.065 J	0.022 J			
Anthracene	MG/KG	100	500	0.045 J		1.9		1.3 J
Benzo(a)anthracene	MG/KG	1	5.6	0.23	0.021 J	0.60	0.10 J	0.31
Benzo(a)pyrene	MG/KG	1	1	0.23	0.023 J	0.57	0.10 J	0.29
Benzo(b)fluoranthene	MG/KG	1	5.6	0.27 J		0.34 J	0.14 J	0.12 J
Benzo(g,h,i)perylene	MG/KG	100	500	0.22	0.024 J	0.44	0.15 J	
Benzo(k)fluoranthene	MG/KG	0.8	56	0.11 J		0.34 J	0.10 J	0.17 J

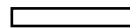
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

Blank cell or ND - Not detected. NA - Not analyzed.

J - The reported concentration is an estimated value; D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.


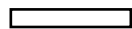
TABLE 4-3F
BLOCK 2597 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-19	SB-19	SB-19	SB-20	SB-20
Sample ID				20100512-FD-1	SB-19-(3-4)	SB-19-(5-5.5)	SB-20-(3-3.5)	SB-20-(4.5-5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	3.0-4.0	5.0-5.5	3.0-3.5	4.5-5.0
Date Sampled				05/12/10	05/12/10	05/12/10	12/15/11	12/15/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.065 J	0.046 J	0.054 J	0.061 J	
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-					
Chrysene	MG/KG	1	56	0.20		1.8	0.098 J	0.22
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.036 J		0.33 J	0.043 J	
Dibenzofuran	MG/KG	7	350					0.49 J
Di-n-butylphthalate	MG/KG	0.014 CP-51	-				0.10 J	
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	0.39	0.019 J	0.89	0.12 J	0.26
Fluorene	MG/KG	30	500			3.4		
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	0.20 J	0.021 J	0.24 J	0.11 J	
Naphthalene	MG/KG	12	500				0.13 J	
Phenanthrene	MG/KG	100	500	0.10 J	0.022 J	1.6	0.11 J	0.41 J
Pyrene	MG/KG	100	500	0.49	0.023 J	1.5	0.11 J	0.55 J
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	2.586	0.175	13.95	1.521	3.63
Total Semivolatile Organic Compounds	MG/KG	-	-	2.651	0.221	14.004	3.082	4.12
Metals								
Aluminum	MG/KG	10000 CP-51	-	14,100	13,900	9,720	13,700	17,400
Antimony	MG/KG	12 CP-51	-					
Arsenic	MG/KG	13	16				1.7	1.9

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

Blank cell or ND - Not detected. NA - Not analyzed.

J - The reported concentration is an estimated value; D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.


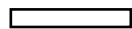
TABLE 4-3F
BLOCK 2597 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-19	SB-19	SB-19	SB-20	SB-20
Sample ID				20100512-FD-1	SB-19-(3-4)	SB-19-(5-5.5)	SB-20-(3-3.5)	SB-20-(4.5-5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-4.0	3.0-4.0	5.0-5.5	3.0-3.5	4.5-5.0
Date Sampled				05/12/10	05/12/10	05/12/10	12/15/11	12/15/11
Parameter	Units	Criteria (1)	Criteria (2)	Field Duplicate (1-1)				
Metals								
Barium	MG/KG	350	400	55.7	57.7	76.2	192	225
Beryllium	MG/KG	7.2	590				0.80	0.94
Cadmium	MG/KG	2.5	9.3	0.32	0.32	0.27		0.15 J
Calcium	MG/KG	10000 CP-51	-	1,770	1,660	2,100	3,040	11,500
Chromium	MG/KG	30	1500	12.1 J	21.9 J	11.9	25.7	71.6
Cobalt	MG/KG	20 CP-51	-	8.8	8.4	9.0	5.7	15.7
Copper	MG/KG	50	270	56.8	51.6	57.8	35.9	32.2
Iron	MG/KG	2000 CP-51	-	29,400	29,500	24,700	26,800	42,800
Lead	MG/KG	63	1000	12.4	9.4	6.3	17.5	13.9
Magnesium	MG/KG	-	-	7,950	7,240	6,380	8,730	13,000
Manganese	MG/KG	1600	10000	222	204	237	241	174
Mercury	MG/KG	0.18	2.8	0.010 J	0.0086 J	0.031 J	0.11	0.021 J
Nickel	MG/KG	30	310	10.4	13.0	6.8	19.4	58.2
Potassium	MG/KG	-	-	3,860	3,760	2,550	8,570	7,550
Selenium	MG/KG	3.9	1500	2.0	2.3	1.8		
Sodium	MG/KG	-	-	370	326	175	132	112
Thallium	MG/KG	5 CP-51	-				1.1	1.2
Vanadium	MG/KG	39 CP-51	-	41.8	45.2	49.6	70.4	99.0
Zinc	MG/KG	109	10000	80.5	74.9	58.3	128	165

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

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 Concentration Exceeds Criteria (2)

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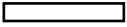
TABLE 4-3F
BLOCK 2597 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-21	SB-21	SB-21	SB-22	SB-22
Sample ID				SB-21-(3.5-4)	SB-21-(10-11)	SB-21-(21-22)	20111215-FD-1	SB-22-(4-4.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.0	10.0-11.0	21.0-22.0	4.0-4.5	4.0-4.5
Date Sampled				12/15/11	12/16/11	12/16/11	12/15/11	12/15/11
Parameter	Units	Criteria (1)	Criteria (2)				Field Duplicate (1-1)	
				Volatile Organic Compounds				
Acetone	MG/KG	0.05	500		0.010 J	0.0088 J		
Carbon disulfide	MG/KG	2.7 CP-51	-		0.0029			
Isopropylbenzene	MG/KG	2.3 CP-51	-					
Methylcyclohexane	MG/KG	-	-					
Methylene chloride	MG/KG	0.05	500				0.0036	
Xylene (total)	MG/KG	0.26	500					
Total BTEX	MG/KG	-	-	ND	ND	ND	ND	ND
Total Volatile Organic Compounds	MG/KG	-	-	ND	0.0129	0.0088	0.0036	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	MG/KG	60 CP-51	-	0.13 J	32			
2-Chloronaphthalene	MG/KG	-	-	1.4 J		1.4 J	1.3 J	1.3 J
2-Methylnaphthalene	MG/KG	0.41 CP-51	-	0.092 J				
Acenaphthene	MG/KG	20	500	0.17 J	120			
Acenaphthylene	MG/KG	100	500	0.60	22	0.091 J	0.092 J	0.12 J
Anthracene	MG/KG	100	500	0.84	60	0.28	0.085 J	0.097 J
Benzo(a)anthracene	MG/KG	1	5.6	2.8 D	39	0.39	0.29	0.30
Benzo(a)pyrene	MG/KG	1	1	2.9 D	28	0.55	0.28	0.38
Benzo(b)fluoranthene	MG/KG	1	5.6	2.5	18 J	0.16 J	0.25	0.26
Benzo(g,h,i)perylene	MG/KG	100	500	1.9	12 J	0.26	0.18	0.27
Benzo(k)fluoranthene	MG/KG	0.8	56	2.4	11 J	0.12 J	0.19	0.30

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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Only Detected Results Reported.


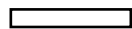
TABLE 4-3F
BLOCK 2597 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-21	SB-21	SB-21	SB-22	SB-22
Sample ID				SB-21-(3.5-4)	SB-21-(10-11)	SB-21-(21-22)	20111215-FD-1	SB-22-(4-4.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.0	10.0-11.0	21.0-22.0	4.0-4.5	4.0-4.5
Date Sampled				12/15/11	12/16/11	12/16/11	12/15/11	12/15/11
Parameter	Units	Criteria (1)	Criteria (2)				Field Duplicate (1-1)	
Semivolatile Organic Compounds								
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	-	0.084 J			0.094 J	0.11 J
Butylbenzylphthalate	MG/KG	100 CP-51	-					
Carbazole	MG/KG	-	-	0.23				
Chrysene	MG/KG	1	56	1.5	37	0.32	0.24	0.29
Dibenz(a,h)anthracene	MG/KG	0.33	0.56	0.37			0.068 J	0.083 J
Dibenzofuran	MG/KG	7	350	0.14 J	6.4 J			
Di-n-butylphthalate	MG/KG	0.014 CP-51	-	0.15 J		0.087 J	0.11 J	0.10 J
Di-n-octylphthalate	MG/KG	100 CP-51	-					
Fluoranthene	MG/KG	100	500	4.0 D	62	0.23	0.33	0.35
Fluorene	MG/KG	30	500	0.20	62			
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	5.6	1.6	8.2 J	0.073 J	0.13 J	0.20
Naphthalene	MG/KG	12	500	0.093 J	32	0.065 J		
Phenanthrene	MG/KG	100	500	2.3	190	0.088 J	0.16 J	0.17 J
Pyrene	MG/KG	100	500	3.5 D	99	1.7	0.34	0.40
Total Polynuclear Aromatic Hydrocarbons	MG/KG	-	-	27.765	800.2	4.327	2.635	3.22
Total Semivolatile Organic Compounds	MG/KG	-	-	29.899	838.6	5.814	4.139	4.73
Metals								
Aluminum	MG/KG	10000 CP-51	-	4,080	7,980	18,800	8,850	8,200
Antimony	MG/KG	12 CP-51	-	4.0				
Arsenic	MG/KG	13	16	9.6	4.8	9.0	2.1	2.1

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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Blank cell or ND - Not detected. NA - Not analyzed.

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Only Detected Results Reported.


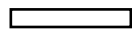
TABLE 4-3F
BLOCK 2597 LOT 1
SUMMARY OF DETECTED COMPOUNDS IN RI SOIL SAMPLES
EAST 138th STREET WORKS SITE

Location ID				SB-21	SB-21	SB-21	SB-22	SB-22
Sample ID				SB-21-(3.5-4)	SB-21-(10-11)	SB-21-(21-22)	20111215-FD-1	SB-22-(4-4.5)
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.5-4.0	10.0-11.0	21.0-22.0	4.0-4.5	4.0-4.5
Date Sampled				12/15/11	12/16/11	12/16/11	12/15/11	12/15/11
Parameter	Units	Criteria (1)	Criteria (2)				Field Duplicate (1-1)	
Metals								
Barium	MG/KG	350	400	66.9	79.3	104	61.8	56.2
Beryllium	MG/KG	7.2	590	0.36	0.85	2.0	0.63	0.62
Cadmium	MG/KG	2.5	9.3	0.87				0.016 J
Calcium	MG/KG	10000 CP-51	-	32,200	1,960	2,350	10,300	14,800
Chromium	MG/KG	30	1500	13.9	21.2	45.8	26.4	29.3
Cobalt	MG/KG	20 CP-51	-	3.1	4.9	9.1	6.3	6.4
Copper	MG/KG	50	270	37.1	16.4	52.8	28.1	28.8
Iron	MG/KG	2000 CP-51	-	55,400	19,800	37,700	17,000	18,200
Lead	MG/KG	63	1000	132	6.9	48.8	34.7	41.5
Magnesium	MG/KG	-	-	2,530	4,440	10,000	8,240	7,430
Manganese	MG/KG	1600	10000	276	198	515	291	260
Mercury	MG/KG	0.18	2.8	0.13	0.012 J	0.046	0.066	0.045
Nickel	MG/KG	30	310	14.0	11.5	21.7	20.1	20.1
Potassium	MG/KG	-	-	1,190	4,040	10,700	3,700	3,710
Selenium	MG/KG	3.9	1500					
Sodium	MG/KG	-	-	259	614	2,840	402	385
Thallium	MG/KG	5 CP-51	-		0.33 J	0.93 J	0.54 J	0.65 J
Vanadium	MG/KG	39 CP-51	-	25.5	32.6	77.2	31.9	37.0
Zinc	MG/KG	109	10000	159	35.2	93.8	51.8	52.8

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

- = No standard, criteria or guidance value.

Blank cell or ND - Not detected. NA - Not analyzed.

J - The reported concentration is an estimated value; D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

TABLE 4-4A
BLOCK 2592 LOT 35
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Volatile Organic Compounds										
Acetone	MG/KG	0.05	6	4	0.004	0.061	0.023	1	MW-03	6-7
Benzene	MG/KG	0.06	6	1	0.310	0.310	0.310	1	MW-03	6-7
Carbon disulfide	MG/KG	2.7 CP-51	6	1	0.015	0.015	0.015	0	MW-03	6-7
Ethylbenzene	MG/KG	1	6	1	0.036	0.036	0.036	0	MW-03	6-7
Isopropylbenzene	MG/KG	2.3 CP-51	6	1	2.40	2.40	2.40	1	MW-03	6-7
Methyl acetate	MG/KG	-	6	2	0.006	0.006	0.006	0	SB-06	3-4
Methylcyclohexane	MG/KG	-	6	1	1.00	1.00	1.00	0	MW-03	6-7
Methylene chloride	MG/KG	0.05	6	1	0.001	0.001	0.001	0	SB-06	3-4
Tetrachloroethene	MG/KG	1.3	6	1	0.020	0.020	0.020	0	MW-03	6-7
Toluene	MG/KG	0.7	6	2	0.001	0.024	0.013	0	MW-03	6-7
Xylene (total)	MG/KG	0.26	6	1	0.290	0.290	0.290	1	MW-03	6-7
Semivolatile Organic Compounds										
2-Methylnaphthalene	MG/KG	0.41 CP-51	6	1	14.00	14.00	14.00	1	MW-03	6-7
Acenaphthene	MG/KG	20	6	2	0.027	1.00	0.514	0	MW-03	6-7
Acenaphthylene	MG/KG	100	6	2	0.048	0.120	0.084	0	MW-03	3.5-4.5
Anthracene	MG/KG	100	6	3	0.047	1.70	0.636	0	MW-03	6-7
Benzo(a)anthracene	MG/KG	1	6	5	0.071	1.90	0.538	1	MW-03	6-7
Benzo(a)pyrene	MG/KG	1	6	5	0.046	1.50	0.419	1	MW-03	6-7
Benzo(b)fluoranthene	MG/KG	1	6	5	0.066	1.80	0.495	1	MW-03	6-7

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

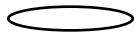
 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4A
BLOCK 2592 LOT 35
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
Benzo(g,h,i)perylene	MG/KG	100	6	5	0.050	0.880	0.291	0	MW-03	6-7
Benzo(k)fluoranthene	MG/KG	0.8	6	5	0.030	0.900	0.246	1	MW-03	6-7
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	6	6	0.033	1.10	0.255	0	MW-03	6-7
Carbazole	MG/KG	-	6	1	0.042	0.042	0.042	0	SB-06	3-4
Chrysene	MG/KG	1	6	5	0.065	3.10	0.763	1	MW-03	6-7
Dibenz(a,h)anthracene	MG/KG	0.33	6	2	0.034	0.040	0.037	0	MW-03	3.5-4.5
Dibenzofuran	MG/KG	7	6	1	0.023	0.023	0.023	0	SB-06	3-4
Di-n-butylphthalate	MG/KG	0.014 CP-51	6	2	0.021	1.60	0.811	2	MW-03	6-7
Fluoranthene	MG/KG	100	6	5	0.140	4.00	1.14	0	MW-03	6-7
Fluorene	MG/KG	30	6	2	0.042	4.00	2.02	0	MW-03	6-7
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	6	5	0.037	0.640	0.205	1	MW-03	6-7
Naphthalene	MG/KG	12	6	1	0.021	0.021	0.021	0	MW-03	3.5-4.5
Phenanthrene	MG/KG	100	6	5	0.024	10.00	2.13	0	MW-03	6-7
Pyrene	MG/KG	100	6	5	0.140	7.00	1.70	0	MW-03	6-7
Metals										
Aluminum	MG/KG	10000 CP-51	6	6	8,650	1.19E+04	9,717	1	SB-06	4.5-5.5
Arsenic	MG/KG	13	6	5	0.780	2.10	1.50	0	MW-03	3.5-4.5
Barium	MG/KG	350	6	6	53.80	91.90	75.53	0	SB-06	3-4
Beryllium	MG/KG	7.2	6	6	0.840	1.40	1.05	0	MW-03	14-15

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4A
BLOCK 2592 LOT 35
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Metals										
Cadmium	MG/KG	2.5	6	6	0.088	0.340	0.233	0	MW-03	3.5-4.5
Calcium	MG/KG	10000 CP-51	6	6	2,430	4,580	3,723	0	SB-06	4.5-5.5
Chromium	MG/KG	30	6	6	22.30	34.40	27.33	1	MW-03	6-7
Cobalt	MG/KG	20 CP-51	6	6	7.40	12.20	10.28	0	MW-03	14-15
Copper	MG/KG	50	6	6	30.90	51.70	38.42	1	MW-03	6-7
Iron	MG/KG	2000 CP-51	6	6	1.90E+04	2.64E+04	2.28E+04	6	SB-06	4.5-5.5
Lead	MG/KG	63	6	6	5.00	41.30	17.33	0	MW-03	3.5-4.5
Magnesium	MG/KG	-	6	6	4,100	6,930	5,562	0	SB-06	4.5-5.5
Manganese	MG/KG	1600	6	6	134.0	311.0	241.8	0	SB-06	4.5-5.5
Mercury	MG/KG	0.18	6	4	0.021	0.190	0.099	1	SB-06	3-4
Nickel	MG/KG	30	6	6	19.10	23.60	21.65	0	SB-06	4.5-5.5
Potassium	MG/KG	-	6	6	2,000	3,660	3,045	0	SB-06	3-4
Selenium	MG/KG	3.9	6	6	1.90	3.40	2.82	0	SB-06	4.5-5.5
Silver	MG/KG	2	6	3	0.070	0.110	0.091	0	MW-03	6-7
Sodium	MG/KG	-	6	6	123.0	291.0	185.5	0	MW-03	6-7
Thallium	MG/KG	5 CP-51	6	4	1.30	2.30	1.83	0	SB-06	4.5-5.5
Vanadium	MG/KG	39 CP-51	6	6	27.70	35.90	31.03	0	SB-06	4.5-5.5
Zinc	MG/KG	109	6	6	50.30	213.0	99.75	2	MW-03	6-7

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.



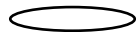
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4B
BLOCK 2598 LOT 62
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Volatile Organic Compounds										
Acetone	MG/KG	0.05	3	3	0.007	0.020	0.013	0	MW-04	3.5-4.5
Isopropylbenzene	MG/KG	2.3 CP-51	3	2	0.100	0.160	0.130	0	MW-04	3.5-4.5
Methylcyclohexane	MG/KG	-	3	2	0.170	0.280	0.225	0	MW-04	3.5-4.5
Styrene	MG/KG	300 CP-51	3	1	0.017	0.017	0.017	0	MW-04	3.5-4.5
Xylene (total)	MG/KG	0.26	3	1	0.006	0.006	0.006	0	MW-04	3.5-4.5
Semivolatile Organic Compounds										
2-Methylnaphthalene	MG/KG	0.41 CP-51	3	2	9.20	10.00	9.60	2	MW-04	3.5-4.5
Acenaphthene	MG/KG	20	3	1	0.430	0.430	0.430	0	MW-04	3.5-4.5
Acenaphthylene	MG/KG	100	3	1	0.310	0.310	0.310	0	MW-04	3.5-4.5
Anthracene	MG/KG	100	3	2	0.170	0.430	0.300	0	MW-04	3.5-4.5
Benzo(a)anthracene	MG/KG	1	3	2	0.140	0.220	0.180	0	MW-04	3.5-4.5
Benzo(a)pyrene	MG/KG	1	3	2	0.100	0.130	0.115	0	MW-04	3.5-4.5
Benzo(b)fluoranthene	MG/KG	1	3	2	0.140	0.160	0.150	0	MW-04	3.5-4.5
Benzo(g,h,i)perylene	MG/KG	100	3	2	0.099	0.220	0.160	0	MW-04	3.5-4.5
Benzo(k)fluoranthene	MG/KG	0.8	3	2	0.060	0.066	0.063	0	MW-04	3.5-4.5
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	3	2	0.044	0.052	0.048	0	MW-04	3.5-4.5
Chrysene	MG/KG	1	3	2	0.150	0.220	0.185	0	MW-04	3.5-4.5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.



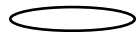
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4B
BLOCK 2598 LOT 62
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
Dibenz(a,h)anthracene	MG/KG	0.33	3	1	0.026	0.026	0.026	0	MW-04	3.5-4.5
Dibenzofuran	MG/KG	7	3	1	0.310	0.310	0.310	0	MW-04	3.5-4.5
Di-n-butylphthalate	MG/KG	0.014 CP-51	3	1	0.110	0.110	0.110	1	MW-04	3.5-4.5
Fluoranthene	MG/KG	100	3	2	0.300	0.460	0.380	0	MW-04	3.5-4.5
Fluorene	MG/KG	30	3	1	0.770	0.770	0.770	0	MW-04	3.5-4.5
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	3	2	0.073	0.130	0.102	0	MW-04	3.5-4.5
Naphthalene	MG/KG	12	3	2	0.540	0.560	0.550	0	MW-04	3.5-4.5
Phenanthrene	MG/KG	100	3	2	3.80	4.70	4.25	0	MW-04	3.5-4.5
Pyrene	MG/KG	100	3	2	1.00	1.30	1.15	0	MW-04	3.5-4.5
Metals										
Aluminum	MG/KG	10000 CP-51	3	3	8,120	1.15E+04	9,510	1	MW-04	3.5-4.5
Arsenic	MG/KG	13	3	2	1.40	2.20	1.80	0	MW-04	3.5-4.5
Barium	MG/KG	350	3	3	46.00	83.60	67.00	0	MW-04	3.5-4.5
Beryllium	MG/KG	7.2	3	3	0.650	1.20	0.917	0	MW-04	3.5-4.5
Cadmium	MG/KG	2.5	3	3	0.045	0.330	0.154	0	MW-04	3.5-4.5
Calcium	MG/KG	10000 CP-51	3	3	1,450	1.45E+04	7,617	1	MW-04	3.5-4.5
Chromium	MG/KG	30	3	3	14.20	27.00	21.27	0	MW-04	3.5-4.5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.



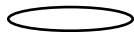
Concentration Exceeds Criteria

Only Detected Results Reported.

**TABLE 4-4B
BLOCK 2598 LOT 62
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE**

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Metals										
Cobalt	MG/KG	20 CP-51	3	3	6.30	12.30	9.40	0	MW-04	3.5-4.5
Copper	MG/KG	50	3	3	9.20	35.60	24.00	0	MW-04	3.5-4.5
Iron	MG/KG	2000 CP-51	3	3	1.97E+04	2.53E+04	2.24E+04	3	MW-04	3.5-4.5
Lead	MG/KG	63	3	3	4.90	11.60	8.10	0	MW-04	3.5-4.5
Magnesium	MG/KG	-	3	3	2,800	1.12E+04	6,893	0	MW-04	3.5-4.5
Manganese	MG/KG	1600	3	3	213.0	232.0	219.3	0	MW-04	3.5-4.5
Mercury	MG/KG	0.18	3	1	0.013	0.013	0.013	0	MW-04	3.5-4.5
Nickel	MG/KG	30	3	3	11.50	21.20	16.67	0	MW-04	3.5-4.5
Potassium	MG/KG	-	3	3	828.0	3,060	2,029	0	MW-04	3.5-4.5
Selenium	MG/KG	3.9	3	3	1.50	3.70	2.60	0	MW-04	3.5-4.5
Silver	MG/KG	2	3	2	0.087	0.120	0.104	0	MW-04	3.5-4.5
Sodium	MG/KG	-	3	3	53.00	126.0	99.00	0	MW-04	3.5-4.5
Thallium	MG/KG	5 CP-51	3	1	1.70	1.70	1.70	0	MW-04	3.5-4.5
Vanadium	MG/KG	39 CP-51	3	3	16.10	35.10	27.50	0	MW-04	3.5-4.5
Zinc	MG/KG	109	3	3	28.50	52.40	40.30	0	MW-04	3.5-4.5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.




Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4C
BLOCK 2591 LOT 46
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Volatile Organic Compounds										
1,2-Dichlorobenzene	MG/KG	1.1	53	2	0.001	0.008	0.005	0	SB-37	8.2-9
2-Butanone	MG/KG	0.12	53	5	0.003	0.007	0.005	0	SB-32	9-10
Acetone	MG/KG	0.05	53	37	0.004	0.110	0.021	2	SB-37	8.2-9
Benzene	MG/KG	0.06	53	16	0.002	0.320	0.048	2	MW-01	11-12
Carbon disulfide	MG/KG	2.7 CP-51	53	18	0.001	0.041	0.010	0	SB-38	15.5-16.5
Chloroform	MG/KG	0.37	53	1	0.110	0.110	0.110	0	SB-37	8.5-9
Cyclohexane	MG/KG	-	53	7	0.004	2.00	0.434	0	SB-37	8.5-9
Ethylbenzene	MG/KG	1	53	8	0.002	8.60	1.48	2	SB-37	8.2-9
Isopropylbenzene	MG/KG	2.3 CP-51	53	10	0.005	1.20	0.363	0	SB-39	6.7-7.7
Methyl tert-butyl ether	MG/KG	0.93	53	1	0.002	0.002	0.002	0	SB-38	15.5-16.5
Methylcyclohexane	MG/KG	-	53	9	0.004	2.20	0.695	0	SB-39	6.7-7.7
Methylene chloride	MG/KG	0.05	53	4	0.002	0.002	0.002	0	SB-39	14-15
Styrene	MG/KG	300 CP-51	53	1	0.048	0.048	0.048	0	SB-38	7.8-8.5
Toluene	MG/KG	0.7	53	12	0.001	0.390	0.045	0	MW-01	11-12
Xylene (total)	MG/KG	0.26	53	11	0.003	4.60	0.590	3	SB-37	8.2-9
Semivolatile Organic Compounds										
1,1'-Biphenyl	MG/KG	60 CP-51	53	16	0.025	54.00	6.29	0	SB-38	7.8-8.5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.


 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4C
BLOCK 2591 LOT 46
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
2,4-Dimethylphenol	MG/KG	-	53	5	0.190	1.80	0.670	0	SB-05	6.5-7
2-Methylnaphthalene	MG/KG	0.41 CP-51	53	25	0.027	520.0	33.60	15	SB-38	7.8-8.5
2-Methylphenol (o-cresol)	MG/KG	0.33	53	7	0.021	1.10	0.288	1	SB-05	6.5-7
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	53	11	0.025	3.20	0.523	4	SB-05	6.5-7
Acenaphthene	MG/KG	20	53	32	0.020	250.0	11.66	2	SB-05	6.5-7
Acenaphthylene	MG/KG	100	53	28	0.034	29.00	3.97	0	SB-38	7.8-8.5
Acetophenone	MG/KG	-	53	10	0.023	24.00	2.53	0	SB-38	7.8-8.5
Anthracene	MG/KG	100	53	38	0.021	140.0	8.82	1	SB-05	6.5-7
Benzo(a)anthracene	MG/KG	1	53	43	0.031	390.0	17.29	21	SB-05	6.5-7
Benzo(a)pyrene	MG/KG	1	53	41	0.042	290.0	12.95	18	SB-05	6.5-7
Benzo(b)fluoranthene	MG/KG	1	53	40	0.069	370.0	17.87	18	SB-05	6.5-7
Benzo(g,h,i)perylene	MG/KG	100	53	36	0.056	160.0	9.67	1	SB-05	6.5-7
Benzo(k)fluoranthene	MG/KG	0.8	53	40	0.034	27.00	3.14	15	SB-05	6.5-7
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	53	26	0.026	0.550	0.136	0	SB-33	10.5-11
Butylbenzylphthalate	MG/KG	100 CP-51	53	1	0.076	0.076	0.076	0	SB-33	10.5-11
Carbazole	MG/KG	-	53	21	0.031	96.00	6.98	0	SB-05	6.5-7
Chrysene	MG/KG	1	53	42	0.026	390.0	17.56	22	SB-05	6.5-7

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.


 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4C
BLOCK 2591 LOT 46
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
Dibenz(a,h)anthracene	MG/KG	0.33	53	35	0.019	27.00	2.44	13	SB-05	6.5-7
Dibenzofuran	MG/KG	7	53	26	0.023	170.0	10.67	5	SB-05	6.5-7
Di-n-butylphthalate	MG/KG	0.014 CP-51	53	6	0.024	0.230	0.074	6	SB-32	3-4
Fluoranthene	MG/KG	100	53	46	0.020	1,100	36.85	4	SB-05	6.5-7
Fluorene	MG/KG	30	53	34	0.032	170.0	11.95	3	SB-05	6.5-7
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	53	37	0.040	140.0	7.96	22	SB-05	6.5-7
Naphthalene	MG/KG	12	53	35	0.021	1,100	53.17	5	SB-38	7.8-8.5
Phenanthrene	MG/KG	100	53	43	0.041	1,200	50.28	4	SB-05	6.5-7
Phenol	MG/KG	0.33	53	8	0.020	1.10	0.341	4	SB-05	6.5-7
Pyrene	MG/KG	100	53	43	0.048	830.0	35.94	4	SB-05	6.5-7
Metals										
Aluminum	MG/KG	10000 CP-51	53	53	1,330	1.67E+04	9,139	21	SB-32	13-14
Antimony	MG/KG	12 CP-51	53	30	0.370	3.20	1.03	0	SB-38	7.8-8.5
Arsenic	MG/KG	13	53	51	1.20	32.70	5.42	1	SB-38	7.8-8.5
Barium	MG/KG	350	53	53	21.80	720.0	92.03	2	SB-33	3.5-4
Beryllium	MG/KG	7.2	53	52	0.039	1.50	0.576	0	SB-02	4.7-5.3
Cadmium	MG/KG	2.5	53	52	0.096	2.70	0.710	1	SB-38	7.8-8.5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.


 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4C
BLOCK 2591 LOT 46
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Metals										
Calcium	MG/KG	10000 CP-51	53	53	567.0	1.56E+05	1.39E+04	16	MW-01	4.5-5
Chromium	MG/KG	30	53	53	6.80	63.20	22.68	10	SB-32	9-10
Cobalt	MG/KG	20 CP-51	53	53	1.50	18.20	8.12	0	SB-05	11.5-12
Copper	MG/KG	50	53	53	8.30	319.0	45.70	14	SB-38	7.8-8.5
Iron	MG/KG	2000 CP-51	53	53	6,900	6.22E+04	2.31E+04	53	SB-38	7.8-8.5
Lead	MG/KG	63	53	53	3.30	1,330	132.2	17	SB-33	3.5-4
Magnesium	MG/KG	-	53	53	412.0	2.99E+04	5,601	0	SB-35	9.5-10
Manganese	MG/KG	1600	53	53	22.60	1,150	288.5	0	SB-05	6.5-7
Mercury	MG/KG	0.18	53	48	0.007	4.10	0.390	20	SB-04	2.5-3.5
Nickel	MG/KG	30	53	53	6.00	35.00	18.33	1	SB-32	9-10
Potassium	MG/KG	-	53	53	412.0	6,460	2,052	0	SB-38	11-11.5
Selenium	MG/KG	3.9	53	35	0.600	4.20	1.68	1	SB-38	7.8-8.5
Silver	MG/KG	2	53	14	0.073	0.370	0.158	0	SB-36	6.5-7
Sodium	MG/KG	-	53	53	74.20	4,680	1,055	0	SB-38	15.5-16.5
Thallium	MG/KG	5 CP-51	53	24	0.270	4.50	1.15	0	SB-05	6.5-7
Vanadium	MG/KG	39 CP-51	53	53	8.60	45.80	27.87	8	SB-38	11-11.5
Zinc	MG/KG	109	53	53	18.90	556.0	116.1	18	SB-37	3-4

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.


 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4D
BLOCK 2590 LOT 51
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Volatile Organic Compounds										
Acetone	MG/KG	0.05	10	7	0.009	0.036	0.015	0	SB-11	4.5-5
Carbon disulfide	MG/KG	2.7 CP-51	10	1	0.004	0.004	0.004	0	SB-12	12-13
Isopropylbenzene	MG/KG	2.3 CP-51	10	1	0.005	0.005	0.005	0	SB-12	7-8
Semivolatile Organic Compounds										
2-Methylnaphthalene	MG/KG	0.41 CP-51	10	6	0.020	2.50	0.479	1	SB-11	4.5-5
Acenaphthene	MG/KG	20	10	5	0.023	0.140	0.067	0	SB-09	4.5-5.5
Acenaphthylene	MG/KG	100	10	5	0.021	1.50	0.682	0	SB-11	4.5-5
Acetophenone	MG/KG	-	10	3	0.045	0.360	0.212	0	SB-11	4.5-5
Anthracene	MG/KG	100	10	4	0.042	0.710	0.423	0	SB-11	3-4
Benzaldehyde	MG/KG	-	10	1	0.040	0.040	0.040	0	SB-12	3.5-4
Benzo(a)anthracene	MG/KG	1	10	6	0.031	3.00	1.12	3	SB-11	3-4
Benzo(a)pyrene	MG/KG	1	10	6	0.027	2.40	0.872	3	SB-11	3-4
Benzo(b)fluoranthene	MG/KG	1	10	6	0.032	4.40	1.52	2	SB-11	3-4
Benzo(g,h,i)perylene	MG/KG	100	10	5	0.040	3.10	1.31	0	SB-11	3-4
Benzo(k)fluoranthene	MG/KG	0.8	10	5	0.026	2.60	1.30	3	SB-11	4.5-5
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	10	9	0.022	2.70	0.389	0	SB-11	4.5-5
Butylbenzylphthalate	MG/KG	100 CP-51	10	1	0.040	0.040	0.040	0	SB-11	4.5-5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.


 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4D
BLOCK 2590 LOT 51
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
Carbazole	MG/KG	-	10	3	0.069	0.087	0.079	0	SB-11	4.5-5
Chrysene	MG/KG	1	10	6	0.022	3.70	1.39	3	SB-11	3-4
Dibenz(a,h)anthracene	MG/KG	0.33	10	4	0.120	0.860	0.478	2	SB-11	3-4
Dibenzofuran	MG/KG	7	10	3	0.047	0.160	0.088	0	SB-11	4.5-5
Di-n-octylphthalate	MG/KG	100 CP-51	10	1	0.032	0.032	0.032	0	SB-11	3-4
Fluoranthene	MG/KG	100	10	7	0.027	5.20	1.55	0	SB-11	3-4
Fluorene	MG/KG	30	10	3	0.120	0.340	0.203	0	SB-11	4.5-5
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	10	5	0.045	2.50	1.10	3	SB-11	3-4
Naphthalene	MG/KG	12	10	7	0.026	3.40	0.636	0	SB-11	4.5-5
Phenanthrene	MG/KG	100	10	4	0.024	2.70	1.33	0	SB-11	4.5-5
Pyrene	MG/KG	100	10	7	0.031	7.10	2.12	0	SB-11	3-4
Metals										
Aluminum	MG/KG	10000 CP-51	10	10	4,960	1.73E+04	1.13E+04	7	SB-12	3.5-4
Arsenic	MG/KG	13	10	9	0.790	10.40	4.02	0	SB-12	12-13
Barium	MG/KG	350	10	10	31.50	141.0	77.22	0	SB-12	4.5-5.5
Beryllium	MG/KG	7.2	10	5	0.300	0.750	0.432	0	SB-12	12-13
Cadmium	MG/KG	2.5	10	10	0.054	0.660	0.236	0	SB-11	4.5-5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.


 Concentration Exceeds Criteria

Only Detected Results Reported.

**TABLE 4-4D
BLOCK 2590 LOT 51
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE**

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Metals										
Calcium	MG/KG	10000 CP-51	10	10	896.0	1.34E+04	3,155	1	SB-09	4.5-5.5
Chromium	MG/KG	30	10	10	12.50	37.80	24.76	2	SB-12	3.5-4
Cobalt	MG/KG	20 CP-51	10	10	4.70	12.90	8.08	0	SB-12	7-8
Copper	MG/KG	50	10	10	8.90	75.10	32.36	2	SB-11	4.5-5
Iron	MG/KG	2000 CP-51	10	10	1.65E+04	4.58E+04	2.87E+04	10	SB-12	12-13
Lead	MG/KG	63	10	10	6.90	269.0	54.52	3	SB-11	3-4
Magnesium	MG/KG	-	10	10	2,480	7,840	4,899	0	SB-09	4.5-5.5
Manganese	MG/KG	1600	10	10	112.0	637.0	323.6	0	SB-11	13-13.5
Mercury	MG/KG	0.18	10	5	0.013	0.690	0.237	2	SB-11	4.5-5
Nickel	MG/KG	30	10	10	11.20	25.60	18.71	0	SB-12	12-13
Potassium	MG/KG	-	10	10	645.0	3,960	2,152	0	SB-12	7-8
Selenium	MG/KG	3.9	10	10	1.20	3.10	2.12	0	SB-12	7-8
Sodium	MG/KG	-	10	10	177.0	5,450	893.4	0	SB-12	12-13
Vanadium	MG/KG	39 CP-51	10	10	20.80	52.30	34.86	3	SB-12	3.5-4
Zinc	MG/KG	109	10	10	30.40	123.0	66.03	2	SB-11	4.5-5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

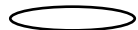
 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4E
BLOCK 2598 LOT 1
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Volatile Organic Compounds										
1,2,4-Trichlorobenzene	MG/KG	3.4 CP-51	43	1	0.002	0.002	0.002	0	SB-10	5-5.5
1,2-Dichloroethene (cis)	MG/KG	0.25	43	3	0.009	1.30	0.447	1	MW-05	20.5-21
2-Butanone	MG/KG	0.12	43	1	0.007	0.007	0.007	0	SB-44	1.5-2
Acetone	MG/KG	0.05	43	23	0.004	0.220	0.047	5	SB-08	10.5-11
Benzene	MG/KG	0.06	43	24	0.001	2,600	260.0	14	SB-44	10-12
Carbon disulfide	MG/KG	2.7 CP-51	43	5	0.005	0.022	0.010	0	SB-17	5.5-6
Chloroform	MG/KG	0.37	43	2	0.020	0.028	0.024	0	SB-08	10.5-11
Cyclohexane	MG/KG	-	43	3	0.038	0.350	0.162	0	SB-08	10.5-11
Ethylbenzene	MG/KG	1	43	20	0.009	2,600	180.2	14	SB-44	10-12
Isopropylbenzene	MG/KG	2.3 CP-51	43	15	0.005	25.00	2.30	2	SB-44	10-12
Methylcyclohexane	MG/KG	-	43	4	0.008	0.550	0.227	0	SB-08	10.5-11
Methylene chloride	MG/KG	0.05	43	3	0.003	0.006	0.004	0	SB-13	3-4
Styrene	MG/KG	300 CP-51	43	12	0.001	1,300	217.1	2	SB-44	10-12
Tetrachloroethene	MG/KG	1.3	43	1	0.013	0.013	0.013	0	SB-07	3-4
Toluene	MG/KG	0.7	43	21	0.001	3,800	348.3	9	SB-44	10-12
Xylene (total)	MG/KG	0.26	43	22	0.006	4,700	369.2	16	SB-44	10-12
Semivolatile Organic Compounds										
1,1'-Biphenyl	MG/KG	60 CP-51	43	28	0.024	1,800	92.56	3	SB-44	15-20

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

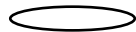
 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4E
BLOCK 2598 LOT 1
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
2,6-Dinitrotoluene	MG/KG	0.17 CP-51	43	1	1.20	1.20	1.20	1	MW-05	20.5-21
2-Methylnaphthalene	MG/KG	0.41 CP-51	43	35	0.049	2.80E+04	1,096	20	SB-44	15-20
2-Methylphenol (o-cresol)	MG/KG	0.33	43	3	0.024	0.077	0.043	0	SB-07	13.3-14.2
3&4-Methylphenol (m,p-cresol)	MG/KG	0.33	43	8	0.027	1,100	137.6	2	SB-43	10-12
3,3'-Dichlorobenzidine	MG/KG	-	43	1	0.680	0.680	0.680	0	MW-05	20.5-21
Acenaphthene	MG/KG	20	43	35	0.023	1,300	76.06	7	SB-44	15-20
Acenaphthylene	MG/KG	100	43	36	0.068	9,900	309.8	3	SB-44	15-20
Acetophenone	MG/KG	-	43	10	0.064	0.560	0.185	0	SB-15	3-3.5
Anthracene	MG/KG	100	43	37	0.026	3,400	185.5	3	SB-44	15-20
Benzaldehyde	MG/KG	-	43	1	0.330	0.330	0.330	0	MW-05	4.5-5
Benzo(a)anthracene	MG/KG	1	43	41	0.023	2,500	115.9	30	SB-43	10-12
Benzo(a)pyrene	MG/KG	1	43	40	0.021	1,200	41.01	29	SB-44	15-20
Benzo(b)fluoranthene	MG/KG	1	43	39	0.032	2,600	99.79	30	SB-43	10-12
Benzo(g,h,i)perylene	MG/KG	100	43	36	0.023	490.0	19.36	1	SB-44	15-20
Benzo(k)fluoranthene	MG/KG	0.8	43	38	0.021	830.0	38.17	28	SB-43	10-12
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	43	23	0.020	2.00	0.223	0	SB-13	15-16
Butylbenzylphthalate	MG/KG	100 CP-51	43	4	0.027	0.160	0.075	0	SB-15	3-3.5
Carbazole	MG/KG	-	43	28	0.021	700.0	29.54	0	SB-43	10-12

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4E
BLOCK 2598 LOT 1
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
Chrysene	MG/KG	1	43	41	0.026	2,000	105.8	30	SB-43	10-12
Dibenz(a,h)anthracene	MG/KG	0.33	43	33	0.022	140.0	5.91	23	SB-44	15-20
Dibenzofuran	MG/KG	7	43	28	0.035	700.0	31.70	4	SB-44	15-20
Di-n-butylphthalate	MG/KG	0.014 CP-51	43	10	0.033	0.260	0.084	10	SB-41	0.5-1
Fluoranthene	MG/KG	100	43	40	0.037	7,800	291.8	6	SB-43	10-12
Fluorene	MG/KG	30	43	33	0.020	4,000	154.5	6	SB-44	15-20
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	43	35	0.025	510.0	19.78	27	SB-44	15-20
Naphthalene	MG/KG	12	43	37	0.065	7.40E+04	3,718	15	SB-44	15-20
Phenanthrene	MG/KG	100	43	40	0.021	1.20E+04	645.6	6	SB-43	10-12
Phenol	MG/KG	0.33	43	4	0.050	350.0	87.57	1	SB-43	10-12
Pyrene	MG/KG	100	43	40	0.047	6,700	331.3	6	SB-43	10-12
Metals										
Aluminum	MG/KG	10000 CP-51	41	41	2,840	1.94E+04	1.03E+04	21	SB-15	6-6.5
Antimony	MG/KG	12 CP-51	41	5	0.440	1.70	1.00	0	SB-44	10-12
Arsenic	MG/KG	13	41	39	0.210	30.90	5.39	3	SB-44	10-12
Barium	MG/KG	350	41	41	31.80	212.0	87.79	0	SB-07	3-4
Beryllium	MG/KG	7.2	41	29	0.071	0.930	0.430	0	SB-07	3-4
Cadmium	MG/KG	2.5	41	38	0.055	3.00	0.413	2	SB-07	3-4

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

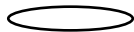
 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4E
BLOCK 2598 LOT 1
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Metals										
Calcium	MG/KG	10000 CP-51	41	41	516.0	6.07E+04	6,698	5	SB-07	3-4
Chromium	MG/KG	30	41	41	6.20	75.70	27.45	13	MW-06	10.5-11
Cobalt	MG/KG	20 CP-51	41	41	2.20	22.20	9.17	2	SB-41	0.5-1
Copper	MG/KG	50	41	41	12.00	425.0	49.29	12	MW-05	4.5-5
Iron	MG/KG	2000 CP-51	41	41	6,550	1.13E+05	2.53E+04	41	SB-16	6-6.5
Lead	MG/KG	63	41	41	2.10	335.0	77.47	17	SB-41	9-11
Magnesium	MG/KG	-	41	41	1,320	8,910	4,384	0	SB-10	11-11.5
Manganese	MG/KG	1600	41	41	57.00	1,230	252.2	0	SB-15	6-6.5
Mercury	MG/KG	0.18	41	23	0.007	4.20	0.700	14	SB-07	3-4
Nickel	MG/KG	30	41	41	9.80	41.10	22.31	6	MW-06	10.5-11
Potassium	MG/KG	-	41	41	503.0	1.09E+04	2,351	0	SB-15	6-6.5
Selenium	MG/KG	3.9	41	31	0.610	5.10	2.08	2	SB-44	10-12
Silver	MG/KG	2	41	3	0.110	0.400	0.227	0	SB-42	18.5-19.5
Sodium	MG/KG	-	41	41	100.0	1,550	348.3	0	SB-10	11-11.5
Thallium	MG/KG	5 CP-51	41	6	0.340	1.70	1.21	0	SB-07	4.5-5.5
Vanadium	MG/KG	39 CP-51	41	41	9.10	66.10	34.43	12	MW-06	10.5-11
Zinc	MG/KG	109	41	41	33.20	278.0	88.89	10	MW-05	4.5-5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.



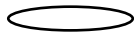
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4F
BLOCK 2597 LOT 1
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Volatile Organic Compounds										
Acetone	MG/KG	0.05	15	8	0.005	0.240	0.044	1	SB-19	5-5.5
Carbon disulfide	MG/KG	2.7 CP-51	15	3	0.003	0.019	0.008	0	SB-19	5-5.5
Isopropylbenzene	MG/KG	2.3 CP-51	15	2	0.031	0.065	0.048	0	SB-19	5-5.5
Methylcyclohexane	MG/KG	-	15	1	0.044	0.044	0.044	0	SB-19	5-5.5
Methylene chloride	MG/KG	0.05	15	3	0.004	0.018	0.010	0	MW-07-URS	9.8-10.5
Xylene (total)	MG/KG	0.26	15	1	0.013	0.013	0.013	0	SB-19	5-5.5
Semivolatile Organic Compounds										
1,1'-Biphenyl	MG/KG	60 CP-51	15	2	0.130	32.00	16.07	0	SB-21	10-11
2-Chloronaphthalene	MG/KG	-	15	7	1.30	1.40	1.34	0	SB-20	3-3.5
2-Methylnaphthalene	MG/KG	0.41 CP-51	15	3	0.092	1.00	0.434	1	SB-18	5.5-6
Acenaphthene	MG/KG	20	15	3	0.170	120.0	40.20	1	SB-21	10-11
Acenaphthylene	MG/KG	100	15	9	0.022	22.00	3.24	0	SB-21	10-11
Anthracene	MG/KG	100	15	11	0.045	60.00	6.14	0	SB-21	10-11
Benzo(a)anthracene	MG/KG	1	15	15	0.021	39.00	3.15	3	SB-21	10-11
Benzo(a)pyrene	MG/KG	1	15	14	0.023	28.00	2.64	3	SB-21	10-11
Benzo(b)fluoranthene	MG/KG	1	15	12	0.120	18.00	2.33	3	SB-21	10-11
Benzo(g,h,i)perylene	MG/KG	100	15	12	0.024	12.00	1.58	0	SB-21	10-11
Benzo(k)fluoranthene	MG/KG	0.8	15	12	0.096	11.00	1.47	3	SB-21	10-11
bis(2-Ethylhexyl)phthalate	MG/KG	50 CP-51	15	12	0.030	0.220	0.101	0	SB-18	4-4.5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4F
BLOCK 2597 LOT 1
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
Butylbenzylphthalate	MG/KG	100 CP-51	15	1	0.019	0.019	0.019	0	SB-18	4-4.5
Carbazole	MG/KG	-	15	2	0.022	0.230	0.126	0	SB-21	3.5-4
Chrysene	MG/KG	1	15	14	0.032	37.00	3.15	4	SB-21	10-11
Dibenz(a,h)anthracene	MG/KG	0.33	15	9	0.036	1.40	0.271	2	SB-18	5.5-6
Dibenzofuran	MG/KG	7	15	3	0.140	6.40	2.34	0	SB-21	10-11
Di-n-butylphthalate	MG/KG	0.014 CP-51	15	7	0.087	0.150	0.110	7	SB-21	3.5-4
Di-n-octylphthalate	MG/KG	100 CP-51	15	1	0.042	0.042	0.042	0	SB-18	4-4.5
Fluoranthene	MG/KG	100	15	14	0.019	62.00	5.08	0	SB-21	10-11
Fluorene	MG/KG	30	15	4	0.200	62.00	16.52	1	SB-21	10-11
Indeno(1,2,3-cd)pyrene	MG/KG	0.5	15	12	0.021	8.20	1.14	3	SB-21	10-11
Naphthalene	MG/KG	12	15	4	0.065	32.00	8.07	1	SB-21	10-11
Phenanthrene	MG/KG	100	15	14	0.022	190.0	13.99	1	SB-21	10-11
Pyrene	MG/KG	100	15	15	0.023	99.00	7.48	0	SB-21	10-11
Metals										
Aluminum	MG/KG	10000 CP-51	15	15	4,080	2.86E+04	1.25E+04	9	SB-18	8.5-9
Antimony	MG/KG	12 CP-51	15	1	4.00	4.00	4.00	0	SB-21	3.5-4
Arsenic	MG/KG	13	15	9	1.50	9.60	3.82	0	SB-21	3.5-4
Barium	MG/KG	350	15	15	48.10	353.0	108.5	1	SB-18	8.5-9
Beryllium	MG/KG	7.2	15	10	0.098	2.00	0.770	0	SB-21	21-22

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

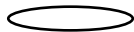
 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4F
BLOCK 2597 LOT 1
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - UNRESTRICTED USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Metals										
Cadmium	MG/KG	2.5	15	9	0.016	0.870	0.343	0	SB-21	3.5-4
Calcium	MG/KG	10000 CP-51	15	15	1,660	3.22E+04	7,460	5	SB-21	3.5-4
Chromium	MG/KG	30	15	15	11.90	177.0	41.53	5	SB-18	8.5-9
Cobalt	MG/KG	20 CP-51	15	15	3.10	20.90	9.05	1	SB-18	8.5-9
Copper	MG/KG	50	15	15	16.40	89.20	41.58	5	MW-07-URS	9.8-10.5
Iron	MG/KG	2000 CP-51	15	15	1.70E+04	5.54E+04	2.93E+04	15	SB-21	3.5-4
Lead	MG/KG	63	15	15	1.50	132.0	24.73	1	SB-21	3.5-4
Magnesium	MG/KG	-	15	15	2,530	1.82E+04	8,640	0	SB-18	8.5-9
Manganese	MG/KG	1600	15	15	174.0	515.0	265.1	0	SB-21	21-22
Mercury	MG/KG	0.18	15	12	0.009	0.130	0.051	0	SB-21	3.5-4
Nickel	MG/KG	30	15	15	6.80	71.80	25.94	4	SB-18	8.5-9
Potassium	MG/KG	-	15	15	1,190	1.65E+04	5,846	0	SB-18	8.5-9
Selenium	MG/KG	3.9	15	5	1.40	2.30	1.80	0	SB-19	3-4
Sodium	MG/KG	-	15	15	112.0	2,840	504.4	0	SB-21	21-22
Thallium	MG/KG	5 CP-51	15	9	0.330	1.20	0.766	0	SB-20	4.5-5
Vanadium	MG/KG	39 CP-51	15	15	25.50	127.0	53.01	9	SB-18	8.5-9
Zinc	MG/KG	109	15	15	35.20	165.0	79.89	3	SB-20	4.5-5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.



Concentration Exceeds Criteria

Only Detected Results Reported.

**TABLE 4-5A
BLOCK 2592 LOT 35
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE**

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Volatile Organic Compounds										
Acetone	MG/KG	500	6	4	0.004	0.061	0.023	0	MW-03	6-7
Benzene	MG/KG	44	6	1	0.310	0.310	0.310	0	MW-03	6-7
Carbon disulfide	MG/KG	-	6	1	0.015	0.015	0.015	0	MW-03	6-7
Ethylbenzene	MG/KG	390	6	1	0.036	0.036	0.036	0	MW-03	6-7
Isopropylbenzene	MG/KG	-	6	1	2.40	2.40	2.40	0	MW-03	6-7
Methyl acetate	MG/KG	-	6	2	0.006	0.006	0.006	0	SB-06	3-4
Methylcyclohexane	MG/KG	-	6	1	1.00	1.00	1.00	0	MW-03	6-7
Methylene chloride	MG/KG	500	6	1	0.001	0.001	0.001	0	SB-06	3-4
Tetrachloroethene	MG/KG	150	6	1	0.020	0.020	0.020	0	MW-03	6-7
Toluene	MG/KG	500	6	2	0.001	0.024	0.013	0	MW-03	6-7
Xylene (total)	MG/KG	500	6	1	0.290	0.290	0.290	0	MW-03	6-7
Semivolatile Organic Compounds										
2-Methylnaphthalene	MG/KG	-	6	1	14.00	14.00	14.00	0	MW-03	6-7
Acenaphthene	MG/KG	500	6	2	0.027	1.00	0.514	0	MW-03	6-7
Acenaphthylene	MG/KG	500	6	2	0.048	0.120	0.084	0	MW-03	3.5-4.5
Anthracene	MG/KG	500	6	3	0.047	1.70	0.636	0	MW-03	6-7
Benzo(a)anthracene	MG/KG	5.6	6	5	0.071	1.90	0.538	0	MW-03	6-7
Benzo(a)pyrene	MG/KG	1	6	5	0.046	1.50	0.419	1	MW-03	6-7
Benzo(b)fluoranthene	MG/KG	5.6	6	5	0.066	1.80	0.495	0	MW-03	6-7

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

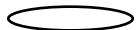
 Concentration Exceeds Criteria

TABLE 4-5A
BLOCK 2592 LOT 35
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
Benzo(g,h,i)perylene	MG/KG	500	6	5	0.050	0.880	0.291	0	MW-03	6-7
Benzo(k)fluoranthene	MG/KG	56	6	5	0.030	0.900	0.246	0	MW-03	6-7
bis(2-Ethylhexyl)phthalate	MG/KG	-	6	6	0.033	1.10	0.255	0	MW-03	6-7
Carbazole	MG/KG	-	6	1	0.042	0.042	0.042	0	SB-06	3-4
Chrysene	MG/KG	56	6	5	0.065	3.10	0.763	0	MW-03	6-7
Dibenz(a,h)anthracene	MG/KG	0.56	6	2	0.034	0.040	0.037	0	MW-03	3.5-4.5
Dibenzofuran	MG/KG	350	6	1	0.023	0.023	0.023	0	SB-06	3-4
Di-n-butylphthalate	MG/KG	-	6	2	0.021	1.60	0.811	0	MW-03	6-7
Fluoranthene	MG/KG	500	6	5	0.140	4.00	1.14	0	MW-03	6-7
Fluorene	MG/KG	500	6	2	0.042	4.00	2.02	0	MW-03	6-7
Indeno(1,2,3-cd)pyrene	MG/KG	5.6	6	5	0.037	0.640	0.205	0	MW-03	6-7
Naphthalene	MG/KG	500	6	1	0.021	0.021	0.021	0	MW-03	3.5-4.5
Phenanthrene	MG/KG	500	6	5	0.024	10.00	2.13	0	MW-03	6-7
Pyrene	MG/KG	500	6	5	0.140	7.00	1.70	0	MW-03	6-7
Metals										
Aluminum	MG/KG	-	6	6	8,650	1.19E+04	9,717	0	SB-06	4.5-5.5
Arsenic	MG/KG	16	6	5	0.780	2.10	1.50	0	MW-03	3.5-4.5
Barium	MG/KG	400	6	6	53.80	91.90	75.53	0	SB-06	3-4
Beryllium	MG/KG	590	6	6	0.840	1.40	1.05	0	MW-03	14-15

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



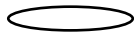
Concentration Exceeds Criteria

Only Detected Results Reported.

**TABLE 4-5A
BLOCK 2592 LOT 35
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE**

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Metals										
Cadmium	MG/KG	9.3	6	6	0.088	0.340	0.233	0	MW-03	3.5-4.5
Calcium	MG/KG	-	6	6	2,430	4,580	3,723	0	SB-06	4.5-5.5
Chromium	MG/KG	1500	6	6	22.30	34.40	27.33	0	MW-03	6-7
Cobalt	MG/KG	-	6	6	7.40	12.20	10.28	0	MW-03	14-15
Copper	MG/KG	270	6	6	30.90	51.70	38.42	0	MW-03	6-7
Iron	MG/KG	-	6	6	1.90E+04	2.64E+04	2.28E+04	0	SB-06	4.5-5.5
Lead	MG/KG	1000	6	6	5.00	41.30	17.33	0	MW-03	3.5-4.5
Magnesium	MG/KG	-	6	6	4,100	6,930	5,562	0	SB-06	4.5-5.5
Manganese	MG/KG	10000	6	6	134.0	311.0	241.8	0	SB-06	4.5-5.5
Mercury	MG/KG	2.8	6	4	0.021	0.190	0.099	0	SB-06	3-4
Nickel	MG/KG	310	6	6	19.10	23.60	21.65	0	SB-06	4.5-5.5
Potassium	MG/KG	-	6	6	2,000	3,660	3,045	0	SB-06	3-4
Selenium	MG/KG	1500	6	6	1.90	3.40	2.82	0	SB-06	4.5-5.5
Silver	MG/KG	1500	6	3	0.070	0.110	0.091	0	MW-03	6-7
Sodium	MG/KG	-	6	6	123.0	291.0	185.5	0	MW-03	6-7
Thallium	MG/KG	-	6	4	1.30	2.30	1.83	0	SB-06	4.5-5.5
Vanadium	MG/KG	-	6	6	27.70	35.90	31.03	0	SB-06	4.5-5.5
Zinc	MG/KG	10000	6	6	50.30	213.0	99.75	0	MW-03	6-7

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



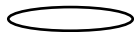
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-5B
BLOCK 2598 LOT 62
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Volatile Organic Compounds										
Acetone	MG/KG	500	3	3	0.007	0.020	0.013	0	MW-04	3.5-4.5
Isopropylbenzene	MG/KG	-	3	2	0.100	0.160	0.130	0	MW-04	3.5-4.5
Methylcyclohexane	MG/KG	-	3	2	0.170	0.280	0.225	0	MW-04	3.5-4.5
Styrene	MG/KG	-	3	1	0.017	0.017	0.017	0	MW-04	3.5-4.5
Xylene (total)	MG/KG	500	3	1	0.006	0.006	0.006	0	MW-04	3.5-4.5
Semivolatile Organic Compounds										
2-Methylnaphthalene	MG/KG	-	3	2	9.20	10.00	9.60	0	MW-04	3.5-4.5
Acenaphthene	MG/KG	500	3	1	0.430	0.430	0.430	0	MW-04	3.5-4.5
Acenaphthylene	MG/KG	500	3	1	0.310	0.310	0.310	0	MW-04	3.5-4.5
Anthracene	MG/KG	500	3	2	0.170	0.430	0.300	0	MW-04	3.5-4.5
Benzo(a)anthracene	MG/KG	5.6	3	2	0.140	0.220	0.180	0	MW-04	3.5-4.5
Benzo(a)pyrene	MG/KG	1	3	2	0.100	0.130	0.115	0	MW-04	3.5-4.5
Benzo(b)fluoranthene	MG/KG	5.6	3	2	0.140	0.160	0.150	0	MW-04	3.5-4.5
Benzo(g,h,i)perylene	MG/KG	500	3	2	0.099	0.220	0.160	0	MW-04	3.5-4.5
Benzo(k)fluoranthene	MG/KG	56	3	2	0.060	0.066	0.063	0	MW-04	3.5-4.5
bis(2-Ethylhexyl)phthalate	MG/KG	-	3	2	0.044	0.052	0.048	0	MW-04	3.5-4.5
Chrysene	MG/KG	56	3	2	0.150	0.220	0.185	0	MW-04	3.5-4.5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



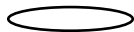
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-5B
BLOCK 2598 LOT 62
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
Dibenz(a,h)anthracene	MG/KG	0.56	3	1	0.026	0.026	0.026	0	MW-04	3.5-4.5
Dibenzofuran	MG/KG	350	3	1	0.310	0.310	0.310	0	MW-04	3.5-4.5
Di-n-butylphthalate	MG/KG	-	3	1	0.110	0.110	0.110	0	MW-04	3.5-4.5
Fluoranthene	MG/KG	500	3	2	0.300	0.460	0.380	0	MW-04	3.5-4.5
Fluorene	MG/KG	500	3	1	0.770	0.770	0.770	0	MW-04	3.5-4.5
Indeno(1,2,3-cd)pyrene	MG/KG	5.6	3	2	0.073	0.130	0.102	0	MW-04	3.5-4.5
Naphthalene	MG/KG	500	3	2	0.540	0.560	0.550	0	MW-04	3.5-4.5
Phenanthrene	MG/KG	500	3	2	3.80	4.70	4.25	0	MW-04	3.5-4.5
Pyrene	MG/KG	500	3	2	1.00	1.30	1.15	0	MW-04	3.5-4.5
Metals										
Aluminum	MG/KG	-	3	3	8,120	1.15E+04	9,510	0	MW-04	3.5-4.5
Arsenic	MG/KG	16	3	2	1.40	2.20	1.80	0	MW-04	3.5-4.5
Barium	MG/KG	400	3	3	46.00	83.60	67.00	0	MW-04	3.5-4.5
Beryllium	MG/KG	590	3	3	0.650	1.20	0.917	0	MW-04	3.5-4.5
Cadmium	MG/KG	9.3	3	3	0.045	0.330	0.154	0	MW-04	3.5-4.5
Calcium	MG/KG	-	3	3	1,450	1.45E+04	7,617	0	MW-04	3.5-4.5
Chromium	MG/KG	1500	3	3	14.20	27.00	21.27	0	MW-04	3.5-4.5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



Concentration Exceeds Criteria

Only Detected Results Reported.

**TABLE 4-5B
BLOCK 2598 LOT 62
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE**

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Metals										
Cobalt	MG/KG	-	3	3	6.30	12.30	9.40	0	MW-04	3.5-4.5
Copper	MG/KG	270	3	3	9.20	35.60	24.00	0	MW-04	3.5-4.5
Iron	MG/KG	-	3	3	1.97E+04	2.53E+04	2.24E+04	0	MW-04	3.5-4.5
Lead	MG/KG	1000	3	3	4.90	11.60	8.10	0	MW-04	3.5-4.5
Magnesium	MG/KG	-	3	3	2,800	1.12E+04	6,893	0	MW-04	3.5-4.5
Manganese	MG/KG	10000	3	3	213.0	232.0	219.3	0	MW-04	3.5-4.5
Mercury	MG/KG	2.8	3	1	0.013	0.013	0.013	0	MW-04	3.5-4.5
Nickel	MG/KG	310	3	3	11.50	21.20	16.67	0	MW-04	3.5-4.5
Potassium	MG/KG	-	3	3	828.0	3,060	2,029	0	MW-04	3.5-4.5
Selenium	MG/KG	1500	3	3	1.50	3.70	2.60	0	MW-04	3.5-4.5
Silver	MG/KG	1500	3	2	0.087	0.120	0.104	0	MW-04	3.5-4.5
Sodium	MG/KG	-	3	3	53.00	126.0	99.00	0	MW-04	3.5-4.5
Thallium	MG/KG	-	3	1	1.70	1.70	1.70	0	MW-04	3.5-4.5
Vanadium	MG/KG	-	3	3	16.10	35.10	27.50	0	MW-04	3.5-4.5
Zinc	MG/KG	10000	3	3	28.50	52.40	40.30	0	MW-04	3.5-4.5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-5C
BLOCK 2591 LOT 46
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Volatile Organic Compounds										
1,2-Dichlorobenzene	MG/KG	500	53	2	0.001	0.008	0.005	0	SB-37	8.2-9
2-Butanone	MG/KG	500	53	5	0.003	0.007	0.005	0	SB-32	9-10
Acetone	MG/KG	500	53	37	0.004	0.110	0.021	0	SB-37	8.2-9
Benzene	MG/KG	44	53	16	0.002	0.320	0.048	0	MW-01	11-12
Carbon disulfide	MG/KG	-	53	18	0.001	0.041	0.010	0	SB-38	15.5-16.5
Chloroform	MG/KG	350	53	1	0.110	0.110	0.110	0	SB-37	8.5-9
Cyclohexane	MG/KG	-	53	7	0.004	2.00	0.434	0	SB-37	8.5-9
Ethylbenzene	MG/KG	390	53	8	0.002	8.60	1.48	0	SB-37	8.2-9
Isopropylbenzene	MG/KG	-	53	10	0.005	1.20	0.363	0	SB-39	6.7-7.7
Methyl tert-butyl ether	MG/KG	500	53	1	0.002	0.002	0.002	0	SB-38	15.5-16.5
Methylcyclohexane	MG/KG	-	53	9	0.004	2.20	0.695	0	SB-39	6.7-7.7
Methylene chloride	MG/KG	500	53	4	0.002	0.002	0.002	0	SB-39	14-15
Styrene	MG/KG	-	53	1	0.048	0.048	0.048	0	SB-38	7.8-8.5
Toluene	MG/KG	500	53	12	0.001	0.390	0.045	0	MW-01	11-12
Xylene (total)	MG/KG	500	53	11	0.003	4.60	0.590	0	SB-37	8.2-9
Semivolatile Organic Compounds										
1,1'-Biphenyl	MG/KG	-	53	16	0.025	54.00	6.29	0	SB-38	7.8-8.5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



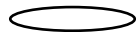
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-5C
BLOCK 2591 LOT 46
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
2,4-Dimethylphenol	MG/KG	-	53	5	0.190	1.80	0.670	0	SB-05	6.5-7
2-Methylnaphthalene	MG/KG	-	53	25	0.027	520.0	33.60	0	SB-38	7.8-8.5
2-Methylphenol (o-cresol)	MG/KG	500	53	7	0.021	1.10	0.288	0	SB-05	6.5-7
3&4-Methylphenol (m,p-cresol)	MG/KG	500	53	11	0.025	3.20	0.523	0	SB-05	6.5-7
Acenaphthene	MG/KG	500	53	32	0.020	250.0	11.66	0	SB-05	6.5-7
Acenaphthylene	MG/KG	500	53	28	0.034	29.00	3.97	0	SB-38	7.8-8.5
Acetophenone	MG/KG	-	53	10	0.023	24.00	2.53	0	SB-38	7.8-8.5
Anthracene	MG/KG	500	53	38	0.021	140.0	8.82	0	SB-05	6.5-7
Benzo(a)anthracene	MG/KG	5.6	53	43	0.031	390.0	17.29	9	SB-05	6.5-7
Benzo(a)pyrene	MG/KG	1	53	41	0.042	290.0	12.95	18	SB-05	6.5-7
Benzo(b)fluoranthene	MG/KG	5.6	53	40	0.069	370.0	17.87	10	SB-05	6.5-7
Benzo(g,h,i)perylene	MG/KG	500	53	36	0.056	160.0	9.67	0	SB-05	6.5-7
Benzo(k)fluoranthene	MG/KG	56	53	40	0.034	27.00	3.14	0	SB-05	6.5-7
bis(2-Ethylhexyl)phthalate	MG/KG	-	53	26	0.026	0.550	0.136	0	SB-33	10.5-11
Butylbenzylphthalate	MG/KG	-	53	1	0.076	0.076	0.076	0	SB-33	10.5-11
Carbazole	MG/KG	-	53	21	0.031	96.00	6.98	0	SB-05	6.5-7
Chrysene	MG/KG	56	53	42	0.026	390.0	17.56	2	SB-05	6.5-7

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



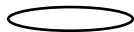
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-5C
BLOCK 2591 LOT 46
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
Dibenz(a,h)anthracene	MG/KG	0.56	53	35	0.019	27.00	2.44	12	SB-05	6.5-7
Dibenzofuran	MG/KG	350	53	26	0.023	170.0	10.67	0	SB-05	6.5-7
Di-n-butylphthalate	MG/KG	-	53	6	0.024	0.230	0.074	0	SB-32	3-4
Fluoranthene	MG/KG	500	53	46	0.020	1,100	36.85	1	SB-05	6.5-7
Fluorene	MG/KG	500	53	34	0.032	170.0	11.95	0	SB-05	6.5-7
Indeno(1,2,3-cd)pyrene	MG/KG	5.6	53	37	0.040	140.0	7.96	7	SB-05	6.5-7
Naphthalene	MG/KG	500	53	35	0.021	1,100	53.17	1	SB-38	7.8-8.5
Phenanthrene	MG/KG	500	53	43	0.041	1,200	50.28	1	SB-05	6.5-7
Phenol	MG/KG	500	53	8	0.020	1.10	0.341	0	SB-05	6.5-7
Pyrene	MG/KG	500	53	43	0.048	830.0	35.94	1	SB-05	6.5-7
Metals										
Aluminum	MG/KG	-	53	53	1,330	1.67E+04	9,139	0	SB-32	13-14
Antimony	MG/KG	-	53	30	0.370	3.20	1.03	0	SB-38	7.8-8.5
Arsenic	MG/KG	16	53	51	1.20	32.70	5.42	1	SB-38	7.8-8.5
Barium	MG/KG	400	53	53	21.80	720.0	92.03	1	SB-33	3.5-4
Beryllium	MG/KG	590	53	52	0.039	1.50	0.576	0	SB-02	4.7-5.3
Cadmium	MG/KG	9.3	53	52	0.096	2.70	0.710	0	SB-38	7.8-8.5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-5C
BLOCK 2591 LOT 46
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Metals										
Calcium	MG/KG	-	53	53	567.0	1.56E+05	1.39E+04	0	MW-01	4.5-5
Chromium	MG/KG	1500	53	53	6.80	63.20	22.68	0	SB-32	9-10
Cobalt	MG/KG	-	53	53	1.50	18.20	8.12	0	SB-05	11.5-12
Copper	MG/KG	270	53	53	8.30	319.0	45.70	1	SB-38	7.8-8.5
Iron	MG/KG	-	53	53	6,900	6.22E+04	2.31E+04	0	SB-38	7.8-8.5
Lead	MG/KG	1000	53	53	3.30	1,330	132.2	2	SB-33	3.5-4
Magnesium	MG/KG	-	53	53	412.0	2.99E+04	5,601	0	SB-35	9.5-10
Manganese	MG/KG	10000	53	53	22.60	1,150	288.5	0	SB-05	6.5-7
Mercury	MG/KG	2.8	53	48	0.007	4.10	0.390	1	SB-04	2.5-3.5
Nickel	MG/KG	310	53	53	6.00	35.00	18.33	0	SB-32	9-10
Potassium	MG/KG	-	53	53	412.0	6,460	2,052	0	SB-38	11-11.5
Selenium	MG/KG	1500	53	35	0.600	4.20	1.68	0	SB-38	7.8-8.5
Silver	MG/KG	1500	53	14	0.073	0.370	0.158	0	SB-36	6.5-7
Sodium	MG/KG	-	53	53	74.20	4,680	1,055	0	SB-38	15.5-16.5
Thallium	MG/KG	-	53	24	0.270	4.50	1.15	0	SB-05	6.5-7
Vanadium	MG/KG	-	53	53	8.60	45.80	27.87	0	SB-38	11-11.5
Zinc	MG/KG	10000	53	53	18.90	556.0	116.1	0	SB-37	3-4

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



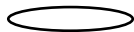
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-5D
BLOCK 2590 LOT 51
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Volatile Organic Compounds										
Acetone	MG/KG	500	10	7	0.009	0.036	0.015	0	SB-11	4.5-5
Carbon disulfide	MG/KG	-	10	1	0.004	0.004	0.004	0	SB-12	12-13
Isopropylbenzene	MG/KG	-	10	1	0.005	0.005	0.005	0	SB-12	7-8
Semivolatile Organic Compounds										
2-Methylnaphthalene	MG/KG	-	10	6	0.020	2.50	0.479	0	SB-11	4.5-5
Acenaphthene	MG/KG	500	10	5	0.023	0.140	0.067	0	SB-09	4.5-5.5
Acenaphthylene	MG/KG	500	10	5	0.021	1.50	0.682	0	SB-11	4.5-5
Acetophenone	MG/KG	-	10	3	0.045	0.360	0.212	0	SB-11	4.5-5
Anthracene	MG/KG	500	10	4	0.042	0.710	0.423	0	SB-11	3-4
Benzaldehyde	MG/KG	-	10	1	0.040	0.040	0.040	0	SB-12	3.5-4
Benzo(a)anthracene	MG/KG	5.6	10	6	0.031	3.00	1.12	0	SB-11	3-4
Benzo(a)pyrene	MG/KG	1	10	6	0.027	2.40	0.872	3	SB-11	3-4
Benzo(b)fluoranthene	MG/KG	5.6	10	6	0.032	4.40	1.52	0	SB-11	3-4
Benzo(g,h,i)perylene	MG/KG	500	10	5	0.040	3.10	1.31	0	SB-11	3-4
Benzo(k)fluoranthene	MG/KG	56	10	5	0.026	2.60	1.30	0	SB-11	4.5-5
bis(2-Ethylhexyl)phthalate	MG/KG	-	10	9	0.022	2.70	0.389	0	SB-11	4.5-5
Butylbenzylphthalate	MG/KG	-	10	1	0.040	0.040	0.040	0	SB-11	4.5-5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



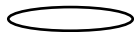
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-5D
BLOCK 2590 LOT 51
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
Carbazole	MG/KG	-	10	3	0.069	0.087	0.079	0	SB-11	4.5-5
Chrysene	MG/KG	56	10	6	0.022	3.70	1.39	0	SB-11	3-4
Dibenz(a,h)anthracene	MG/KG	0.56	10	4	0.120	0.860	0.478	2	SB-11	3-4
Dibenzofuran	MG/KG	350	10	3	0.047	0.160	0.088	0	SB-11	4.5-5
Di-n-octylphthalate	MG/KG	-	10	1	0.032	0.032	0.032	0	SB-11	3-4
Fluoranthene	MG/KG	500	10	7	0.027	5.20	1.55	0	SB-11	3-4
Fluorene	MG/KG	500	10	3	0.120	0.340	0.203	0	SB-11	4.5-5
Indeno(1,2,3-cd)pyrene	MG/KG	5.6	10	5	0.045	2.50	1.10	0	SB-11	3-4
Naphthalene	MG/KG	500	10	7	0.026	3.40	0.636	0	SB-11	4.5-5
Phenanthrene	MG/KG	500	10	4	0.024	2.70	1.33	0	SB-11	4.5-5
Pyrene	MG/KG	500	10	7	0.031	7.10	2.12	0	SB-11	3-4
Metals										
Aluminum	MG/KG	-	10	10	4,960	1.73E+04	1.13E+04	0	SB-12	3.5-4
Arsenic	MG/KG	16	10	9	0.790	10.40	4.02	0	SB-12	12-13
Barium	MG/KG	400	10	10	31.50	141.0	77.22	0	SB-12	4.5-5.5
Beryllium	MG/KG	590	10	5	0.300	0.750	0.432	0	SB-12	12-13
Cadmium	MG/KG	9.3	10	10	0.054	0.660	0.236	0	SB-11	4.5-5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



Concentration Exceeds Criteria

Only Detected Results Reported.

**TABLE 4-5D
BLOCK 2590 LOT 51
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE**

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Metals										
Calcium	MG/KG	-	10	10	896.0	1.34E+04	3,155	0	SB-09	4.5-5.5
Chromium	MG/KG	1500	10	10	12.50	37.80	24.76	0	SB-12	3.5-4
Cobalt	MG/KG	-	10	10	4.70	12.90	8.08	0	SB-12	7-8
Copper	MG/KG	270	10	10	8.90	75.10	32.36	0	SB-11	4.5-5
Iron	MG/KG	-	10	10	1.65E+04	4.58E+04	2.87E+04	0	SB-12	12-13
Lead	MG/KG	1000	10	10	6.90	269.0	54.52	0	SB-11	3-4
Magnesium	MG/KG	-	10	10	2,480	7,840	4,899	0	SB-09	4.5-5.5
Manganese	MG/KG	10000	10	10	112.0	637.0	323.6	0	SB-11	13-13.5
Mercury	MG/KG	2.8	10	5	0.013	0.690	0.237	0	SB-11	4.5-5
Nickel	MG/KG	310	10	10	11.20	25.60	18.71	0	SB-12	12-13
Potassium	MG/KG	-	10	10	645.0	3,960	2,152	0	SB-12	7-8
Selenium	MG/KG	1500	10	10	1.20	3.10	2.12	0	SB-12	7-8
Sodium	MG/KG	-	10	10	177.0	5,450	893.4	0	SB-12	12-13
Vanadium	MG/KG	-	10	10	20.80	52.30	34.86	0	SB-12	3.5-4
Zinc	MG/KG	10000	10	10	30.40	123.0	66.03	0	SB-11	4.5-5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



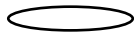
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-5E
BLOCK 2598 LOT 1
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Volatile Organic Compounds										
1,2,4-Trichlorobenzene	MG/KG	-	43	1	0.002	0.002	0.002	0	SB-10	5-5.5
1,2-Dichloroethene (cis)	MG/KG	500	43	3	0.009	1.30	0.447	0	MW-05	20.5-21
2-Butanone	MG/KG	500	43	1	0.007	0.007	0.007	0	SB-44	1.5-2
Acetone	MG/KG	500	43	23	0.004	0.220	0.047	0	SB-08	10.5-11
Benzene	MG/KG	44	43	24	0.001	2,600	260.0	3	SB-44	10-12
Carbon disulfide	MG/KG	-	43	5	0.005	0.022	0.010	0	SB-17	5.5-6
Chloroform	MG/KG	350	43	2	0.020	0.028	0.024	0	SB-08	10.5-11
Cyclohexane	MG/KG	-	43	3	0.038	0.350	0.162	0	SB-08	10.5-11
Ethylbenzene	MG/KG	390	43	20	0.009	2,600	180.2	2	SB-44	10-12
Isopropylbenzene	MG/KG	-	43	15	0.005	25.00	2.30	0	SB-44	10-12
Methylcyclohexane	MG/KG	-	43	4	0.008	0.550	0.227	0	SB-08	10.5-11
Methylene chloride	MG/KG	500	43	3	0.003	0.006	0.004	0	SB-13	3-4
Styrene	MG/KG	-	43	12	0.001	1,300	217.1	0	SB-44	10-12
Tetrachloroethene	MG/KG	150	43	1	0.013	0.013	0.013	0	SB-07	3-4
Toluene	MG/KG	500	43	21	0.001	3,800	348.3	3	SB-44	10-12
Xylene (total)	MG/KG	500	43	22	0.006	4,700	369.2	3	SB-44	10-12
Semivolatile Organic Compounds										
1,1'-Biphenyl	MG/KG	-	43	28	0.024	1,800	92.56	0	SB-44	15-20

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

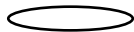


Concentration Exceeds Criteria

TABLE 4-5E
BLOCK 2598 LOT 1
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
2,6-Dinitrotoluene	MG/KG	-	43	1	1.20	1.20	1.20	0	MW-05	20.5-21
2-Methylnaphthalene	MG/KG	-	43	35	0.049	2.80E+04	1,096	0	SB-44	15-20
2-Methylphenol (o-cresol)	MG/KG	500	43	3	0.024	0.077	0.043	0	SB-07	13.3-14.2
3&4-Methylphenol (m,p-cresol)	MG/KG	500	43	8	0.027	1,100	137.6	1	SB-43	10-12
3,3'-Dichlorobenzidine	MG/KG	-	43	1	0.680	0.680	0.680	0	MW-05	20.5-21
Acenaphthene	MG/KG	500	43	35	0.023	1,300	76.06	2	SB-44	15-20
Acenaphthylene	MG/KG	500	43	36	0.068	9,900	309.8	2	SB-44	15-20
Acetophenone	MG/KG	-	43	10	0.064	0.560	0.185	0	SB-15	3-3.5
Anthracene	MG/KG	500	43	37	0.026	3,400	185.5	2	SB-44	15-20
Benzaldehyde	MG/KG	-	43	1	0.330	0.330	0.330	0	MW-05	4.5-5
Benzo(a)anthracene	MG/KG	5.6	43	41	0.023	2,500	115.9	17	SB-43	10-12
Benzo(a)pyrene	MG/KG	1	43	40	0.021	1,200	41.01	29	SB-44	15-20
Benzo(b)fluoranthene	MG/KG	5.6	43	39	0.032	2,600	99.79	15	SB-43	10-12
Benzo(g,h,i)perylene	MG/KG	500	43	36	0.023	490.0	19.36	0	SB-44	15-20
Benzo(k)fluoranthene	MG/KG	56	43	38	0.021	830.0	38.17	2	SB-43	10-12
bis(2-Ethylhexyl)phthalate	MG/KG	-	43	23	0.020	2.00	0.223	0	SB-13	15-16
Butylbenzylphthalate	MG/KG	-	43	4	0.027	0.160	0.075	0	SB-15	3-3.5
Carbazole	MG/KG	-	43	28	0.021	700.0	29.54	0	SB-43	10-12

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



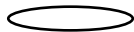
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-5E
BLOCK 2598 LOT 1
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
Chrysene	MG/KG	56	43	41	0.026	2,000	105.8	5	SB-43	10-12
Dibenz(a,h)anthracene	MG/KG	0.56	43	33	0.022	140.0	5.91	17	SB-44	15-20
Dibenzofuran	MG/KG	350	43	28	0.035	700.0	31.70	1	SB-44	15-20
Di-n-butylphthalate	MG/KG	-	43	10	0.033	0.260	0.084	0	SB-41	0.5-1
Fluoranthene	MG/KG	500	43	40	0.037	7,800	291.8	2	SB-43	10-12
Fluorene	MG/KG	500	43	33	0.020	4,000	154.5	2	SB-44	15-20
Indeno(1,2,3-cd)pyrene	MG/KG	5.6	43	35	0.025	510.0	19.78	9	SB-44	15-20
Naphthalene	MG/KG	500	43	37	0.065	7.40E+04	3,718	7	SB-44	15-20
Phenanthrene	MG/KG	500	43	40	0.021	1.20E+04	645.6	3	SB-43	10-12
Phenol	MG/KG	500	43	4	0.050	350.0	87.57	0	SB-43	10-12
Pyrene	MG/KG	500	43	40	0.047	6,700	331.3	3	SB-43	10-12
Metals										
Aluminum	MG/KG	-	41	41	2,840	1.94E+04	1.03E+04	0	SB-15	6-6.5
Antimony	MG/KG	-	41	5	0.440	1.70	1.00	0	SB-42	10-12
Arsenic	MG/KG	16	41	39	0.210	30.90	5.39	2	SB-44	10-12
Barium	MG/KG	400	41	41	31.80	212.0	87.79	0	SB-07	3-4
Beryllium	MG/KG	590	41	29	0.071	0.930	0.430	0	SB-07	3-4
Cadmium	MG/KG	9.3	41	38	0.055	3.00	0.413	0	SB-07	3-4

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



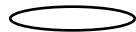
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-5E
BLOCK 2598 LOT 1
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Metals										
Calcium	MG/KG	-	41	41	516.0	6.07E+04	6,698	0	SB-07	3-4
Chromium	MG/KG	1500	41	41	6.20	75.70	27.45	0	MW-06	10.5-11
Cobalt	MG/KG	-	41	41	2.20	22.20	9.17	0	SB-41	0.5-1
Copper	MG/KG	270	41	41	12.00	425.0	49.29	1	MW-05	4.5-5
Iron	MG/KG	-	41	41	6,550	1.13E+05	2.53E+04	0	SB-16	6-6.5
Lead	MG/KG	1000	41	41	2.10	335.0	77.47	0	SB-41	9-11
Magnesium	MG/KG	-	41	41	1,320	8,910	4,384	0	SB-10	11-11.5
Manganese	MG/KG	10000	41	41	57.00	1,230	252.2	0	SB-15	6-6.5
Mercury	MG/KG	2.8	41	23	0.007	4.20	0.700	2	SB-07	3-4
Nickel	MG/KG	310	41	41	9.80	41.10	22.31	0	MW-06	10.5-11
Potassium	MG/KG	-	41	41	503.0	1.09E+04	2,351	0	SB-15	6-6.5
Selenium	MG/KG	1500	41	31	0.610	5.10	2.08	0	SB-44	10-12
Silver	MG/KG	1500	41	3	0.110	0.400	0.227	0	SB-42	18.5-19.5
Sodium	MG/KG	-	41	41	100.0	1,550	348.3	0	SB-10	11-11.5
Thallium	MG/KG	-	41	6	0.340	1.70	1.21	0	SB-07	4.5-5.5
Vanadium	MG/KG	-	41	41	9.10	66.10	34.43	0	MW-06	10.5-11
Zinc	MG/KG	10000	41	41	33.20	278.0	88.89	0	MW-05	4.5-5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



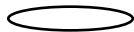
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-5F
BLOCK 2597 LOT 1
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Volatile Organic Compounds										
Acetone	MG/KG	500	15	8	0.005	0.240	0.044	0	SB-19	5-5.5
Carbon disulfide	MG/KG	-	15	3	0.003	0.019	0.008	0	SB-19	5-5.5
Isopropylbenzene	MG/KG	-	15	2	0.031	0.065	0.048	0	SB-19	5-5.5
Methylcyclohexane	MG/KG	-	15	1	0.044	0.044	0.044	0	SB-19	5-5.5
Methylene chloride	MG/KG	500	15	3	0.004	0.018	0.010	0	MW-07-URS	9.8-10.5
Xylene (total)	MG/KG	500	15	1	0.013	0.013	0.013	0	SB-19	5-5.5
Semivolatile Organic Compounds										
1,1'-Biphenyl	MG/KG	-	15	2	0.130	32.00	16.07	0	SB-21	10-11
2-Chloronaphthalene	MG/KG	-	15	7	1.30	1.40	1.34	0	SB-20	3-3.5
2-Methylnaphthalene	MG/KG	-	15	3	0.092	1.00	0.434	0	SB-18	5.5-6
Acenaphthene	MG/KG	500	15	3	0.170	120.0	40.20	0	SB-21	10-11
Acenaphthylene	MG/KG	500	15	9	0.022	22.00	3.24	0	SB-21	10-11
Anthracene	MG/KG	500	15	11	0.045	60.00	6.14	0	SB-21	10-11
Benzo(a)anthracene	MG/KG	5.6	15	15	0.021	39.00	3.15	1	SB-21	10-11
Benzo(a)pyrene	MG/KG	1	15	14	0.023	28.00	2.64	3	SB-21	10-11
Benzo(b)fluoranthene	MG/KG	5.6	15	12	0.120	18.00	2.33	1	SB-21	10-11
Benzo(g,h,i)perylene	MG/KG	500	15	12	0.024	12.00	1.58	0	SB-21	10-11
Benzo(k)fluoranthene	MG/KG	56	15	12	0.096	11.00	1.47	0	SB-21	10-11
bis(2-Ethylhexyl)phthalate	MG/KG	-	15	12	0.030	0.220	0.101	0	SB-18	4-4.5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



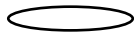
Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-5F
BLOCK 2597 LOT 1
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Semivolatile Organic Compounds										
Butylbenzylphthalate	MG/KG	-	15	1	0.019	0.019	0.019	0	SB-18	4-4.5
Carbazole	MG/KG	-	15	2	0.022	0.230	0.126	0	SB-21	3.5-4
Chrysene	MG/KG	56	15	14	0.032	37.00	3.15	0	SB-21	10-11
Dibenz(a,h)anthracene	MG/KG	0.56	15	9	0.036	1.40	0.271	1	SB-18	5.5-6
Dibenzofuran	MG/KG	350	15	3	0.140	6.40	2.34	0	SB-21	10-11
Di-n-butylphthalate	MG/KG	-	15	7	0.087	0.150	0.110	0	SB-21	3.5-4
Di-n-octylphthalate	MG/KG	-	15	1	0.042	0.042	0.042	0	SB-18	4-4.5
Fluoranthene	MG/KG	500	15	14	0.019	62.00	5.08	0	SB-21	10-11
Fluorene	MG/KG	500	15	4	0.200	62.00	16.52	0	SB-21	10-11
Indeno(1,2,3-cd)pyrene	MG/KG	5.6	15	12	0.021	8.20	1.14	1	SB-21	10-11
Naphthalene	MG/KG	500	15	4	0.065	32.00	8.07	0	SB-21	10-11
Phenanthrene	MG/KG	500	15	14	0.022	190.0	13.99	0	SB-21	10-11
Pyrene	MG/KG	500	15	15	0.023	99.00	7.48	0	SB-21	10-11
Metals										
Aluminum	MG/KG	-	15	15	4,080	2.86E+04	1.25E+04	0	SB-18	8.5-9
Antimony	MG/KG	-	15	1	4.00	4.00	4.00	0	SB-21	3.5-4
Arsenic	MG/KG	16	15	9	1.50	9.60	3.82	0	SB-21	3.5-4
Barium	MG/KG	400	15	15	48.10	353.0	108.5	0	SB-18	8.5-9
Beryllium	MG/KG	590	15	10	0.098	2.00	0.770	0	SB-21	21-22

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-5F
BLOCK 2597 LOT 1
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN RI SOIL SAMPLES - COMMERCIAL USE
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value	Depth Of Max
					Min	Max	Avg			
Metals										
Cadmium	MG/KG	9.3	15	9	0.016	0.870	0.343	0	SB-21	3.5-4
Calcium	MG/KG	-	15	15	1,660	3.22E+04	7,460	0	SB-21	3.5-4
Chromium	MG/KG	1500	15	15	11.90	177.0	41.53	0	SB-18	8.5-9
Cobalt	MG/KG	-	15	15	3.10	20.90	9.05	0	SB-18	8.5-9
Copper	MG/KG	270	15	15	16.40	89.20	41.58	0	MW-07-URS	9.8-10.5
Iron	MG/KG	-	15	15	1.70E+04	5.54E+04	2.93E+04	0	SB-21	3.5-4
Lead	MG/KG	1000	15	15	1.50	132.0	24.73	0	SB-21	3.5-4
Magnesium	MG/KG	-	15	15	2,530	1.82E+04	8,640	0	SB-18	8.5-9
Manganese	MG/KG	10000	15	15	174.0	515.0	265.1	0	SB-21	21-22
Mercury	MG/KG	2.8	15	12	0.009	0.130	0.051	0	SB-21	3.5-4
Nickel	MG/KG	310	15	15	6.80	71.80	25.94	0	SB-18	8.5-9
Potassium	MG/KG	-	15	15	1,190	1.65E+04	5,846	0	SB-18	8.5-9
Selenium	MG/KG	1500	15	5	1.40	2.30	1.80	0	SB-19	3-4
Sodium	MG/KG	-	15	15	112.0	2,840	504.4	0	SB-21	21-22
Thallium	MG/KG	-	15	9	0.330	1.20	0.766	0	SB-20	4.5-5
Vanadium	MG/KG	-	15	15	25.50	127.0	53.01	0	SB-18	8.5-9
Zinc	MG/KG	10000	15	15	35.20	165.0	79.89	0	SB-20	4.5-5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



Concentration Exceeds Criteria


Only Detected Results Reported.

TABLE 4-6
SUMMARY OF DETECTED COMPOUNDS IN AUGUST 2015 OVERBURDEN GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			MW-01	MW-02	MW-03	MW-04	MW-05
Sample ID			MW-01	MW-02	MW-03	MW-04	MW-05
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/12/15	08/13/15	08/13/15	08/12/15	08/12/15
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,2-Dichloroethane	UG/L	0.6					14
1,2-Dichloroethene (cis)	UG/L	5			3,800 D		6.8
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
Acetone	UG/L	50					
Benzene	UG/L	1	18		7.8		480 D
Bromodichloromethane	UG/L	50					
Bromomethane	UG/L	5					
Carbon disulfide	UG/L	60					
Chlorobenzene	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7					
Chloromethane	UG/L	5					
Cyclohexane	UG/L	-		2.0	2.7		1.4
Ethylbenzene	UG/L	5	5.5		4.3		640 D
Isopropylbenzene	UG/L	5			2.6		64
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-			2.1		2.1
Methylene chloride	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

- = No standard or guidance value.

J - The reported concentration is an estimated value; D - Result reported from a secondary dilution analysis.


Only Detected Results Reported.

TABLE 4-6
SUMMARY OF DETECTED COMPOUNDS IN AUGUST 2015 OVERBURDEN GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			MW-01	MW-02	MW-03	MW-04	MW-05
Sample ID			MW-01	MW-02	MW-03	MW-04	MW-05
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/12/15	08/13/15	08/13/15	08/12/15	08/12/15
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Styrene	UG/L	5					
Tetrachloroethene	UG/L	5					
Toluene	UG/L	5	1.6		1.4		150 D
Trichloroethene	UG/L	5					
Vinyl chloride	UG/L	2			2,700 D		
Xylene (total)	UG/L	5	15		29		600 D
Total BTEX	UG/L	-	40.1	ND	42.5	ND	1,870
Total Volatile Organic Compounds	UG/L	-	40.1	2	6,549.9	ND	1,958.3
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/L	5	11				32
2,4,6-Trichlorophenol	UG/L	1					
2,4-Dichlorophenol	UG/L	5			1.2 J		
2,4-Dimethylphenol	UG/L	50					
2-Chlorophenol	UG/L	1					
2-Methylnaphthalene	UG/L	-	21		11		640 DJ
2-Methylphenol (o-cresol)	UG/L	1					
2-Nitrophenol	UG/L	1					
3&4-Methylphenol (m,p-cresol)	UG/L	1					5.8
4-Nitrophenol	UG/L	1					
Acenaphthene	UG/L	20	67 DJ	1.0 J		2.3 J	67 J
Acenaphthylene	UG/L	-	3.5 J				38
Acetophenone	UG/L	-					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

- = No standard or guidance value.

J - The reported concentration is an estimated value; D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

TABLE 4-6
SUMMARY OF DETECTED COMPOUNDS IN AUGUST 2015 OVERBURDEN GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			MW-01	MW-02	MW-03	MW-04	MW-05
Sample ID			MW-01	MW-02	MW-03	MW-04	MW-05
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/12/15	08/13/15	08/13/15	08/12/15	08/12/15
Parameter	Units	Criteria*					
Semivolatile Organic Compounds							
Anthracene	UG/L	50	5.6		0.89 J		6.9
Benzaldehyde	UG/L	-					
Benzo(a)anthracene	UG/L	0.002			0.97 J		0.95 J
Benzo(a)pyrene	UG/L	ND			0.69 J		0.95 J
Benzo(b)fluoranthene	UG/L	0.002			0.92 J		0.71 J
bis(2-Ethylhexyl)phthalate	UG/L	5	1.0 J	1.2 J			0.83 J
Carbazole	UG/L	-	46 DJ				6.2
Chrysene	UG/L	0.002			1.0 J		0.92 J
Dibenzofuran	UG/L	-	38				4.6 J
Diethylphthalate	UG/L	50					
Dimethylphthalate	UG/L	50	2.6 J	2.6 J	1.7 J	4.2 J	3.1 J
Fluoranthene	UG/L	50	6.6		2.5 J		2.9 J
Fluorene	UG/L	50	31		2.3 J	1.1 J	33
Naphthalene	UG/L	10	570 D				5,700 D
Phenanthrene	UG/L	50	39		6.6		31
Phenol	UG/L	1					3.2 J
Pyrene	UG/L	50	4.4 J		2.3 J		4.2 J
Total Polynuclear Aromatic Hydrocarbons	UG/L	-	748.1	1	29.17	3.4	6,526.53
Total Semivolatile Organic Compounds	UG/L	-	846.7	4.8	32.07	7.6	6,582.26
Metals							
Aluminum	UG/L	-			107 J		6,140
Arsenic	UG/L	25				6.7 J	

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

- = No standard or guidance value.

J - The reported concentration is an estimated value; D - Result reported from a secondary dilution analysis.


Only Detected Results Reported.

TABLE 4-6
SUMMARY OF DETECTED COMPOUNDS IN AUGUST 2015 OVERBURDEN GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			MW-01	MW-02	MW-03	MW-04	MW-05
Sample ID			MW-01	MW-02	MW-03	MW-04	MW-05
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/12/15	08/13/15	08/13/15	08/12/15	08/12/15
Parameter	Units	Criteria*					
Metals							
Barium	UG/L	1000	267	1,790	212	118 J	259
Beryllium	UG/L	3					
Cadmium	UG/L	5					
Calcium	UG/L	-	305,000	281,000	460,000	73,000	85,600
Chromium	UG/L	50			2.3 J	1.1 J	15.8 J
Cobalt	UG/L	-	0.99 J				9.2 J
Copper	UG/L	200	5.8 J	12.2 J	8.5 J		29.0 J
Iron	UG/L	300	23,600	52,300	51,200	16,000	28,500
Lead	UG/L	25		5.9 J	8.4 J		7.7 J
Magnesium	UG/L	35000	131,000	116,000	85,000	19,600	36,900
Manganese	UG/L	300	1,130	2,670	2,050	718	841
Mercury	UG/L	0.7			0.037 J		
Nickel	UG/L	100		2.4 J	17.7 J	2.1 J	20.8 J
Potassium	UG/L	-	61,500	57,100 J	46,400	19,500	11,600
Selenium	UG/L	10	32.8	15.6 J	13.6 J		
Silver	UG/L	50					
Sodium	UG/L	20000	1,360,000	3,030,000	345,000	253,000	160,000
Thallium	UG/L	0.5					
Vanadium	UG/L	-	4.2 J	7.4 J	9.8 J	2.5 J	20.8 J
Zinc	UG/L	2000					24.5 J
Miscellaneous Parameters							
Cyanide, Total	UG/L	200	126		470		482

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

- = No standard or guidance value.

J - The reported concentration is an estimated value; D - Result reported from a secondary dilution analysis.

Only Detected Results Reported.

TABLE 4-6
SUMMARY OF DETECTED COMPOUNDS IN AUGUST 2015 OVERBURDEN GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			MW-06	MW-07-URS	MW-11	MWMF-01	MWMF-02
Sample ID			MW-06	MW-07-URS	MW-11	MWMF-01	MWMF-02
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/13/15	08/12/15	08/12/15	08/12/15	08/13/15
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5					
1,2-Dichloroethane	UG/L	0.6				7.4	
1,2-Dichloroethene (cis)	UG/L	5				2.3	
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
Acetone	UG/L	50					
Benzene	UG/L	1	11			340 D	
Bromodichloromethane	UG/L	50					
Bromomethane	UG/L	5					
Carbon disulfide	UG/L	60					
Chlorobenzene	UG/L	5					
Chloroethane	UG/L	5					
Chloroform	UG/L	7					
Chloromethane	UG/L	5					
Cyclohexane	UG/L	-				6.0	
Ethylbenzene	UG/L	5	47			5.0	
Isopropylbenzene	UG/L	5	15	1.5		15	
Methyl tert-butyl ether	UG/L	10				25	
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

- = No standard or guidance value.

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Only Detected Results Reported.

TABLE 4-6
SUMMARY OF DETECTED COMPOUNDS IN AUGUST 2015 OVERBURDEN GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			MW-06	MW-07-URS	MW-11	MWMF-01	MWMF-02
Sample ID			MW-06	MW-07-URS	MW-11	MWMF-01	MWMF-02
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/13/15	08/12/15	08/12/15	08/12/15	08/13/15
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Styrene	UG/L	5					
Tetrachloroethene	UG/L	5					
Toluene	UG/L	5				2.5	
Trichloroethene	UG/L	5					
Vinyl chloride	UG/L	2				3.2	
Xylene (total)	UG/L	5	37			4.4	
Total BTEX	UG/L	-	95	ND	ND	351.9	ND
Total Volatile Organic Compounds	UG/L	-	110	1.5	ND	410.8	ND
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/L	5	6.5				
2,4,6-Trichlorophenol	UG/L	1					
2,4-Dichlorophenol	UG/L	5					
2,4-Dimethylphenol	UG/L	50					
2-Chlorophenol	UG/L	1					
2-Methylnaphthalene	UG/L	-					
2-Methylphenol (o-cresol)	UG/L	1			0.66 J		
2-Nitrophenol	UG/L	1					
3&4-Methylphenol (m,p-cresol)	UG/L	1			0.86 J		
4-Nitrophenol	UG/L	1					
Acenaphthene	UG/L	20	30	2.4 J	7.0	30	
Acenaphthylene	UG/L	-	3.1 J				
Acetophenone	UG/L	-					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

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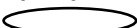
Only Detected Results Reported.

TABLE 4-6
SUMMARY OF DETECTED COMPOUNDS IN AUGUST 2015 OVERBURDEN GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			MW-06	MW-07-URS	MW-11	MWMF-01	MWMF-02
Sample ID			MW-06	MW-07-URS	MW-11	MWMF-01	MWMF-02
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/13/15	08/12/15	08/12/15	08/12/15	08/13/15
Parameter	Units	Criteria*					
Semivolatile Organic Compounds							
Anthracene	UG/L	50	2.2 J			0.62 J	
Benzaldehyde	UG/L	-					
Benzo(a)anthracene	UG/L	0.002					
Benzo(a)pyrene	UG/L	ND					
Benzo(b)fluoranthene	UG/L	0.002					
bis(2-Ethylhexyl)phthalate	UG/L	5		0.73 J	6.6	2.1 J	1.1 J
Carbazole	UG/L	-	1.4 J		1.2 J	5.1	
Chrysene	UG/L	0.002					
Dibenzofuran	UG/L	-	4.0 J			2.5 J	
Diethylphthalate	UG/L	50					
Dimethylphthalate	UG/L	50	2.4 J	2.3 J	2.0 J	2.2 J	2.9 J
Fluoranthene	UG/L	50	5.7				
Fluorene	UG/L	50	8.7		0.61 J	9.4	
Naphthalene	UG/L	10	34			8.8	
Phenanthrene	UG/L	50	10				
Phenol	UG/L	1			0.67 J	2.0 J	
Pyrene	UG/L	50	7.7				
Total Polynuclear Aromatic Hydrocarbons	UG/L	-	101.4	2.4	7.61	48.82	ND
Total Semivolatile Organic Compounds	UG/L	-	115.7	5.43	19.6	62.72	4
Metals							
Aluminum	UG/L	-			769		202
Arsenic	UG/L	25					9.8 J

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

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 Concentration Exceeds Criteria

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TABLE 4-6
SUMMARY OF DETECTED COMPOUNDS IN AUGUST 2015 OVERBURDEN GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			MW-06	MW-07-URS	MW-11	MWMF-01	MWMF-02
Sample ID			MW-06	MW-07-URS	MW-11	MWMF-01	MWMF-02
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/13/15	08/12/15	08/12/15	08/12/15	08/13/15
Parameter	Units	Criteria*					
Metals							
Barium	UG/L	1000	436	390	486	231	
Beryllium	UG/L	3					
Cadmium	UG/L	5					
Calcium	UG/L	-	295,000	214,000	295,000	163,000	78,100
Chromium	UG/L	50		0.78 J	1.7 J	0.95 J	
Cobalt	UG/L	-			1.7 J	5.5 J	
Copper	UG/L	200			7.5 J	4.4 J	
Iron	UG/L	300	4,560	511	33,000	28,500	9,670
Lead	UG/L	25					
Magnesium	UG/L	35000	32,800	107,000	106,000	19,300	10,700
Manganese	UG/L	300	993	1,420	1,120	720	975
Mercury	UG/L	0.7					
Nickel	UG/L	100	3.4 J	4.4 J	1.4 J	2.2 J	
Potassium	UG/L	-	24,000	43,700	47,300	24,500	8,650
Selenium	UG/L	10	14.2 J	16.7 J	17.3 J		12.2 J
Silver	UG/L	50					
Sodium	UG/L	20000	676,000	1,010,000	825,000	353,000	37,500
Thallium	UG/L	0.5					
Vanadium	UG/L	-	1.7 J	3.0 J	5.6 J	3.6 J	1.8 J
Zinc	UG/L	2000					
Miscellaneous Parameters							
Cyanide, Total	UG/L	200	234		155	898	31.0

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

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TABLE 4-6
SUMMARY OF DETECTED COMPOUNDS IN AUGUST 2015 OVERBURDEN GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			MWMF-03	MWMF-03	MWMF-04	MWMF-05	MWMF-06
Sample ID			DUPLICATE-081315	MWMF-03	MWMF-04	MWMF-05	MWMF-06
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/13/15	08/13/15	08/13/15	08/12/15	08/12/15
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	UG/L	5			22		
1,1,2-Trichloroethane	UG/L	1			120	2.4	
1,1-Dichloroethane	UG/L	5			9.4	1.6	
1,2-Dichloroethane	UG/L	0.6			150 D	14	2.0
1,2-Dichloroethene (cis)	UG/L	5	1.4	1.5	450 D	120	13
1,2-Dichloroethene (trans)	UG/L	5			140	2.9	
1,2-Dichloropropane	UG/L	1			5.2		
Acetone	UG/L	50			280 DJ	62 J	27 J
Benzene	UG/L	1	26	24	120 D	190 D	26
Bromodichloromethane	UG/L	50			1.2		
Bromomethane	UG/L	5			140 J		
Carbon disulfide	UG/L	60			97	110	42
Chlorobenzene	UG/L	5			1.2		
Chloroethane	UG/L	5			80		
Chloroform	UG/L	7			77	5.1	
Chloromethane	UG/L	5		1.2	720 D	11	3.5
Cyclohexane	UG/L	-					
Ethylbenzene	UG/L	5		1.0	4.8	110	
Isopropylbenzene	UG/L	5	2.7	2.6		11	
Methyl tert-butyl ether	UG/L	10			8.0	13	
Methylcyclohexane	UG/L	-					
Methylene chloride	UG/L	5			320 D	20	7.8

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

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TABLE 4-6
SUMMARY OF DETECTED COMPOUNDS IN AUGUST 2015 OVERBURDEN GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			MWMF-03	MWMF-03	MWMF-04	MWMF-05	MWMF-06
Sample ID			DUPLICATE-081315	MWMF-03	MWMF-04	WMMF-05	MWMF-06
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/13/15	08/13/15	08/13/15	08/12/15	08/12/15
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Volatile Organic Compounds							
Styrene	UG/L	5					1.0
Tetrachloroethene	UG/L	5			20		
Toluene	UG/L	5			1.8	8.5	2.1
Trichloroethene	UG/L	5			9.6		
Vinyl chloride	UG/L	2			52	190	6.4
Xylene (total)	UG/L	5				49	
Total BTEX	UG/L	-	26	25	126.6	357.5	28.1
Total Volatile Organic Compounds	UG/L	-	30.1	30.3	2,829.2	920.5	130.8
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/L	5			2.3 J		
2,4,6-Trichlorophenol	UG/L	1					0.73 J
2,4-Dichlorophenol	UG/L	5					
2,4-Dimethylphenol	UG/L	50					
2-Chlorophenol	UG/L	1					1.2 J
2-Methylnaphthalene	UG/L	-			1.5 J	1.1 J	
2-Methylphenol (o-cresol)	UG/L	1				1.6 J	1.5 J
2-Nitrophenol	UG/L	1			3.5 J		
3&4-Methylphenol (m,p-cresol)	UG/L	1			1.7 J	1.1 J	2.0 J
4-Nitrophenol	UG/L	1			2.3 J		
Acenaphthene	UG/L	20	0.59 J			7.8	0.89 J
Acenaphthylene	UG/L	-				1.0 J	
Acetophenone	UG/L	-			600 D	13	16

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

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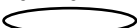
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TABLE 4-6
SUMMARY OF DETECTED COMPOUNDS IN AUGUST 2015 OVERBURDEN GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			MWMF-03	MWMF-03	MWMF-04	MWMF-05	MWMF-06
Sample ID			DUPLICATE-081315	MWMF-03	MWMF-04	WMMF-05	MWMF-06
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/13/15	08/13/15	08/13/15	08/12/15	08/12/15
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Semivolatile Organic Compounds							
Anthracene	UG/L	50					
Benzaldehyde	UG/L	-			180 DJ		2.3 J
Benzo(a)anthracene	UG/L	0.002					
Benzo(a)pyrene	UG/L	ND					
Benzo(b)fluoranthene	UG/L	0.002					
bis(2-Ethylhexyl)phthalate	UG/L	5	0.92 J			0.67 J	
Carbazole	UG/L	-					
Chrysene	UG/L	0.002					
Dibenzofuran	UG/L	-				0.94 J	
Diethylphthalate	UG/L	50					0.50 J
Dimethylphthalate	UG/L	50	2.8 J	2.7 J		4.6 J	3.0 J
Fluoranthene	UG/L	50					
Fluorene	UG/L	50				0.82 J	
Naphthalene	UG/L	10			170 DJ	37	
Phenanthrene	UG/L	50			0.84 J	4.4 J	
Phenol	UG/L	1			0.64 J	1.3 J	1.1 J
Pyrene	UG/L	50					
Total Polynuclear Aromatic Hydrocarbons	UG/L	-	0.59	ND	172.34	52.12	0.89
Total Semivolatile Organic Compounds	UG/L	-	4.31	2.7	962.78	75.33	29.22
Metals							
Aluminum	UG/L	-			442,000	95,500	1,810
Arsenic	UG/L	25			47.6		

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

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TABLE 4-6
SUMMARY OF DETECTED COMPOUNDS IN AUGUST 2015 OVERBURDEN GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			MWMF-03	MWMF-03	MWMF-04	MWMF-05	MWMF-06
Sample ID			DUPLICATE-081315	MWMF-03	MWMF-04	WMMF-05	MWMF-06
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/13/15	08/13/15	08/13/15	08/12/15	08/12/15
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Metals							
Barium	UG/L	1000				29.0 J	59.3 J
Beryllium	UG/L	3			41.4	8.5	0.44 J
Cadmium	UG/L	5	1.4 J	1.3 J	10.4		
Calcium	UG/L	-	246,000	240,000	474,000	462,000	271,000
Chromium	UG/L	50			771	144	132
Cobalt	UG/L	-			930	148	102
Copper	UG/L	200	58.1	54.5	1,520	97.5	52.2
Iron	UG/L	300	2,770	2,840	261,000	1,430,000	594,000
Lead	UG/L	25	33.9	32.5	35.7	40.6	39.9
Magnesium	UG/L	35000	27,200	27,100	812,000	269,000	58,200
Manganese	UG/L	300	1,190	1,200	34,800	13,900	3,930
Mercury	UG/L	0.7			0.10 J		
Nickel	UG/L	100	125	124	3,610	2,340	1,150
Potassium	UG/L	-	38,600	38,400	24,100	82,500	58,800
Selenium	UG/L	10	22.0 J	12.7 J		36.7	44.2
Silver	UG/L	50				11.8 J	7.0 J
Sodium	UG/L	20000	261,000	264,000	5,850,000	1,940,000	462,000
Thallium	UG/L	0.5			37.8	56.2	18.0 J
Vanadium	UG/L	-	15.3 J	15.7 J	502	524	757
Zinc	UG/L	2000	641	608	4,040	4,780	800
Miscellaneous Parameters							
Cyanide, Total	UG/L	200	158	237			144

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

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TABLE 4-6
SUMMARY OF DETECTED COMPOUNDS IN AUGUST 2015 OVERBURDEN GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			MWMF-07D	MWMF-07S	MWMF-08
Sample ID			MWMF-07D	MWMF-07S	MWMF-08
Matrix			Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-
Date Sampled			08/11/15	08/12/15	08/13/15
Parameter	Units	Criteria*			
Volatile Organic Compounds					
1,1,2,2-Tetrachloroethane	UG/L	5			
1,1,2-Trichloroethane	UG/L	1			
1,1-Dichloroethane	UG/L	5			
1,2-Dichloroethane	UG/L	0.6			39
1,2-Dichloroethene (cis)	UG/L	5	1.4		30
1,2-Dichloroethene (trans)	UG/L	5			1.7
1,2-Dichloropropane	UG/L	1			
Acetone	UG/L	50			140 J
Benzene	UG/L	1			1,700 D
Bromodichloromethane	UG/L	50			
Bromomethane	UG/L	5			
Carbon disulfide	UG/L	60			3.4
Chlorobenzene	UG/L	5			1.0
Chloroethane	UG/L	5			
Chloroform	UG/L	7			
Chloromethane	UG/L	5		1.4	
Cyclohexane	UG/L	-		4.4	2.2
Ethylbenzene	UG/L	5			2,600 D
Isopropylbenzene	UG/L	5		14	130
Methyl tert-butyl ether	UG/L	10			1.4
Methylcyclohexane	UG/L	-		3.7	1.9
Methylene chloride	UG/L	5			2.6

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

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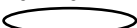
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TABLE 4-6
SUMMARY OF DETECTED COMPOUNDS IN AUGUST 2015 OVERBURDEN GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			MWMF-07D	MWMF-07S	MWMF-08
Sample ID			MWMF-07D	MWMF-07S	MWMF-08
Matrix			Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-
Date Sampled			08/11/15	08/12/15	08/13/15
Parameter	Units	Criteria*			
Volatile Organic Compounds					
Styrene	UG/L	5			
Tetrachloroethene	UG/L	5			
Toluene	UG/L	5		1.5	450 D
Trichloroethene	UG/L	5			
Vinyl chloride	UG/L	2			15
Xylene (total)	UG/L	5			2,000 D
Total BTEX	UG/L	-	ND	1.5	6,750
Total Volatile Organic Compounds	UG/L	-	1.4	25	7,118.2
Semivolatile Organic Compounds					
1,1'-Biphenyl	UG/L	5			6.1
2,4,6-Trichlorophenol	UG/L	1			
2,4-Dichlorophenol	UG/L	5			
2,4-Dimethylphenol	UG/L	50		1.3 J	10
2-Chlorophenol	UG/L	1			
2-Methylnaphthalene	UG/L	-			140 DJ
2-Methylphenol (o-cresol)	UG/L	1		0.82 J	
2-Nitrophenol	UG/L	1			
3&4-Methylphenol (m,p-cresol)	UG/L	1		1.2 J	
4-Nitrophenol	UG/L	1			
Acenaphthene	UG/L	20			7.6
Acenaphthylene	UG/L	-			2.8 J
Acetophenone	UG/L	-			85 DJ

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

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EAST 138th STREET WORKS SITE

Location ID			MWMF-07D	MWMF-07S	MWMF-08
Sample ID			MWMF-07D	MWMF-07S	MWMF-08
Matrix			Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-
Date Sampled			08/11/15	08/12/15	08/13/15
Parameter	Units	Criteria*			
Semivolatile Organic Compounds					
Anthracene	UG/L	50			
Benzaldehyde	UG/L	-			
Benzo(a)anthracene	UG/L	0.002			
Benzo(a)pyrene	UG/L	ND			
Benzo(b)fluoranthene	UG/L	0.002			
bis(2-Ethylhexyl)phthalate	UG/L	5	0.69 J	5.0	0.66 J
Carbazole	UG/L	-			0.92 J
Chrysene	UG/L	0.002			
Dibenzofuran	UG/L	-			1.0 J
Diethylphthalate	UG/L	50			
Dimethylphthalate	UG/L	50	3.2 J	3.1 J	4.3 J
Fluoranthene	UG/L	50			
Fluorene	UG/L	50			2.1 J
Naphthalene	UG/L	10		9.0	3,800 D
Phenanthrene	UG/L	50			1.5 J
Phenol	UG/L	1		0.77 J	6.9
Pyrene	UG/L	50			
Total Polynuclear Aromatic Hydrocarbons	UG/L	-	ND	9	3,954
Total Semivolatile Organic Compounds	UG/L	-	3.89	21.19	4,068.88
Metals					
Aluminum	UG/L	-	137 J		
Arsenic	UG/L	25			

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

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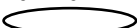
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TABLE 4-6
SUMMARY OF DETECTED COMPOUNDS IN AUGUST 2015 OVERBURDEN GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			MWMF-07D	MWMF-07S	MWMF-08
Sample ID			MWMF-07D	MWMF-07S	MWMF-08
Matrix			Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-
Date Sampled			08/11/15	08/12/15	08/13/15
Parameter	Units	Criteria*			
Metals					
Barium	UG/L	1000	643	63.8 J	
Beryllium	UG/L	3			
Cadmium	UG/L	5			
Calcium	UG/L	-	863,000	167,000	455,000
Chromium	UG/L	50			21.2
Cobalt	UG/L	-	31.3 J	1.1 J	
Copper	UG/L	200	5.7 J		16.7 J
Iron	UG/L	300	5,870	5,210	214,000
Lead	UG/L	25	11.6	10.5	18.4
Magnesium	UG/L	35000	217,000	95,100	631,000
Manganese	UG/L	300	37,300	650	38,300
Mercury	UG/L	0.7			
Nickel	UG/L	100	31.4 J	0.86 J	758
Potassium	UG/L	-	30,800	16,700	82,400
Selenium	UG/L	10		20.2 J	28.3 J
Silver	UG/L	50			
Sodium	UG/L	20000	2,480,000	151,000	3,340,000
Thallium	UG/L	0.5	22.3		38.0
Vanadium	UG/L	-		2.2 J	322
Zinc	UG/L	2000	17.0 J		7.0 J
Miscellaneous Parameters					
Cyanide, Total	UG/L	200	7.9 J	26.5 J	252

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

- = No standard or guidance value.

J - The reported concentration is an estimated value; D - Result reported from a secondary dilution analysis.


Only Detected Results Reported.

**TABLE 4-7
SUMMARY OF DETECTED COMPOUNDS IN BEDROCK GROUNDWATER
EAST 138th STREET WORKS SITE**

Location ID			BW-01	BW-01	BW-02	BW-02	BW-02
Sample ID			BW-01	BW-01	03122012-FD-1	BW-02	BW-02
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/12/12	08/13/15	03/12/12	03/12/12	08/13/15
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Volatile Organic Compounds							
1,1-Dichloroethene	UG/L	5					6.8
1,2-Dichloroethane	UG/L	0.6					730 D
1,2-Dichloroethene (cis)	UG/L	5	220	230 J	7,100	6,800	3,600 D
1,2-Dichloroethene (trans)	UG/L	5		3.1			46
4-Methyl-2-pentanone	UG/L	-					9.8 J
Acetone	UG/L	50		28 J			480 J
Benzene	UG/L	1	26,000 D	37,000 D	19,000	19,000	34,000 D
Carbon disulfide	UG/L	60					3.8
Chloromethane	UG/L	5					3.3
Cyclohexane	UG/L	-					3.7
Ethylbenzene	UG/L	5	1,200	2,000 D	1,200	1,100	750 D
Isopropylbenzene	UG/L	5		23			10
Methyl tert-butyl ether	UG/L	10		9.4			23
Methylcyclohexane	UG/L	-					3.4
Methylene chloride	UG/L	5					1.2
Styrene	UG/L	5	4,300				
Toluene	UG/L	5	12,000	13,000 D	14,000	13,000	2,600 D
Trichloroethene	UG/L	5					1.0
Vinyl chloride	UG/L	2		66	990	940	2,000 D
Xylene (total)	UG/L	5	5,700	5,000 D	8,600	8,300	4,300 D
Total BTEX	UG/L	-	44,900	57,000	42,800	41,400	41,650
Total Volatile Organic Compounds	UG/L	-	49,420	57,359.5	50,890	49,140	48,572

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

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TABLE 4-7
SUMMARY OF DETECTED COMPOUNDS IN BEDROCK GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			BW-01	BW-01	BW-02	BW-02	BW-02
Sample ID			BW-01	BW-01	03122012-FD-1	BW-02	BW-02
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/12/12	08/13/15	03/12/12	03/12/12	08/13/15
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/L	5	28	33	18	17	11
2,4-Dimethylphenol	UG/L	50		270 DJ	1,500 J		1,400 D
2-Methylnaphthalene	UG/L	-	510 DJ	480 DJ	330 DJ	310 DJ	220 DJ
2-Methylphenol (o-cresol)	UG/L	1	80 J	170 DJ	1,300 DJ	1,300 DJ	760 DJ
3&4-Methylphenol (m,p-cresol)	UG/L	1	21	47 J	1,300 DJ	2,400 D	1,200 D
3,3'-Dichlorobenzidine	UG/L	5					1.1 J
Acenaphthene	UG/L	20	11	29	5.9 J	5.6 J	3.9 J
Acenaphthylene	UG/L	-	190 DJ	140 J	5.1 J	5.2 J	4.7 J
Acetophenone	UG/L	-					
Anthracene	UG/L	50	7.5 J	4.9 J	5.2 J	5.4 J	2.1 J
bis(2-Chloroethyl)ether	UG/L	1	70 J				
bis(2-Ethylhexyl)phthalate	UG/L	5	0.94 J			0.93 J	2.5 J
Carbazole	UG/L	-	86 J	76 J	10	9.4 J	5.4
Dibenzofuran	UG/L	-	21	25	2.9 J	2.8 J	
Dimethylphthalate	UG/L	50					
Fluoranthene	UG/L	50	3.5 J	2.7 J	1.6 J	1.5 J	0.57 J
Fluorene	UG/L	50	31	35	11	11	0.57 J
Naphthalene	UG/L	10	6,800 D	6,100 D	7,300 D	6,800 D	3,700 D
Phenanthrene	UG/L	50	32	32	14	14	7.3
Phenol	UG/L	1	15	31	1,200 DJ	1,100 DJ	540 DJ
Pyrene	UG/L	50	2.7 J	2.3 J	1.6 J	1.6 J	0.85 J
Total Polynuclear Aromatic Hydrocarbons	UG/L	-	7,587.7	6,825.9	7,674.4	7,154.3	3,939.99
Total Semivolatile Organic Compounds	UG/L	-	7,909.64	7,477.9	13,005.3	11,984.43	7,859.99

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

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Only Detected Results Reported.

**TABLE 4-7
SUMMARY OF DETECTED COMPOUNDS IN BEDROCK GROUNDWATER
EAST 138th STREET WORKS SITE**

Location ID			BW-01	BW-01	BW-02	BW-02	BW-02
Sample ID			BW-01	BW-01	03122012-FD-1	BW-02	BW-02
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/12/12	08/13/15	03/12/12	03/12/12	08/13/15
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Metals							
Aluminum	UG/L	-	73.0 B			66.6 B	
Arsenic	UG/L	25			10.9 B	9.6 B	
Barium	UG/L	1000	41.0 B		79.3 B	79.8 B	
Cadmium	UG/L	5	1.4 B				
Calcium	UG/L	-	140,000	242,000	230,000	227,000	555,000
Chromium	UG/L	50	2.2 B		4.1 B	4.9 B	10.5 J
Cobalt	UG/L	-	1.8 B	3.2 J	10.9 B	11.0 B	
Copper	UG/L	200		6.9 J			47.6
Iron	UG/L	300	38,400	60,200	3,130	3,130	841,000
Lead	UG/L	25					27.0
Magnesium	UG/L	35000	74,100	136,000	9,580	9,440	315,000
Manganese	UG/L	300	1,780	2,650	45.3 B	44.8 B	68,700
Nickel	UG/L	100	2.1 B	1.5 J	16.6 B	16.7 B	562
Potassium	UG/L	-	28,900 J	35,000	96,000 J	96,100 J	320,000
Selenium	UG/L	10		22.8 J			28.5 J
Silver	UG/L	50					10.8 J
Sodium	UG/L	20000	401,000	569,000	218,000	220,000	2,820,000
Thallium	UG/L	0.5					69.0
Vanadium	UG/L	-		6.6 J	32.3 B	31.9 B	799
Zinc	UG/L	2000					16.7 J
Miscellaneous Parameters							
Cyanide, Total	UG/L	200	221	218	7,160 J	6,870 J	1,880

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

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TABLE 4-7
SUMMARY OF DETECTED COMPOUNDS IN BEDROCK GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			BW-03	BW-03	BW-04	BW-04	BW-04
Sample ID			BW-03	BW-03	BW-04	BW-04	DUPLICATE-081115
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/13/12	08/12/15	03/13/12	08/11/15	08/11/15
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds							
1,1-Dichloroethene	UG/L	5					
1,2-Dichloroethane	UG/L	0.6				82	73
1,2-Dichloroethene (cis)	UG/L	5			1,200	56	54
1,2-Dichloroethene (trans)	UG/L	5					
4-Methyl-2-pentanone	UG/L	-					
Acetone	UG/L	50					
Benzene	UG/L	1	44,000 D	72,000 D	11,000	2,900 D	3,100 D
Carbon disulfide	UG/L	60		1.0 J			
Chloromethane	UG/L	5					
Cyclohexane	UG/L	-		7.0 J			1.0
Ethylbenzene	UG/L	5	2,700	2,600 D	780	1,100 D	1,100 D
Isopropylbenzene	UG/L	5		53 J		24	23
Methyl tert-butyl ether	UG/L	10				1.4	1.5
Methylcyclohexane	UG/L	-		4.5 J		1.5	1.4
Methylene chloride	UG/L	5		1.1 J			
Styrene	UG/L	5			2,600	380 D	410 D
Toluene	UG/L	5	300	100 J	8,000	2,500 D	2,600 D
Trichloroethene	UG/L	5		1.0 J			
Vinyl chloride	UG/L	2			200	12	12
Xylene (total)	UG/L	5	1,100	650 D	3,300	1,400 D	1,500 D
Total BTEX	UG/L	-	48,100	75,350	23,080	7,900	8,300
Total Volatile Organic Compounds	UG/L	-	48,100	75,417.6	27,080	8,456.9	8,875.9

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

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TABLE 4-7
SUMMARY OF DETECTED COMPOUNDS IN BEDROCK GROUNDWATER
EAST 138th STREET WORKS SITE

Location ID			BW-03	BW-03	BW-04	BW-04	BW-04
Sample ID			BW-03	BW-03	BW-04	BW-04	DUPLICATE-081115
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/13/12	08/12/15	03/13/12	08/11/15	08/11/15
Parameter	Units	Criteria*					Field Duplicate (1-1)
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/L	5	5.5 J	4.1 J	24	20	19
2,4-Dimethylphenol	UG/L	50		1.7 J		6.1	22
2-Methylnaphthalene	UG/L	-	8.2 J		380 DJ	220 DJ	220 DJ
2-Methylphenol (o-cresol)	UG/L	1	13		16	8.1	8.7
3&4-Methylphenol (m,p-cresol)	UG/L	1	23		12	7.9	8.4
3,3'-Dichlorobenzidine	UG/L	5					
Acenaphthene	UG/L	20	18	9.1	13	31	28
Acenaphthylene	UG/L	-	20	19	170 DJ	84 DJ	80 DJ
Acetophenone	UG/L	-	2.4 J	3.2 J	11	4.8 J	4.8 J
Anthracene	UG/L	50			8.1 J	7.2	6.7
bis(2-Chloroethyl)ether	UG/L	1					
bis(2-Ethylhexyl)phthalate	UG/L	5	0.54 J	0.91 J	0.87 J		0.70 J
Carbazole	UG/L	-	2.6 J	2.3 J	30	18	18
Dibenzofuran	UG/L	-	0.90 J	0.68 J	13	10	9.8
Dimethylphthalate	UG/L	50		2.4 J		3.0 J	5.3
Fluoranthene	UG/L	50			4.0 J	4.6 J	4.4 J
Fluorene	UG/L	50	4.4 J	3.8 J	31	23	21
Naphthalene	UG/L	10	1,200 D	370 D	3,800 D	1,900 D	2,000 D
Phenanthrene	UG/L	50	1.8 J	1.4 J	40 J	39	37
Phenol	UG/L	1	24	8.8	7.3 J	9.8	10
Pyrene	UG/L	50			4.0 J	5.3	5.3
Total Polynuclear Aromatic Hydrocarbons	UG/L	-	1,252.4	403.3	4,450.1	2,314.1	2,402.4
Total Semivolatile Organic Compounds	UG/L	-	1,324.34	427.39	4,564.27	2,401.8	2,509.1

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

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 Concentration Exceeds Criteria

- = No standard or guidance value.

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Only Detected Results Reported.

**TABLE 4-7
SUMMARY OF DETECTED COMPOUNDS IN BEDROCK GROUNDWATER
EAST 138th STREET WORKS SITE**

Location ID			BW-03	BW-03	BW-04	BW-04	BW-04
Sample ID			BW-03	BW-03	BW-04	BW-04	DUPLICATE-081115
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/13/12	08/12/15	03/13/12	08/11/15	08/11/15
Parameter	Units	Criteria*					Field Duplicate (1-1)
Metals							
Aluminum	UG/L	-			155 B	529	674
Arsenic	UG/L	25					
Barium	UG/L	1000	97.5 B	60.6 J	139 B	195 J	199 J
Cadmium	UG/L	5					
Calcium	UG/L	-	496,000	474,000	55,100	113,000	114,000
Chromium	UG/L	50	125	0.65 J	1.3 B	2.6 J	3.1 J
Cobalt	UG/L	-	6.9 B	6.0 J	0.97 B		
Copper	UG/L	200		5.0 J			4.2 J
Iron	UG/L	300	3,680	4,240	2,940	5,400	5,590
Lead	UG/L	25		4.2 J			
Magnesium	UG/L	35000	189,000	198,000	48,300	80,100	80,100
Manganese	UG/L	300	434	386	588	1,000	995
Nickel	UG/L	100			7.6 B	3.6 J	3.8 J
Potassium	UG/L	-	49,200 J	40,600	21,100 J	14,500	14,400
Selenium	UG/L	10	18.3 B	26.7 J		15.7 J	15.9 J
Silver	UG/L	50					
Sodium	UG/L	20000	1,760,000	1,940,000	285,000	199,000	204,000
Thallium	UG/L	0.5					
Vanadium	UG/L	-			1.8 B	3.1 J	3.3 J
Zinc	UG/L	2000					21.8
Miscellaneous Parameters							
Cyanide, Total	UG/L	200	1,140	1,140	37.6	20.9	16.0 J

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

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B (inorganics) - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 4-8A
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN AUGUST 2015 OVERBURDEN GROUNDWATER SAMPLES
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
1,1,2,2-Tetrachloroethane	UG/L	5	18	1	22.00	22.00	22.00	1	MWMF-04
1,1,2-Trichloroethane	UG/L	1	18	2	2.40	120.0	61.20	2	MWMF-04
1,1-Dichloroethane	UG/L	5	18	2	1.60	9.40	5.50	1	MWMF-04
1,2-Dichloroethane	UG/L	0.6	18	6	2.00	150.0	37.73	6	MWMF-04
1,2-Dichloroethene (cis)	UG/L	5	18	10	1.40	3,800	442.6	6	MW-03
1,2-Dichloroethene (trans)	UG/L	5	18	3	1.70	140.0	48.20	1	MWMF-04
1,2-Dichloropropane	UG/L	1	18	1	5.20	5.20	5.20	1	MWMF-04
Acetone	UG/L	50	18	4	27.00	280.0	127.3	3	MWMF-04
Benzene	UG/L	1	18	11	7.80	1,700	267.5	11	MWMF-08
Bromodichloromethane	UG/L	50	18	1	1.20	1.20	1.20	0	MWMF-04
Bromomethane	UG/L	5	18	1	140.0	140.0	140.0	1	MWMF-04
Carbon disulfide	UG/L	60	18	4	3.40	110.0	63.10	2	MWMF-05
Chlorobenzene	UG/L	5	18	2	1.00	1.20	1.10	0	MWMF-04
Chloroethane	UG/L	5	18	1	80.00	80.00	80.00	1	MWMF-04
Chloroform	UG/L	7	18	2	5.10	77.00	41.05	1	MWMF-04
Chloromethane	UG/L	5	18	5	1.20	720.0	147.4	2	MWMF-04
Cyclohexane	UG/L	-	18	6	1.40	6.00	3.12	0	MWMF-01

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.


 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-8A
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN AUGUST 2015 OVERBURDEN GROUNDWATER SAMPLES
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
Ethylbenzene	UG/L	5	18	9	1.00	2,600	379.7	5	MWMF-08
Isopropylbenzene	UG/L	5	18	10	1.50	130.0	25.84	6	MWMF-08
Methyl tert-butyl ether	UG/L	10	18	4	1.40	25.00	11.85	2	MWMF-01
Methylcyclohexane	UG/L	-	18	4	1.90	3.70	2.45	0	MWMF-07S
Methylene chloride	UG/L	5	18	4	2.60	320.0	87.60	3	MWMF-04
Styrene	UG/L	5	18	1	1.00	1.00	1.00	0	MWMF-06
Tetrachloroethene	UG/L	5	18	1	20.00	20.00	20.00	1	MWMF-04
Toluene	UG/L	5	18	9	1.40	450.0	68.82	3	MWMF-08
Trichloroethene	UG/L	5	18	1	9.60	9.60	9.60	1	MWMF-04
Vinyl chloride	UG/L	2	18	6	3.20	2,700	494.4	6	MW-03
Xylene (total)	UG/L	5	18	7	4.40	2,000	390.6	6	MWMF-08
Semivolatile Organic Compounds									
1,1'-Biphenyl	UG/L	5	18	5	2.30	32.00	11.58	4	MW-05
2,4,6-Trichlorophenol	UG/L	1	18	1	0.730	0.730	0.730	0	MWMF-06
2,4-Dichlorophenol	UG/L	5	18	1	1.20	1.20	1.20	0	MW-03
2,4-Dimethylphenol	UG/L	50	18	2	1.30	10.00	5.65	0	MWMF-08
2-Chlorophenol	UG/L	1	18	1	1.20	1.20	1.20	1	MWMF-06

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (including April 2000 and June 2004 addenda), Class GA.


 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-8A
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN AUGUST 2015 OVERBURDEN GROUNDWATER SAMPLES
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Semivolatile Organic Compounds									
2-Methylnaphthalene	UG/L	-	18	6	1.10	640.0	135.8	0	MW-05
2-Methylphenol (o-cresol)	UG/L	1	18	4	0.660	1.60	1.15	2	MWMF-05
2-Nitrophenol	UG/L	1	18	1	3.50	3.50	3.50	1	MWMF-04
3&4-Methylphenol (m,p-cresol)	UG/L	1	18	6	0.860	5.80	2.11	5	MW-05
4-Nitrophenol	UG/L	1	18	1	2.30	2.30	2.30	1	MWMF-04
Acenaphthene	UG/L	20	18	12	0.590	67.00	18.63	4	MW-01
Acenaphthylene	UG/L	-	18	5	1.00	38.00	9.68	0	MW-05
Acetophenone	UG/L	-	18	4	13.00	600.0	178.5	0	MWMF-04
Anthracene	UG/L	50	18	5	0.620	6.90	3.24	0	MW-05
Benzaldehyde	UG/L	-	18	2	2.30	180.0	91.15	0	MWMF-04
Benzo(a)anthracene	UG/L	0.002	18	2	0.950	0.970	0.960	2	MW-03
Benzo(a)pyrene	UG/L	0	18	2	0.690	0.950	0.820	2	MW-05
Benzo(b)fluoranthene	UG/L	0.002	18	2	0.710	0.920	0.815	2	MW-03
bis(2-Ethylhexyl)phthalate	UG/L	5	18	12	0.660	6.60	1.79	1	MW-11
Carbazole	UG/L	-	18	6	0.920	46.00	10.14	0	MW-01
Chrysene	UG/L	0.002	18	2	0.920	1.00	0.960	2	MW-03
Dibenzofuran	UG/L	-	18	6	0.940	38.00	8.51	0	MW-01

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (including April 2000 and June 2004 addenda), Class GA.


 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-8A
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN AUGUST 2015 OVERBURDEN GROUNDWATER SAMPLES
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Semivolatile Organic Compounds									
Diethylphthalate	UG/L	50	18	1	0.500	0.500	0.500	0	MWMF-06
Dimethylphthalate	UG/L	50	18	17	1.70	4.60	2.92	0	MWMF-05
Fluoranthene	UG/L	50	18	4	2.50	6.60	4.43	0	MW-01
Fluorene	UG/L	50	18	9	0.610	33.00	9.89	0	MW-05
Naphthalene	UG/L	10	18	8	8.80	5,700	1,291	6	MW-05
Phenanthrene	UG/L	50	18	7	0.840	39.00	13.33	0	MW-01
Phenol	UG/L	1	18	8	0.640	6.90	2.07	5	MWMF-08
Pyrene	UG/L	50	18	4	2.30	7.70	4.65	0	MW-06
Metals									
Aluminum	UG/L	-	18	8	107.0	4.42E+05	6.83E+04	0	MWMF-04
Arsenic	UG/L	25	18	3	6.70	47.60	21.37	1	MWMF-04
Barium	UG/L	1000	18	13	29.00	1,790	383.4	1	MW-02
Beryllium	UG/L	3	18	3	0.440	41.40	16.78	2	MWMF-04
Cadmium	UG/L	5	18	3	1.30	10.40	4.37	1	MWMF-04
Calcium	UG/L	-	18	18	7.30E+04	8.63E+05	3.02E+05	0	MWMF-07D
Chromium	UG/L	50	18	10	0.780	771.0	109.1	3	MWMF-04
Cobalt	UG/L	-	18	9	0.990	930.0	136.6	0	MWMF-04

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (including April 2000 and June 2004 addenda), Class GA.


 Concentration Exceeds Criteria

Only Detected Results Reported.

**TABLE 4-8A
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN AUGUST 2015 OVERBURDEN GROUNDWATER SAMPLES
EAST 138th STREET WORKS SITE**

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Metals									
Copper	UG/L	200	18	13	4.40	1,520	144.0	1	MWMF-04
Iron	UG/L	300	18	18	511.0	1.43E+06	1.54E+05	18	MWMF-05
Lead	UG/L	25	18	11	5.90	40.60	22.28	5	MWMF-05
Magnesium	UG/L	35000	18	18	1.07E+04	8.12E+05	1.56E+05	12	MWMF-04
Manganese	UG/L	300	18	18	650.0	3.83E+04	7,995	18	MWMF-08
Mercury	UG/L	0.7	18	2	0.037	0.100	0.069	0	MWMF-04
Nickel	UG/L	100	18	16	0.860	3,610	512.1	6	MWMF-04
Potassium	UG/L	-	18	18	8,650	8.25E+04	3.98E+04	0	MWMF-05
Selenium	UG/L	10	18	13	12.20	44.20	22.04	13	MWMF-06
Silver	UG/L	50	18	2	7.00	11.80	9.40	0	MWMF-05
Sodium	UG/L	20000	18	18	3.75E+04	5.85E+06	1.27E+06	18	MWMF-04
Thallium	UG/L	0.5	18	5	18.00	56.20	34.46	5	MWMF-05
Vanadium	UG/L	-	18	17	1.70	757.0	129.3	0	MWMF-06
Zinc	UG/L	2000	18	8	7.00	4,780	1,365	2	MWMF-05
Miscellaneous Parameters									
Cyanide, Total	UG/L	200	18	13	7.90	898.0	247.8	6	MWMF-01

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.


 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-8B
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN MARCH 2012 BEDROCK GROUNDWATER SAMPLES
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
1,2-Dichloroethene (cis)	UG/L	5	5	4	220.0	7,100	3,830	4	BW-02
Benzene	UG/L	1	5	5	1.10E+04	4.40E+04	2.38E+04	5	BW-03
Ethylbenzene	UG/L	5	5	5	780.0	2,700	1,396	5	BW-03
Styrene	UG/L	5	5	2	2,600	4,300	3,450	2	BW-01
Toluene	UG/L	5	5	5	300.0	1.40E+04	9,460	5	BW-02
Vinyl chloride	UG/L	2	5	3	200.0	990.0	710.0	3	BW-02
Xylene (total)	UG/L	5	5	5	1,100	8,600	5,400	5	BW-02
Semivolatile Organic Compounds									
1,1'-Biphenyl	UG/L	5	5	5	5.50	28.00	18.50	5	BW-01
2,4-Dimethylphenol	UG/L	50	5	1	1,500	1,500	1,500	1	BW-02
2-Methylnaphthalene	UG/L	-	5	5	8.20	510.0	307.6	0	BW-01
2-Methylphenol (o-cresol)	UG/L	1	5	5	13.00	1,300	541.8	5	BW-02
3&4-Methylphenol (m,p-cresol)	UG/L	1	5	5	12.00	2,400	751.2	5	BW-02
Acenaphthene	UG/L	20	5	5	5.60	18.00	10.70	0	BW-03
Acenaphthylene	UG/L	-	5	5	5.10	190.0	78.06	0	BW-01
Acetophenone	UG/L	-	5	2	2.40	11.00	6.70	0	BW-04
Anthracene	UG/L	50	5	4	5.20	8.10	6.55	0	BW-04

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.


 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-8B
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN MARCH 2012 BEDROCK GROUNDWATER SAMPLES
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Semivolatile Organic Compounds									
bis(2-Chloroethyl)ether	UG/L	1	5	1	70.00	70.00	70.00	1	BW-01
bis(2-Ethylhexyl)phthalate	UG/L	5	5	4	0.540	0.940	0.820	0	BW-01
Carbazole	UG/L	-	5	5	2.60	86.00	27.60	0	BW-01
Dibenzofuran	UG/L	-	5	5	0.900	21.00	8.12	0	BW-01
Fluoranthene	UG/L	50	5	4	1.50	4.00	2.65	0	BW-04
Fluorene	UG/L	50	5	5	4.40	31.00	17.68	0	BW-04
Naphthalene	UG/L	10	5	5	1,200	7,300	5,180	5	BW-02
Phenanthrene	UG/L	50	5	5	1.80	40.00	20.36	0	BW-04
Phenol	UG/L	1	5	5	7.30	1,200	469.3	5	BW-02
Pyrene	UG/L	50	5	4	1.60	4.00	2.48	0	BW-04
Metals									
Aluminum	UG/L	-	5	3	66.60	155.0	98.20	0	BW-04
Arsenic	UG/L	25	5	2	9.60	10.90	10.25	0	BW-02
Barium	UG/L	1000	5	5	41.00	139.0	87.32	0	BW-04
Cadmium	UG/L	5	5	1	1.40	1.40	1.40	0	BW-01
Calcium	UG/L	-	5	5	5.51E+04	4.96E+05	2.30E+05	0	BW-03
Chromium	UG/L	50	5	5	1.30	125.0	27.50	1	BW-03

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (including April 2000 and June 2004 addenda), Class GA.


 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-8B
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN MARCH 2012 BEDROCK GROUNDWATER SAMPLES
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Metals									
Cobalt	UG/L	-	5	5	0.970	11.00	6.31	0	BW-02
Iron	UG/L	300	5	5	2,940	3.84E+04	1.03E+04	5	BW-01
Magnesium	UG/L	35000	5	5	9,440	1.89E+05	6.61E+04	3	BW-03
Manganese	UG/L	300	5	5	44.80	1,780	578.4	3	BW-01
Nickel	UG/L	100	5	4	2.10	16.70	10.75	0	BW-02
Potassium	UG/L	-	5	5	2.11E+04	9.61E+04	5.83E+04	0	BW-02
Selenium	UG/L	10	5	1	18.30	18.30	18.30	1	BW-03
Sodium	UG/L	20000	5	5	2.18E+05	1.76E+06	5.77E+05	5	BW-03
Vanadium	UG/L	-	5	3	1.80	32.30	22.00	0	BW-02
Miscellaneous Parameters									
Cyanide, Total	UG/L	200	5	5	37.60	7,160	3,086	4	BW-02

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (including April 2000 and June 2004 addenda), Class GA.


 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-8C
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN AUGUST 2015 BEDROCK GROUNDWATER SAMPLES
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
1,1-Dichloroethene	UG/L	5	5	1	6.80	6.80	6.80	1	BW-02
1,2-Dichloroethane	UG/L	0.6	5	3	73.00	730.0	295.0	3	BW-02
1,2-Dichloroethene (cis)	UG/L	5	5	4	54.00	3,600	985.0	4	BW-02
1,2-Dichloroethene (trans)	UG/L	5	5	2	3.10	46.00	24.55	1	BW-02
4-Methyl-2-pentanone	UG/L	-	5	1	9.80	9.80	9.80	0	BW-02
Acetone	UG/L	50	5	2	28.00	480.0	254.0	1	BW-02
Benzene	UG/L	1	5	5	2,900	7.20E+04	2.98E+04	5	BW-03
Carbon disulfide	UG/L	60	5	2	1.00	3.80	2.40	0	BW-02
Chloromethane	UG/L	5	5	1	3.30	3.30	3.30	0	BW-02
Cyclohexane	UG/L	-	5	3	1.00	7.00	3.90	0	BW-03
Ethylbenzene	UG/L	5	5	5	750.0	2,600	1,510	5	BW-03
Isopropylbenzene	UG/L	5	5	5	10.00	53.00	26.60	5	BW-03
Methyl tert-butyl ether	UG/L	10	5	4	1.40	23.00	8.83	1	BW-02
Methylcyclohexane	UG/L	-	5	4	1.40	4.50	2.70	0	BW-03
Methylene chloride	UG/L	5	5	2	1.10	1.20	1.15	0	BW-02
Styrene	UG/L	5	5	2	380.0	410.0	395.0	2	BW-04
Toluene	UG/L	5	5	5	100.0	1.30E+04	4,160	5	BW-01

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.


 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-8C
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN AUGUST 2015 BEDROCK GROUNDWATER SAMPLES
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
Trichloroethene	UG/L	5	5	2	1.00	1.00	1.00	0	BW-03
Vinyl chloride	UG/L	2	5	4	12.00	2,000	522.5	4	BW-02
Xylene (total)	UG/L	5	5	5	650.0	5,000	2,570	5	BW-01
Semivolatile Organic Compounds									
1,1'-Biphenyl	UG/L	5	5	5	4.10	33.00	17.42	4	BW-01
2,4-Dimethylphenol	UG/L	50	5	5	1.70	1,400	340.0	2	BW-02
2-Methylnaphthalene	UG/L	-	5	4	220.0	480.0	285.0	0	BW-01
2-Methylphenol (o-cresol)	UG/L	1	5	4	8.10	760.0	236.7	4	BW-02
3&4-Methylphenol (m,p-cresol)	UG/L	1	5	4	7.90	1,200	315.8	4	BW-02
3,3'-Dichlorobenzidine	UG/L	5	5	1	1.10	1.10	1.10	0	BW-02
Acenaphthene	UG/L	20	5	5	3.90	31.00	20.20	3	BW-04
Acenaphthylene	UG/L	-	5	5	4.70	140.0	65.54	0	BW-01
Acetophenone	UG/L	-	5	3	3.20	4.80	4.27	0	BW-04
Anthracene	UG/L	50	5	4	2.10	7.20	5.23	0	BW-04
bis(2-Ethylhexyl)phthalate	UG/L	5	5	3	0.700	2.50	1.37	0	BW-02
Carbazole	UG/L	-	5	5	2.30	76.00	23.94	0	BW-01
Dibenzofuran	UG/L	-	5	4	0.680	25.00	11.37	0	BW-01

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (including April 2000 and June 2004 addenda), Class GA.


 Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-8C
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN AUGUST 2015 BEDROCK GROUNDWATER SAMPLES
EAST 138th STREET WORKS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Semivolatile Organic Compounds									
Dimethylphthalate	UG/L	50	5	3	2.40	5.30	3.57	0	BW-04
Fluoranthene	UG/L	50	5	4	0.570	4.60	3.07	0	BW-04
Fluorene	UG/L	50	5	5	0.570	35.00	16.67	0	BW-01
Naphthalene	UG/L	10	5	5	370.0	6,100	2,814	5	BW-01
Phenanthrene	UG/L	50	5	5	1.40	39.00	23.34	0	BW-04
Phenol	UG/L	1	5	5	8.80	540.0	119.9	5	BW-02
Pyrene	UG/L	50	5	4	0.850	5.30	3.44	0	BW-04
Metals									
Aluminum	UG/L	-	5	2	529.0	674.0	601.5	0	BW-04
Barium	UG/L	1000	5	3	60.60	199.0	151.5	0	BW-04
Calcium	UG/L	-	5	5	1.13E+05	5.55E+05	3.00E+05	0	BW-02
Chromium	UG/L	50	5	4	0.650	10.50	4.21	0	BW-02
Cobalt	UG/L	-	5	2	3.20	6.00	4.60	0	BW-03
Copper	UG/L	200	5	4	4.20	47.60	15.93	0	BW-02
Iron	UG/L	300	5	5	4,240	8.41E+05	1.83E+05	5	BW-02
Lead	UG/L	25	5	2	4.20	27.00	15.60	1	BW-02
Magnesium	UG/L	35000	5	5	8.01E+04	3.15E+05	1.62E+05	5	BW-02

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (including April 2000 and June 2004 addenda), Class GA.


 Concentration Exceeds Criteria

Only Detected Results Reported.

**TABLE 4-8C
 STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN AUGUST 2015 BEDROCK GROUNDWATER SAMPLES
 EAST 138th STREET WORKS SITE**

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Metals									
Manganese	UG/L	300	5	5	386.0	6.87E+04	1.47E+04	5	BW-02
Nickel	UG/L	100	5	4	1.50	562.0	142.7	1	BW-02
Potassium	UG/L	-	5	5	1.44E+04	3.20E+05	8.49E+04	0	BW-02
Selenium	UG/L	10	5	5	15.70	28.50	21.92	5	BW-02
Silver	UG/L	50	5	1	10.80	10.80	10.80	0	BW-02
Sodium	UG/L	20000	5	5	1.99E+05	2.82E+06	1.15E+06	5	BW-02
Thallium	UG/L	0.5	5	1	69.00	69.00	69.00	1	BW-02
Vanadium	UG/L	-	5	4	3.10	799.0	203.0	0	BW-02
Zinc	UG/L	2000	5	2	16.70	21.80	19.25	0	BW-04
Miscellaneous Parameters									
Cyanide, Total	UG/L	200	5	5	16.00	1,880	655.0	3	BW-02

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 (including April 2000 and June 2004 addenda), Class GA.

 Concentration Exceeds Criteria

Only Detected Results Reported.

**TABLE 5-1
CONTAMINANTS EXCEEDING SOIL OR GROUNDWATER SCGS OR DETECTED IN SOIL VAPOR
EAST 138th STREET WORKS SITE**

Parameter	Matrix		
	Subsurface Soil	Groundwater	Soil Vapor
Volatile Organic Compounds			
1,1,2,2-Tetrachloroethane	--	X	--
1,1,2-Trichloro-1,2,2-trifluoroethane	--	--	D
1,1,2-Trichloroethane	--	X	--
1,2,4-Trichlorobenzene	--	--	--
1,1-Dichloroethane	--	X	--
1,1-Dichloroethene	--	X	D
1,2-Dichlorobenzene	--	--	--
1,2-Dichloroethane	--	X	--
1,2-Dichloroethene (cis)	X	X	D
1,2-Dichloroethene (trans)	--	X	D
1,2-Dichloropropane	--	X	--
1,4-Dichlorobenzene	--	--	D
2,2,4-Trimethylpentane (Isooctane)	NA	NA	D
2,3-Dimethylpentane	NA	NA	D
2-Butanone	--	--	D
2-Hexanone	--	--	D
2-Methylpentane	--	--	D
4-Methyl-2-pentanone	--	--	D
Acetone	X	X	D
Benzene	X	X	D
Bromodichloromethane	--	--	--
Bromomethane	--	X	--
Carbon disulfide	--	X	D
Chlorobenzene	--	--	--
Chloroethane	--	X	D
Chloroform	--	X	D
Chloromethane	--	X	--
Cyclohexane	--	--	D
Dichlorodifluoromethane	--	--	D
Ethylbenzene	X	X	D
Indane	NA	NA	D
Isopentane	NA	NA	D
Isopropylbenzene (Cumene)	X	X	D
Methyl acetate	--	--	--
Methyl tert-butyl ether	--	X	D
Methylcyclohexane	--	--	D
Methylene chloride	--	X	D
Styrene	X	X	D
Tetrachloroethene	--	X	D
Toluene	X	X	D
Trichloroethene	--	X	D
Trichlorofluoromethane	--	--	D
Vinyl chloride	--	X	D
Xylene (total)	X	X	D
Semivolatile Organic Compounds			
1,1'-Biphenyl	X	X	NA
2,4,6-Trichlorophenol	--	--	NA
2,4-Dichlorophenol	--	--	NA
2,4-Dimethylphenol	--	X	NA
2,6-Dinitrotoluene	X	--	NA
2-Chloronaphthalene	--	--	NA

**TABLE 5-1
CONTAMINANTS EXCEEDING SOIL OR GROUNDWATER SCGS OR DETECTED IN SOIL VAPOR
EAST 138th STREET WORKS SITE**

Parameter	Matrix		
	Subsurface Soil	Groundwater	Soil Vapor
2-Chlorophenol	--	X	NA
2-Methylnaphthalene	X	--	NA
2-Methylphenol (o-cresol)	X	X	NA
2-Nitrophenol	--	X	NA
3&4-Methylphenol (m,p-cresol)	X	X	NA
3,3'-Dichlorobenzidine	--	X	NA
4-Nitrophenol	--	X	NA
Acenaphthene	X	X	NA
Acenaphthylene	X	--	NA
Acetophenone	--	--	NA
Anthracene	X	--	NA
Benzaldehyde	--	--	NA
Benzo(a)anthracene	X	X	NA
Benzo(a)pyrene	X	X	NA
Benzo(b)fluoranthene	X	X	NA
Benzo(g,h,i)perylene	X	--	NA
Benzo(k)fluoranthene	X	--	NA
bis(2-chloroethyl)ether	--	X	NA
bis(2-Ethylhexyl)phthalate	--	X	NA
Butylbenzylphthalate	--	--	NA
Carbazole	--	--	NA
Chrysene	X	X	NA
Dibenz(a,h)anthracene	X	--	NA
Dibenzofuran	X	--	NA
Diethylphthalate	--	--	NA
Dimethylphthalate	--	--	NA
Di-n-butylphthalate	X	--	NA
Di-n-octylphthalate	--	--	NA
Fluoranthene	X	--	NA
Fluorene	X	--	NA
Indeno(1,2,3-cd)pyrene	X	--	NA
Naphthalene	X	X	NA
Phenanthrene	X	--	NA
Phenol	X	X	NA
Pyrene	X	--	NA
Metals			
Aluminum	X	--	NA
Antimony	--	--	NA
Arsenic	X	X	NA
Barium	X	X	NA
Beryllium	--	X	NA
Cadmium	X	X	NA
Calcium	X	--	NA
Chromium	X	X	NA
Cobalt	X	--	NA
Copper	X	X	NA
Iron	X	X	NA
Lead	X	X	NA
Magnesium	--	X	NA
Manganese	--	X	NA
Mercury	X	--	NA
Nickel	X	X	NA

**TABLE 5-1
CONTAMINANTS EXCEEDING SOIL OR GROUNDWATER SCGS OR DETECTED IN SOIL VAPOR
EAST 138th STREET WORKS SITE**

Parameter	Matrix		
	Subsurface Soil	Groundwater	Soil Vapor
Potassium	--	--	NA
Selenium	X	X	NA
Silver	--	--	NA
Sodium	--	X	NA
Thallium	--	X	NA
Vanadium	X	--	NA
Zinc	X	X	NA
Miscellaneous			
Chloride	NA	X	NA
Cyanide (total)	--	X	NA

-- - Not detected or not detected above the applicable standard, criteria or guidance value.

D - Detected in one or more samples. There are no applicable standard, criteria or guidance values.

NA - Not analyzed.

ND - Not Detected

X - Detected above the applicable standard, criteria or guidance value in one or more samples.

TABLE 6-1
CONTAMINANTS OF POTENTIAL CONCERN IN SAMPLES COLLECTED
EAST 138th STREET WORKS FORMER MGP SITE

Parameter	Matrix		
	Subsurface Soil	Groundwater	Soil Vapor
Volatile Organic Compounds			
1,1,2,2-Tetrachloroethane	--	X	--
1,1,2-Trichloroethane	--	X	--
1,1-Dichloroethane	--	X	--
1,1-Dichloroethene	--	X	D
1,2-Dichloroethane	--	X	--
1,2-Dichloroethene (cis)	X	X	D
1,2-Dichloroethene (trans)	--	X	D
1,2-Dichloropropane	--	X	--
Acetone	X	X	D
Benzene	X	X	D
Bromomethane	--	X	--
Carbon disulfide	--	X	D
Chloroethane	--	X	D
Chloroform	--	X	D
Chloromethane	--	X	--
Ethylbenzene	X	X	D
Isopropylbenzene (Cumene)	X	X	D
Methyl tert-butyl ether	--	X	D
Methylene chloride	--	X	D
Styrene	X	X	D
Tetrachloroethene	--	X	D
Toluene	X	X	D
Trichloroethene	--	X	D
Vinyl chloride	--	X	D
Xylene (total)	X	X	D
Semivolatile Organic Compounds			
1,1'-Biphenyl	X	X	NA
2,4-Dimethylphenol	--	X	NA
2,6-Dinitrotoluene	X	--	NA
2-Chlorophenol	--	X	NA
2-Methylnaphthalene	X	--	NA
2-Methylphenol (o-cresol)	X	X	NA
2-Nitrophenol	--	X	NA
3&4-Methylphenol (m,p-cresol)	X	X	NA
3,3'-Dichlorobenzidine	--	X	NA
4-Nitrophenol	--	X	NA
Acenaphthene	X	X	NA
Acenaphthylene	X	--	NA
Anthracene	X	--	NA
Benzo(a)anthracene	X	X	NA
Benzo(a)pyrene	X	X	NA
Benzo(b)fluoranthene	X	X	NA
Benzo(g,h,i)perylene	X	--	NA
Benzo(k)fluoranthene	X	--	NA
bis(2-chloroethyl)ether	--	X	NA
bis(2-Ethylhexyl)phthalate	--	X	NA

**TABLE 6-1
CONTAMINANTS OF POTENTIAL CONCERN IN SAMPLES COLLECTED
EAST 138th STREET WORKS FORMER MGP SITE**

Parameter	Matrix		
	Subsurface Soil	Groundwater	Soil Vapor
Chrysene	X	X	NA
Dibenz(a,h)anthracene	X	--	NA
Dibenzofuran	X	--	NA
Di-n-butylphthalate	X	--	NA
Fluoranthene	X	--	NA
Fluorene	X	--	NA
Indeno(1,2,3-cd)pyrene	X	--	NA
Naphthalene	X	X	NA
Phenanthrene	X	--	NA
Phenol	X	X	NA
Pyrene	X	--	NA
Metals			
Aluminum	X	--	NA
Arsenic	X	X	NA
Barium	X	X	NA
Beryllium	--	X	NA
Cadmium	X	X	NA
Calcium	X	--	NA
Chromium	X	X	NA
Cobalt	X	--	NA
Copper	X	X	NA
Iron	X	X	NA
Lead	X	X	NA
Magnesium	--	X	NA
Manganese	--	X	NA
Mercury	X	--	NA
Nickel	X	X	NA
Selenium	X	X	NA
Sodium	--	X	NA
Thallium	--	X	NA
Vanadium	X	--	NA
Zinc	X	X	NA
Miscellaneous			
Chloride	NA	X	NA
Cyanide (total)	--	X	NA

NA - Not analyzed.

-- - Not detected or not detected above the applicable standard, criteria or guidance value.

D - Detected in one or more soil vapor samples

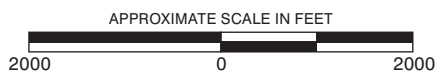
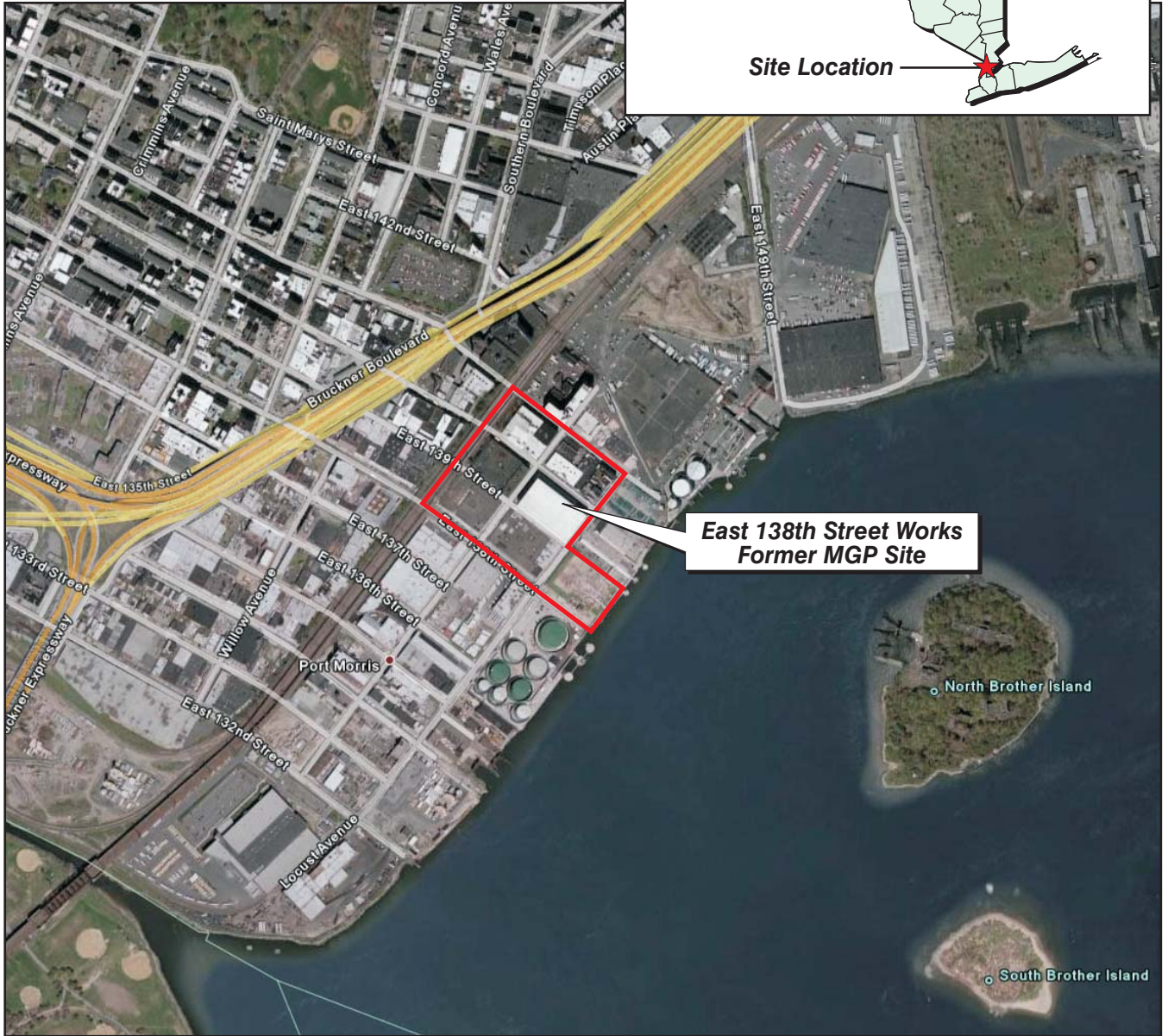
**TABLE 6-2
POTENTIAL PATHWAYS OF EXPOSURE
CURRENT USE SCENARIOS
EAST 138th STREET WORKS FORMER MGP SITE
BRONX, NY**

Potentially Contaminated Medium	Potential Routes of Exposure	Potential Receptors	Pathway Complete?
Surface Soil	Dermal absorption, ingestion.	Industrial workers, trespassers.	No. All surface soil at the site is covered by buildings or sidewalks.
Subsurface Soil	Dermal absorption, ingestion.	Industrial workers, trespassers.	No. Disturbance of subsurface soil not anticipated under current site conditions since buildings and sidewalks cover the entire area.
Soil Vapor	Inhalation of volatile contaminants from soil that have migrated into structures.	Industrial workers, customers/visitors.	Yes. There is an existing structure at the site in which potential exposure is possible, and CPCs were detected in soil beneath the building at Block 2598, Lot 46 and in the overburden groundwater.
Air	Inhalation of volatile contaminants from soil or fugitive dust.	Industrial workers, trespassers.	No. There are no intrusive activities anticipated under current site conditions that would result in potential exposure to contaminants in the subsurface soil or fugitive dust.
Groundwater	Dermal absorption, inhalation.	Industrial workers, trespassers.	No. Exposure to groundwater (i.e., the subsurface) not anticipated under current site conditions.
	Ingestion.	Industrial workers, local residents.	No. No current potable water use at or near site.
East River Surface Water	Dermal absorption, ingestion.	Secondary recreational users.	No. The East River is classified as Class I saline marine waters suitable for secondary contact for recreation and fishing - non contact recreational purposes.
East River Sediment	Dermal absorption, ingestion.	Secondary recreational users.	No. The East River is classified as Class I saline marine waters suitable for secondary contact for recreation and fishing - non contact recreational purposes.

**TABLE 6-3
POTENTIAL PATHWAYS OF EXPOSURE
FUTURE USE SCENARIO
EAST 138th SREET FORMER MGP SITE
BRONX, NY**

Potentially Contaminated Medium	Potential Routes of Exposure	Potential Receptors	Pathway Complete?
Surface Soil	Dermal absorption, ingestion.	Industrial workers, trespassers.	Yes. Disturbance of surface soil may occur under future site conditions during intrusive activities.
Subsurface Soil	Dermal absorption, ingestion.	Industrial workers, trespassers.	Yes. Disturbance of subsurface soil may occur under future site conditions during intrusive activities.
Soil Vapor	Inhalation of volatile contaminants from soil that have migrated into structures.	Industrial workers, residents.	Yes. There is an existing structure at the site in which potential exposure is possible, and CPCs were detected in soil beneath the building at Block 2598, Lot 46 and in the overburden groundwater.
Air	Inhalation of volatile contaminants from soil or fugitive dust.	Industrial workers, trespassers.	Yes. Intrusive activities under future site conditions could result in potential exposure to contaminants in the subsurface soil or fugitive dust.
Groundwater	Dermal absorption, inhalation.	Industrial workers, trespassers.	Yes. Exposure to groundwater (i.e., the subsurface) may occur under future site conditions during intrusive activities.
	Ingestion.	Industrial workers, residents.	No. Due to extensive public water supply systems in the area, no potable water use at or near the site is anticipated.
Surface Water	Dermal absorption, ingestion.	Industrial workers, trespassers, recreational users.	No. The East River is classified as Class I saline marine waters suitable for secondary contact for recreation and fishing - non contact recreational purposes.
Sediment	Dermal absorption, ingestion.	Industrial workers, trespassers, recreational users.	No. The East River is classified as Class I saline marine waters suitable for secondary contact for recreation and fishing - non contact recreational purposes.

FIGURES

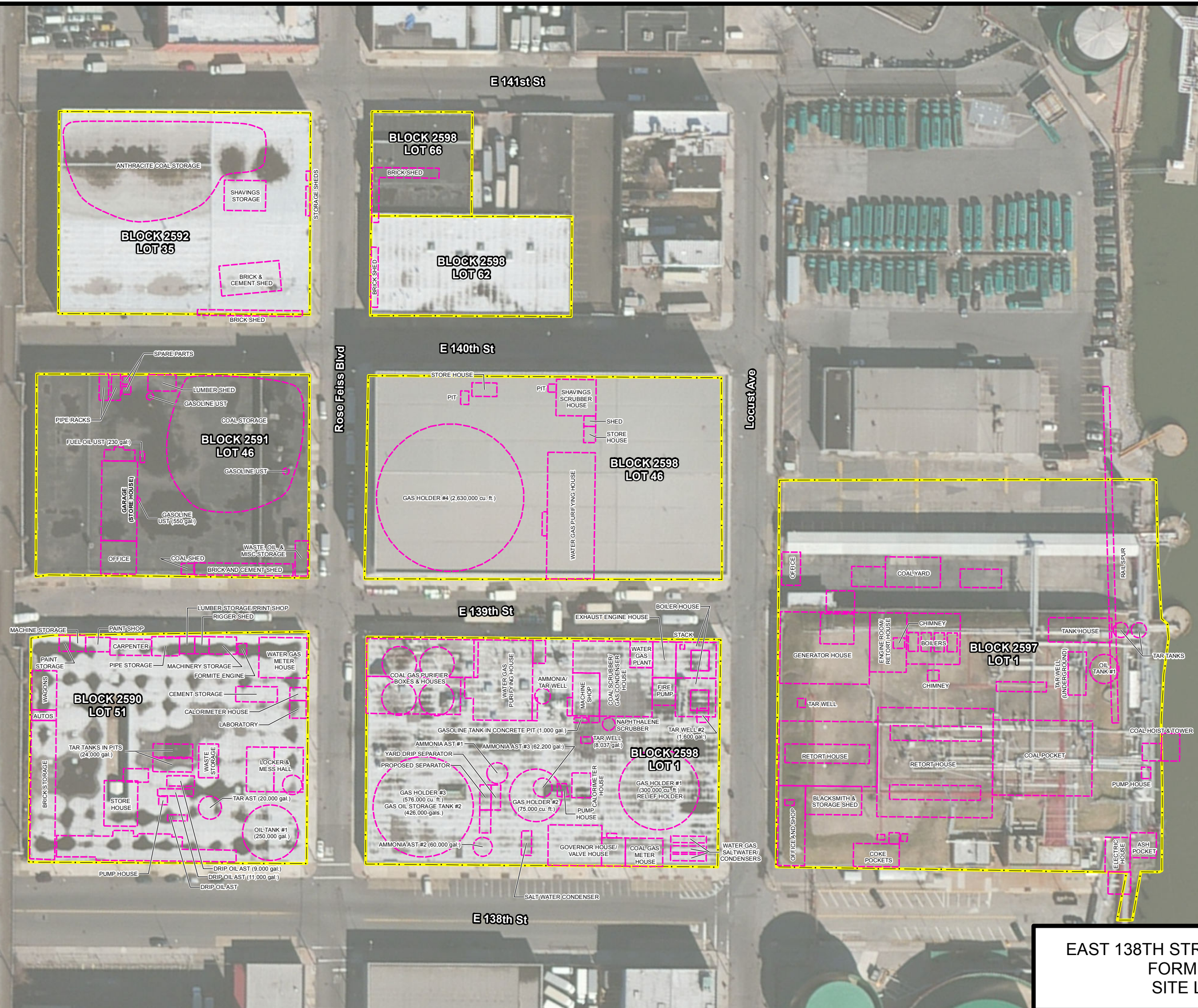


AG20003A-1175536-010416-GCM





**SITE LOCATION MAP
EAST 138TH STREET WORKS FORMER MGP
BRONX, NEW YORK**

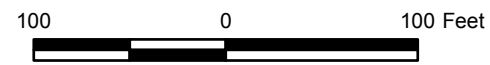
FIGURE 1-1



EAST RIVER

Legend

-  Block/Lot Boundary
-  Former MGP Structure



EAST 138TH STREET WORKS SITE
FORMER MGP
SITE LAYOUT



FIGURE 1-2

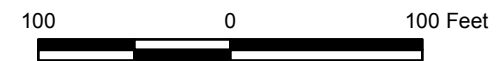


Legend

- Soil Boring
- ⊕ Monitoring Well
- Former MGP Structure

NOTE:

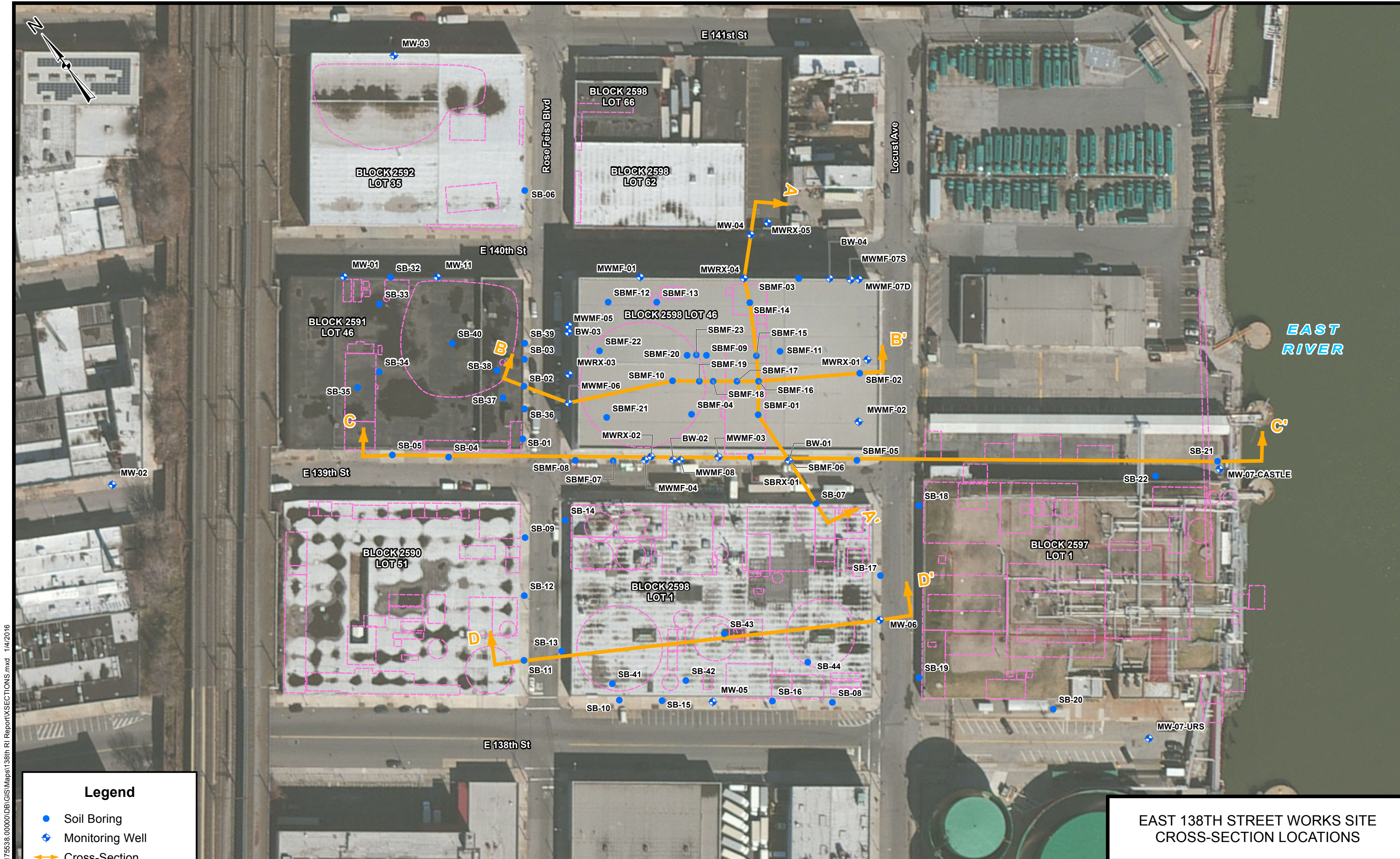
Boring locations depicted in Block 2598 Lot 46 are shown for reference only. Refer to the RI Report for the 295 Locust Avenue Site (URS, April 2012)



**EAST 138TH STREET WORKS SITE
SOIL BORING AND
MONITORING WELL LOCATIONS**



FIGURE 2-1



EAST RIVER

Legend

- Soil Boring
- ⊕ Monitoring Well
- Cross-Section
- ▭ Former MGP Structure

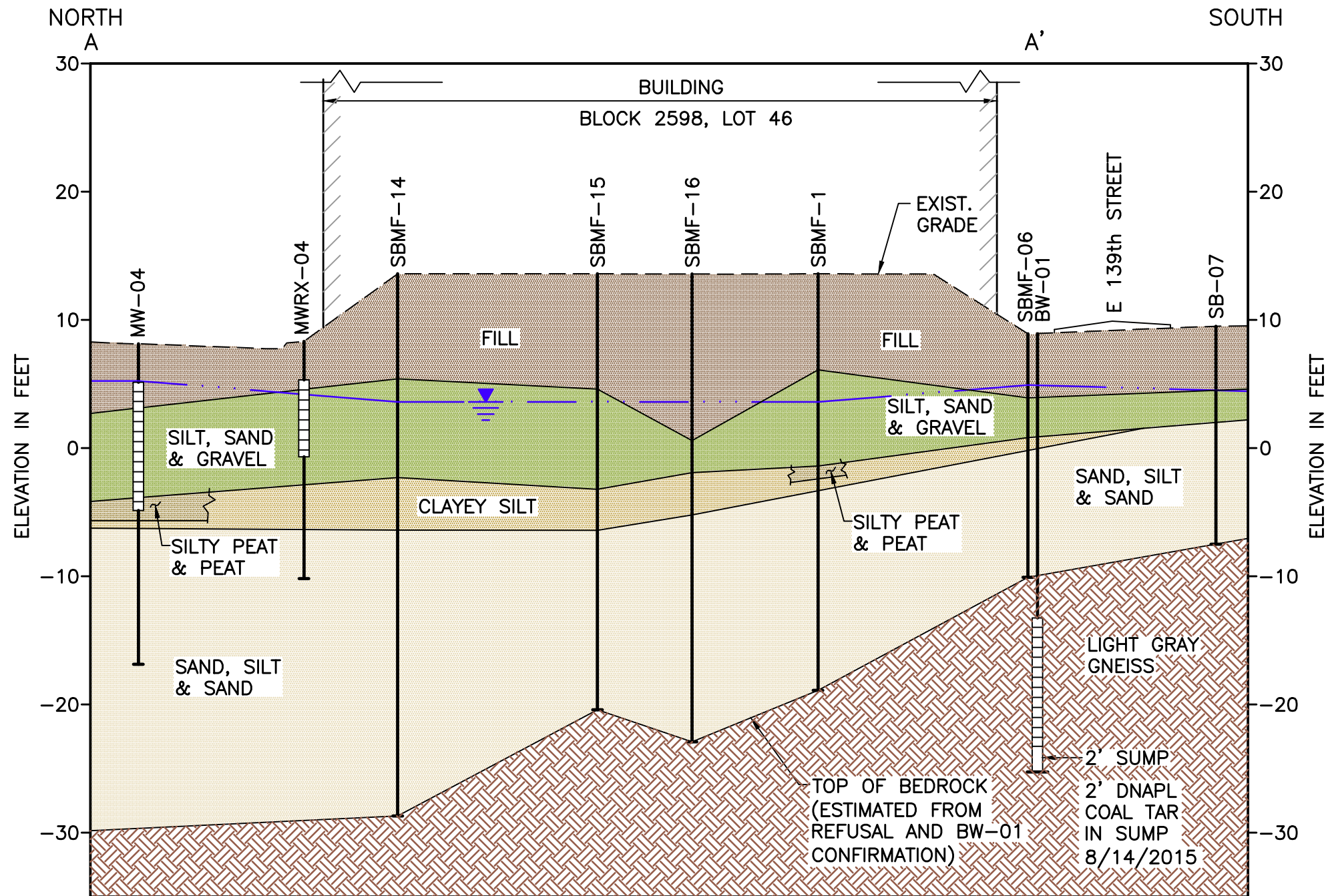
NOTE: Boring locations depicted in Block 2598 Lot 46 are shown for reference only. Refer to the RI Report for the 295 Locust Avenue Site (URS, April 2012)

EAST 138TH STREET WORKS SITE
CROSS-SECTION LOCATIONS



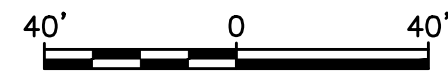
FIGURE 3-1

J:\Projects\1175538_00000\00\GIS\Map\138th RI_Report\XSECTIONS.mxd 1/4/2016

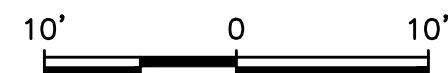


NOTES:

1. GEOLOGIC CONDITIONS SHOWN ARE REPRESENTATIVE OF CONDITIONS ENCOUNTERED AT EACH BORING LOCATION TO THE DEPTH DRILLED. EXTRAPOLATIONS BETWEEN BORINGS HAVE BEEN INTERPRETED USING STANDARDLY ACCEPTED GEOLOGIC PRACTICES AND PRINCIPLES. ACTUAL CONDITIONS MAY VARY BETWEEN BORINGS FROM THOSE SHOWN.
2. ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM, 1988.
3. THE DEPTH TO WATER WAS MEASURED IN ALL WELLS ON MAY 4, 2011.



HORIZ. SCALE IN FEET



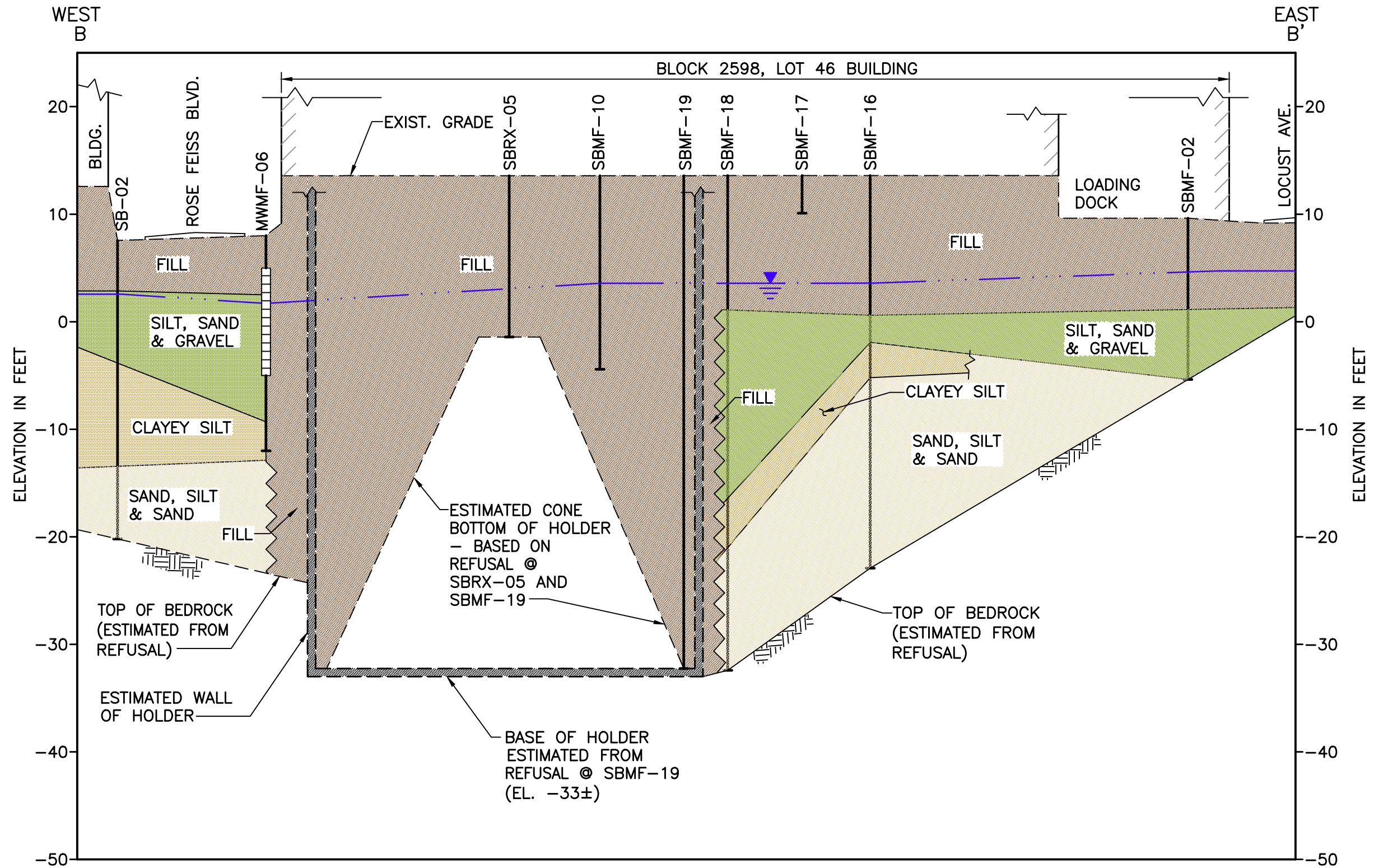
VERT. SCALE IN FEET

EAST 138th STREET WORKS SITE
 BLOCK 2598, LOT 46
 CROSS-SECTION A-A'



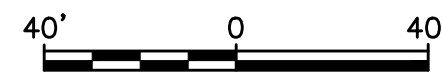
FIGURE 3-2

J:\Projects\11175538.00000\CAD\DEC 2015 SUBMITTAL\FIGURE 3-3.dwg, FIG 3-3, 1:1, 12/22/15 -1-RAL

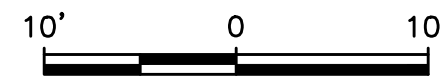


NOTES:

1. GEOLOGIC CONDITIONS SHOWN ARE REPRESENTATIVE OF CONDITIONS ENCOUNTERED AT EACH BORING LOCATION TO THE DEPTH DRILLED. EXTRAPOLATIONS BETWEEN BORINGS HAVE BEEN INTERPRETED USING STANDARDLY ACCEPTED GEOLOGIC PRACTICES AND PRINCIPLES. ACTUAL CONDITIONS MAY VARY BETWEEN BORINGS FROM THOSE SHOWN.
2. ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM, 1988.
3. THE DEPTH TO WATER WAS MEASURED IN ALL WELLS ON MAY 4, 2011.



HORIZ. SCALE IN FEET



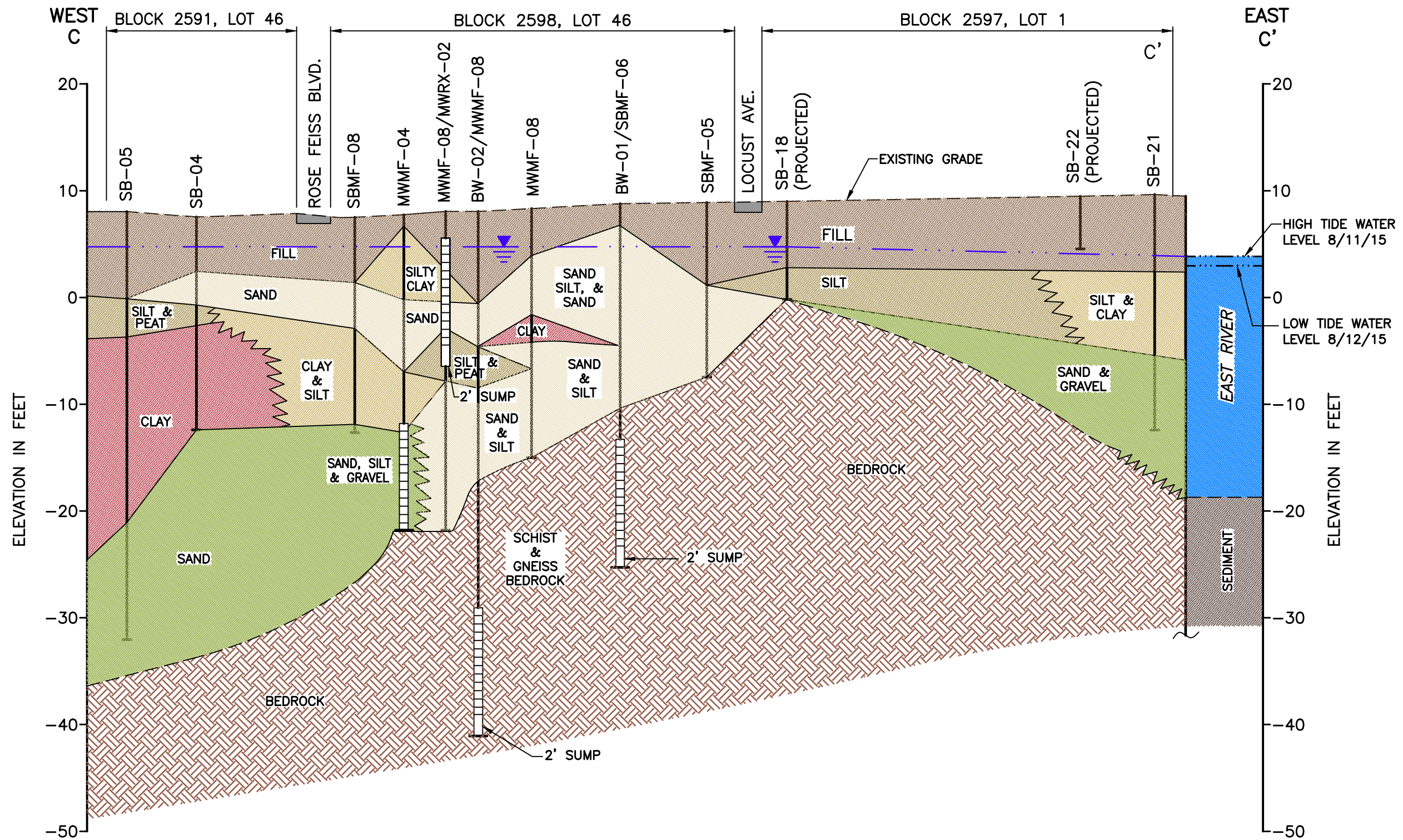
VERT. SCALE IN FEET

EAST 138th STREET WORKS SITE
BLOCK 2598, LOT 46
CROSS-SECTION B-B'



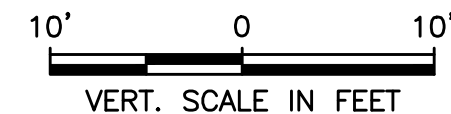
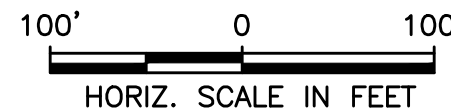
FIGURE 3-3

J:\Projects\11175538.00000\CAD\DEC 2015 SUBMITTAL\FIGURE 3-4 & 3-5.dwg, FIG 3-4, 1:1, 1/13/16 -1-RAL



NOTES:

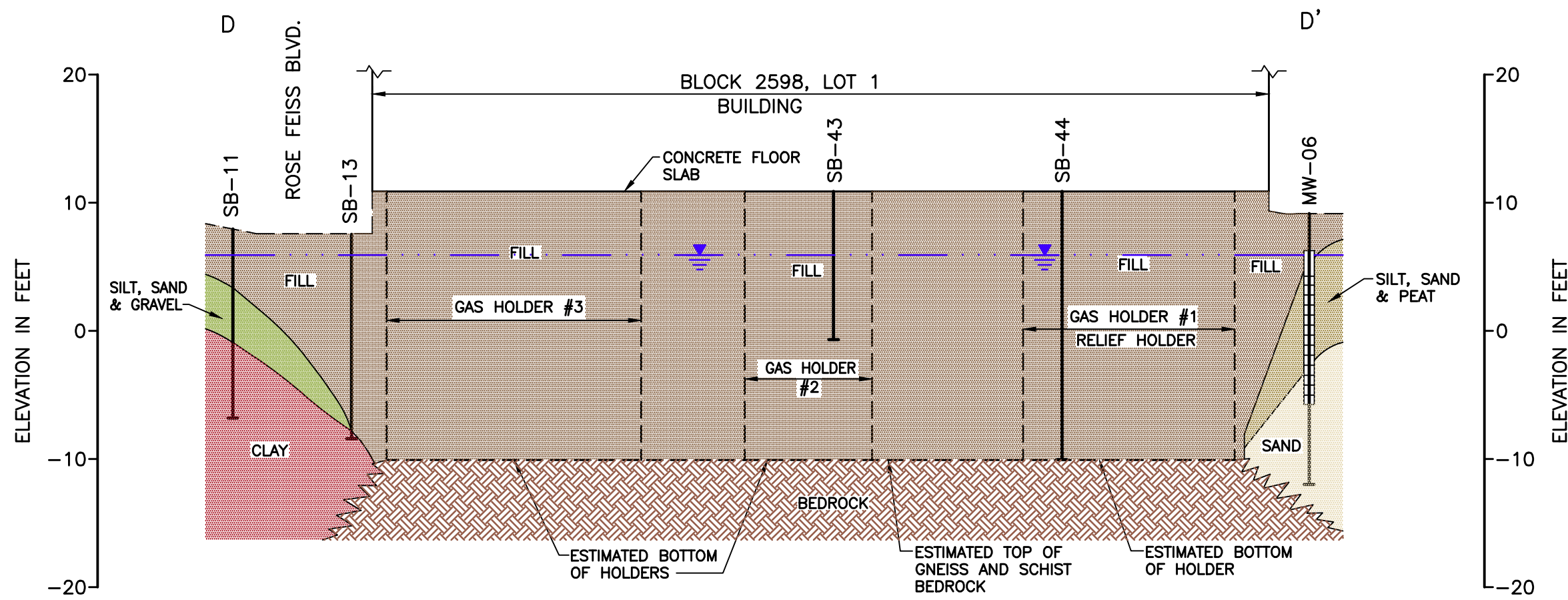
1. GEOLOGIC CONDITIONS SHOWN ARE REPRESENTATIVE OF CONDITIONS ENCOUNTERED AT EACH BORING LOCATION TO THE DEPTH DRILLED. EXTRAPOLATIONS BETWEEN BORINGS HAVE BEEN INTERPRETED USING STANDARDLY ACCEPTED GEOLOGIC PRACTICES AND PRINCIPLES. ACTUAL CONDITIONS MAY VARY BETWEEN BORINGS FROM THOSE SHOWN.
2. ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM, 1988.
3. THE DEPTH TO WATER WAS MEASURED IN ALL WELLS ON 8/11/2015.



EAST 138th STREET WORKS SITE
BLOCK 2591, LOT 46
BLOCK 2598, LOT 46
BLOCK 2597, LOT 1
CROSS-SECTION C-C'

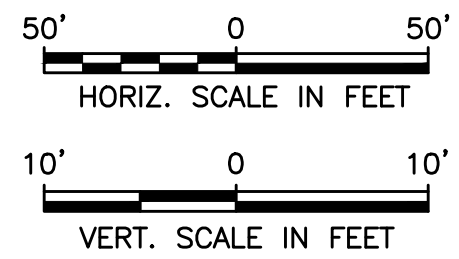


FIGURE 3-4



NOTES:

1. GEOLOGIC CONDITIONS SHOWN ARE REPRESENTATIVE OF CONDITIONS ENCOUNTERED AT EACH BORING LOCATION TO THE DEPTH DRILLED. EXTRAPOLATIONS BETWEEN BORINGS HAVE BEEN INTERPRETED USING STANDARDLY ACCEPTED GEOLOGIC PRACTICES AND PRINCIPLES. ACTUAL CONDITIONS MAY VARY BETWEEN BORINGS FROM THOSE SHOWN.
2. ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM, 1988.
3. THE DEPTH TO WATER WAS MEASURED IN ALL WELLS ON 8/11/2015.



<p>EAST 138th STREET WORKS SITE BLOCK 2598, LOT 1 CROSS-SECTION D-D'</p>	
<p>FIGURE 3-5</p>	

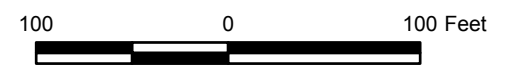
J:\Projects\11175538_00000\DB\GIS\Maps\138th RI Report\BEDROCK CONTOURS_REV.mxd 2/25/2016



Legend

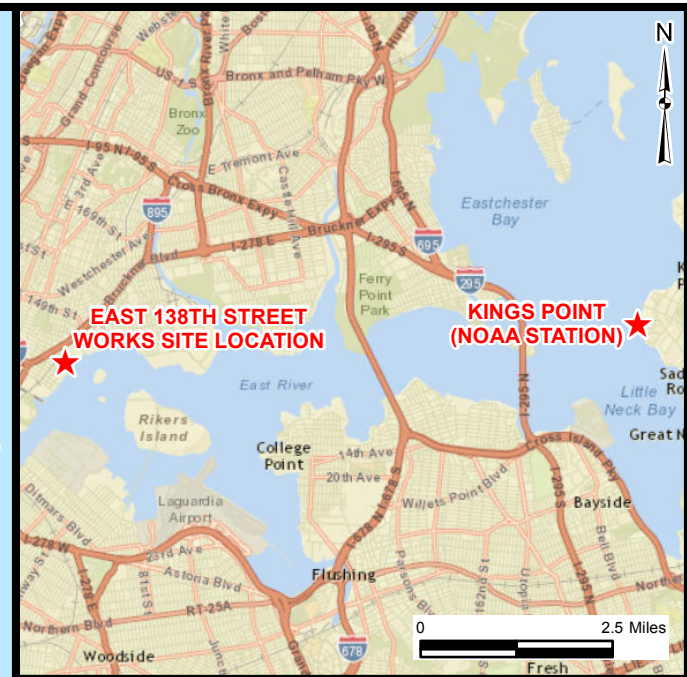
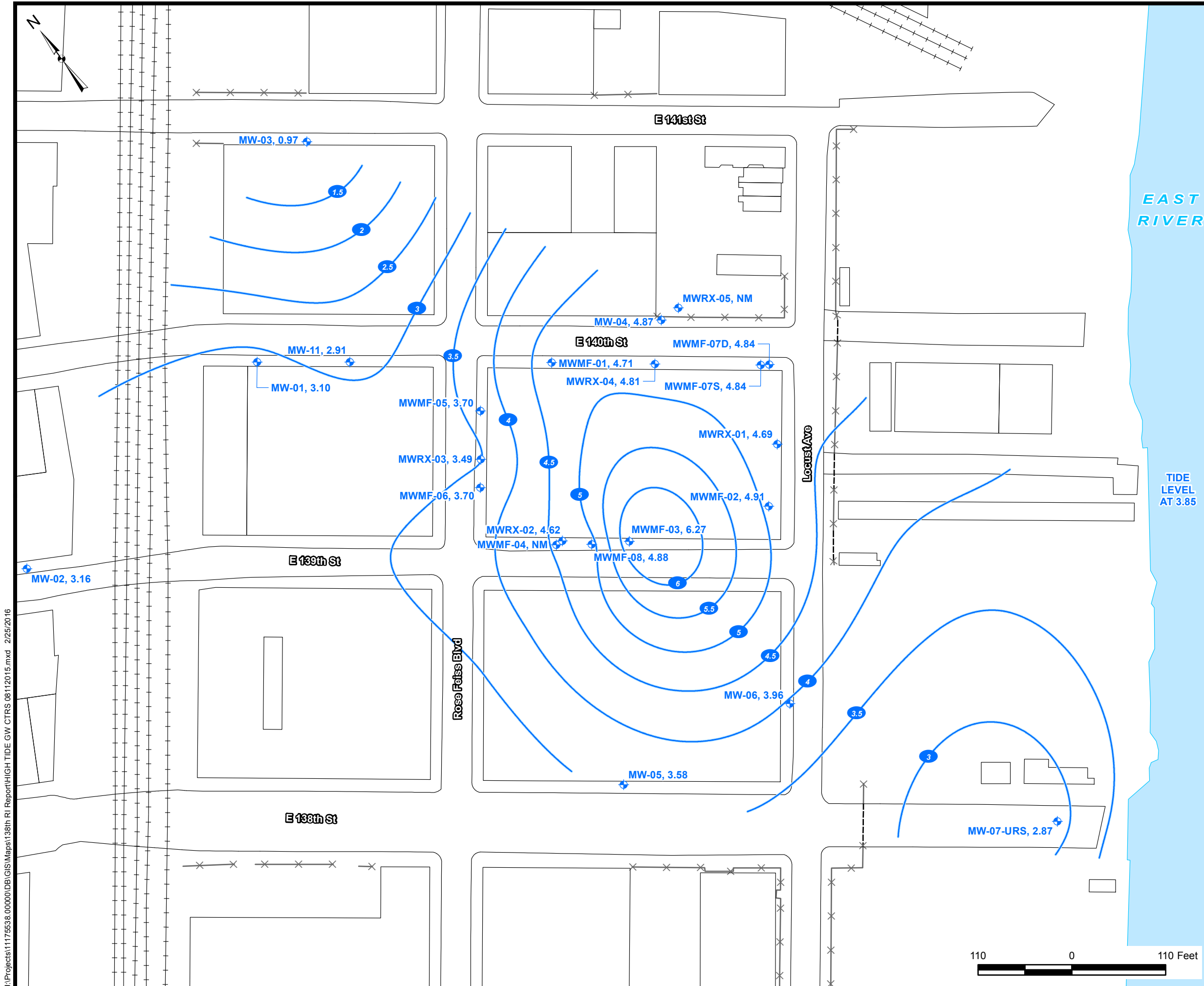
- Soil Boring
- ⊕ Monitoring Well
- 10- Top of Bedrock Contour (ft amsl)
- ▭ Former MGP Structure

NOTE:
 Bedrock surface elevations are estimated based upon drilling refusal at most locations.
 Bedrock surface elevations were confirmed at bedrock monitoring wells BW-01 through BW-04.



**EAST 138TH STREET WORKS SITE
 ESTIMATED TOP OF
 BEDROCK CONTOURS**

FIGURE 3-6



EAST RIVER

TIDE LEVEL AT 3.85

Legend

- ◆ Monitoring Well
- Groundwater Elevation Contours (FT AMSL)

High/Low Tides (8/11/2015)

Tide	Time (Local)	FT AMSL
Lower Low Water (LL):	04:42	-3.25
Lower High Water (H):	09:00	3.85
Higher Low Water (L):	16:18	-3.04
Higher High Water (HH):	22:30	4.82

Source: NOAA, Center for Operational Oceanographic Products and Services (CO-OPS), Tides & Currents Website data (verified) for Kings Point, NY (Station ID: 8516945)

NOTES:

1. Sampling Event Times: 08:22 - 13:33
2. FT AMSL = Feet Above Mean Sea Level
3. Kings Point NOAA Station is approximately 7.5 miles east of East 138th Street Works site.

SOURCE:

ESRI World Street Map

**EAST 138TH STREET WORKS SITE
OVERBURDEN GROUNDWATER
ELEVATION CONTOURS AT HIGH TIDE
(AUGUST 11, 2015)**

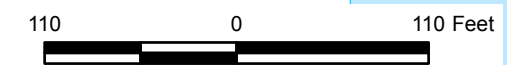
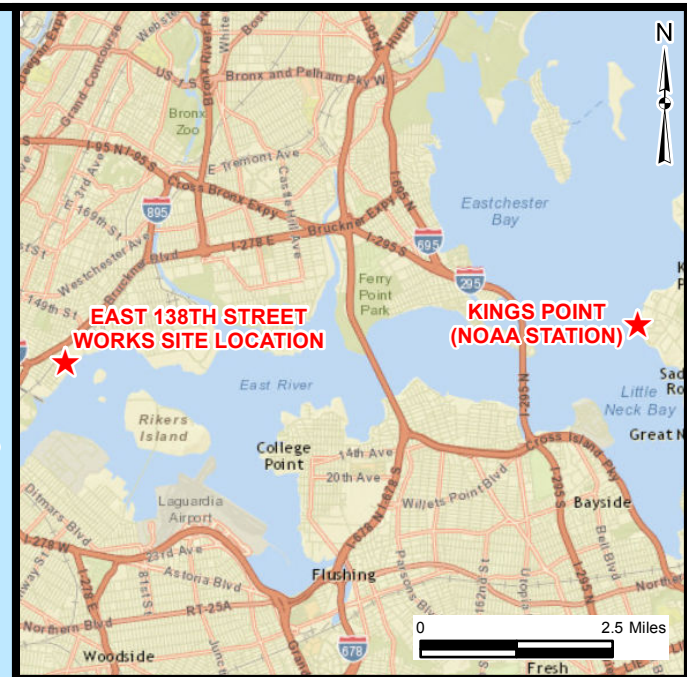
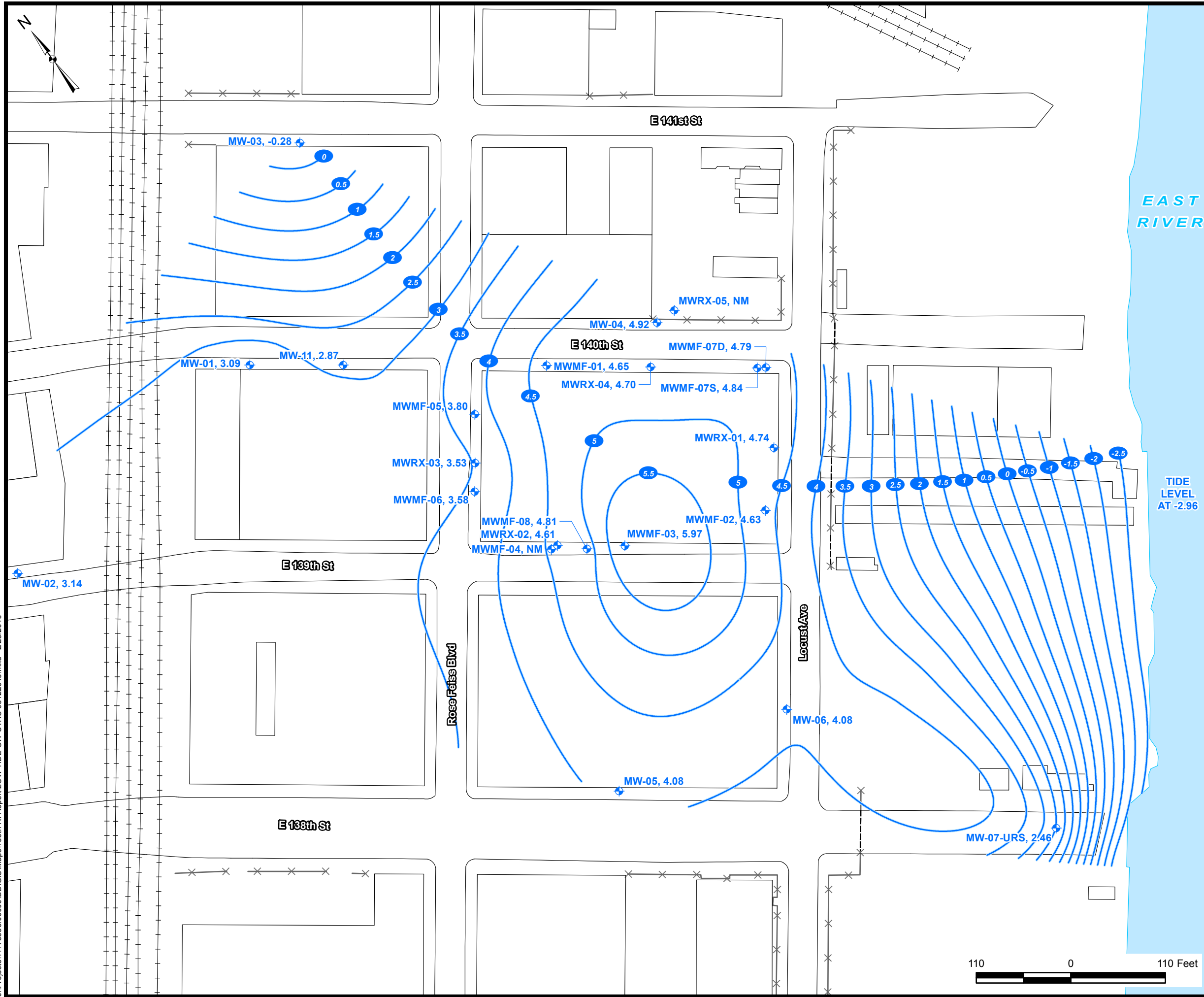


FIGURE 3-7

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J:\Projects\1175538_00000\00\GIS\Maps\138th RI Report\LOW TIDE GW CTRS 08122015.mxd 2/25/2016



EAST RIVER

TIDE LEVEL AT -2.96

Legend

- ◆ Monitoring Well
- Groundwater Elevation Contours (FT AMSL)

High/Low Tides (8/12/2015)

Tide	Time (Local)	FT AMSL
Lower Low Water (LL):	05:24	-3.33
Lower High Water (H):	11:06	4.00
Higher Low Water (L):	16:54	-2.96
Higher High Water (HH):	23:00	4.64

Source: NOAA, Center for Operational Oceanographic Products and Services (CO-OPS), Tides & Currents Website data (verified) for Kings Point, NY (Station ID: 8516945)

NOTES:

1. Sampling Event Times: 14:26 - 18:05
2. FT AMSL = Feet Above Mean Sea Level
3. Kings Point NOAA Station is approximately 7.5 miles east of East 138th Street Works site.

SOURCE:

ESRI World Street Map

**EAST 138TH STREET WORKS SITE
OVERBURDEN GROUNDWATER
ELEVATION CONTOURS AT LOW TIDE
(AUGUST 12, 2015)**

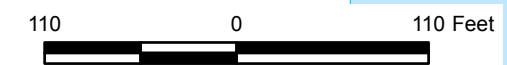
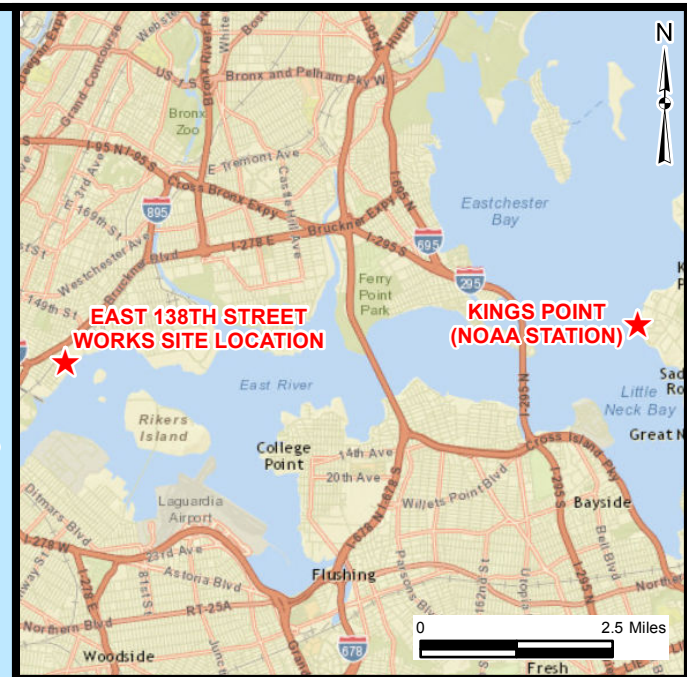
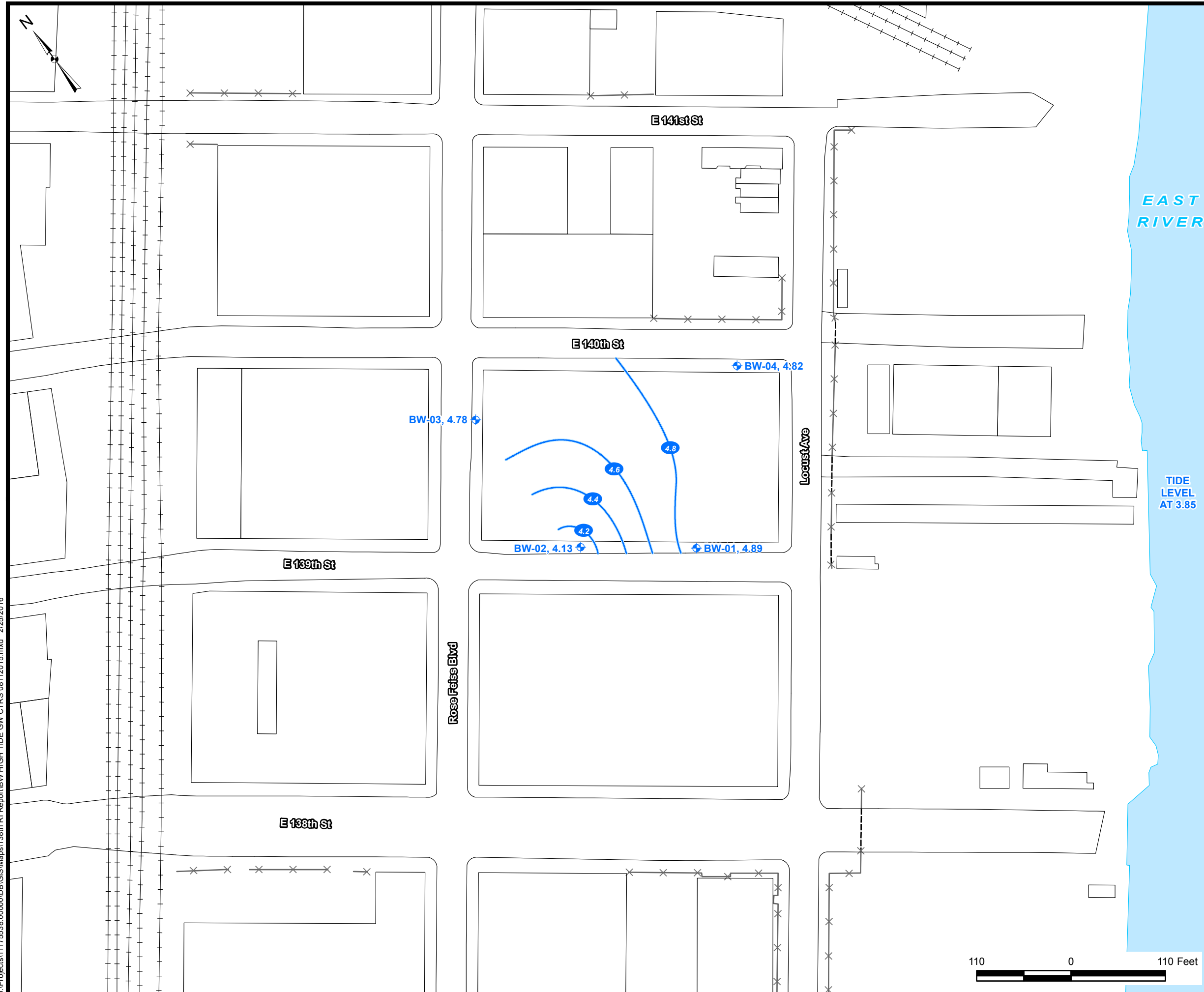


FIGURE 3-8

J:\Projects\1175538_00000\00\GIS\Map\138th RI Report\BW HIGH TIDE GW CTRS 08112015.mxd 2/25/2016



Legend

- ◆ Monitoring Well
- Groundwater Elevation Contours (FT AMSL)

High/Low Tides (8/11/2015)

Tide	Time (Local)	FT AMSL
Lower Low Water (LL):	04:42	-3.25
Lower High Water (H):	09:00	3.85
Higher Low Water (L):	16:18	-3.04
Higher High Water (HH):	22:30	4.82

Source: NOAA, Center for Operational Oceanographic Products and Services (CO-OPS), Tides & Currents Website data (verified) for Kings Point, NY (Station ID: 8516945)

NOTES:

1. Sampling Event Times: 08:22 - 13:33
2. FT AMSL = Feet Above Mean Sea Level
3. Kings Point NOAA Station is approximately 7.5 miles east of East 138th Street Works site.

SOURCE:

ESRI World Street Map

**EAST 138TH STREET WORKS SITE
BEDROCK GROUNDWATER
ELEVATION CONTOURS
AT HIGH TIDE (AUGUST 11, 2015)**

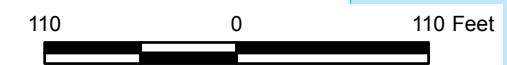
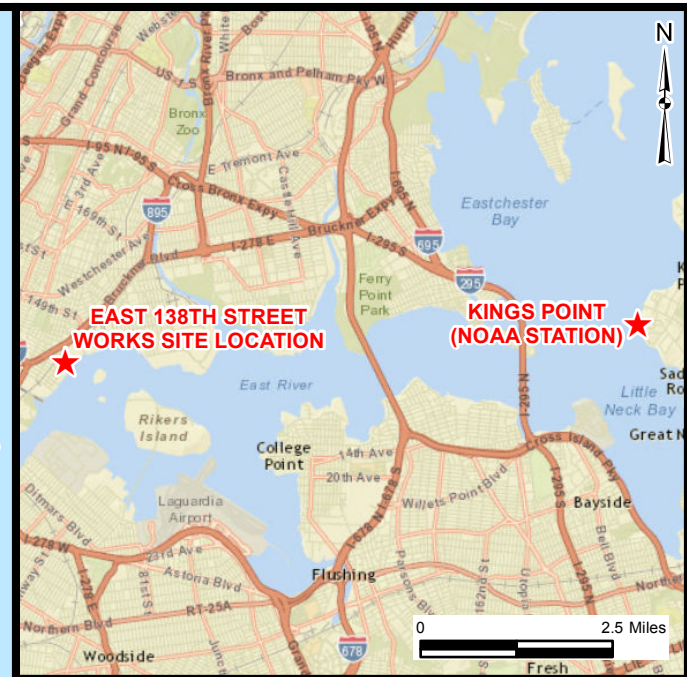
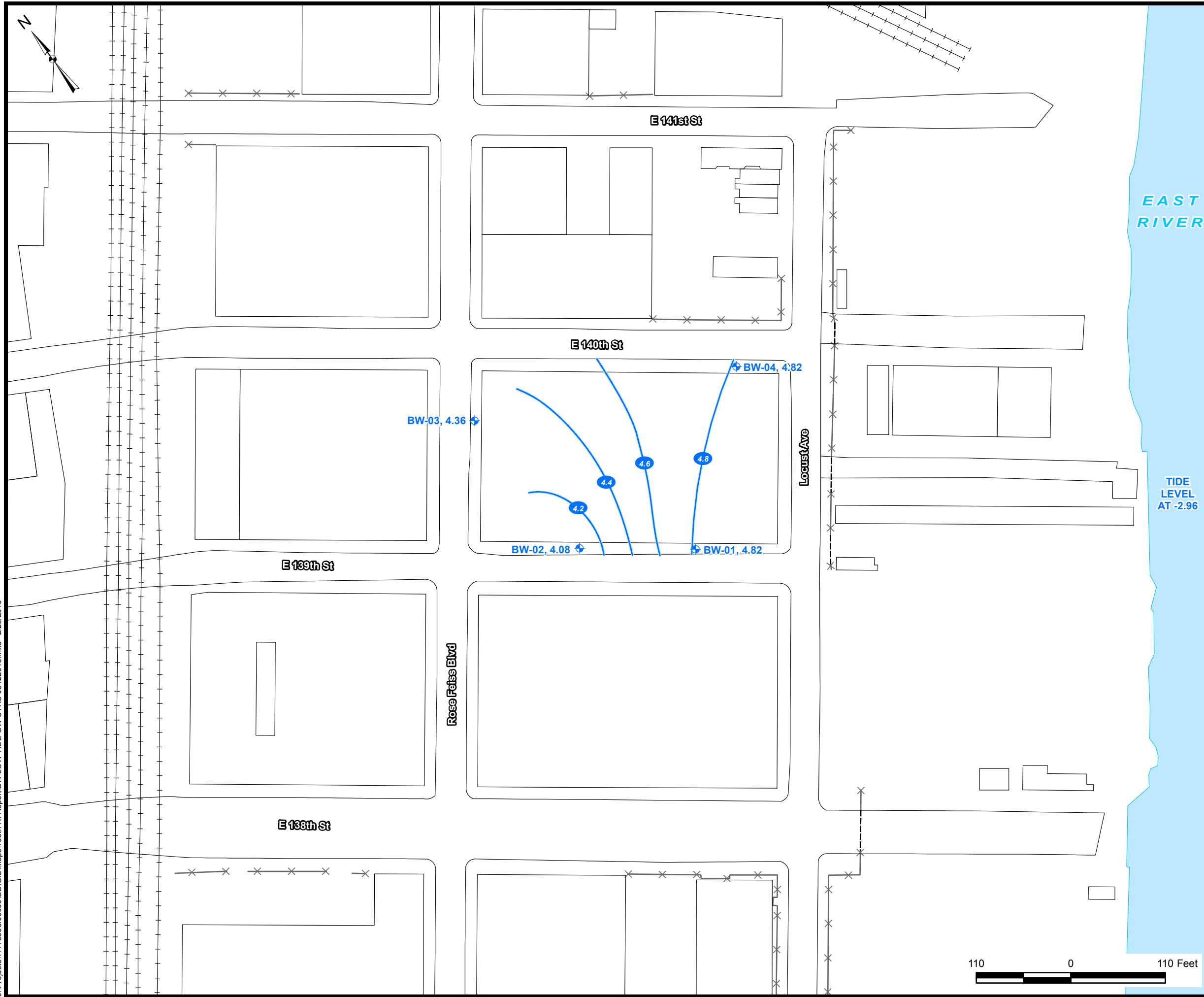




FIGURE 3-9

J:\Projects\1175538_00000\00\GIS\Maps\138th RI Report\BW_LOW TIDE GW CTRS 08122015.mxd 2/25/2016



Legend

-  Monitoring Well
-  Groundwater Elevation Contours (FT AMSL)

High/Low Tides (8/12/2015)

Tide	Time (Local)	FT AMSL
Lower Low Water (LL):	05:24	-3.33
Lower High Water (H):	11:06	4.00
Higher Low Water (L):	16:54	-2.96
Higher High Water (HH):	23:00	4.64

Source: NOAA, Center for Operational Oceanographic Products and Services (CO-OPS), Tides & Currents Website data (verified) for Kings Point, NY (Station ID: 8516945)

NOTES:

1. Sampling Event Times: 14:26 - 18:05
2. FT AMSL = Feet Above Mean Sea Level
3. Kings Point NOAA Station is approximately 7.5 miles east of East 138th Street Works site.

SOURCE:

ESRI World Street Map

**EAST 138TH STREET WORKS SITE
BEDROCK GROUNDWATER
ELEVATION CONTOURS
AT LOW TIDE (AUGUST 12, 2015)**

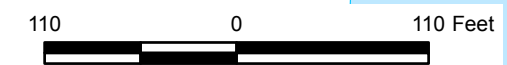


FIGURE 3-10

J:\Projects\11175538_00000\00\GIS\Maps\138th RI_Report\QUALITATIVE OBSERVATIONS.mxd 2/25/2016

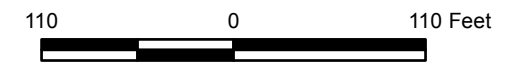


Legend

- Boring Location
- Former MGP Structure

Boring Log Observations

- Tar Saturated
- Coated Material, Lenses
- Hardened Tar
- Blebs, Globes, Sheen
- Staining, Odor
- Petroleum Impacts - Saturation and Sheens
- Petroleum Impacts - Staining and Odors
- Purifier Waste and Odor
- No Observed Impacts



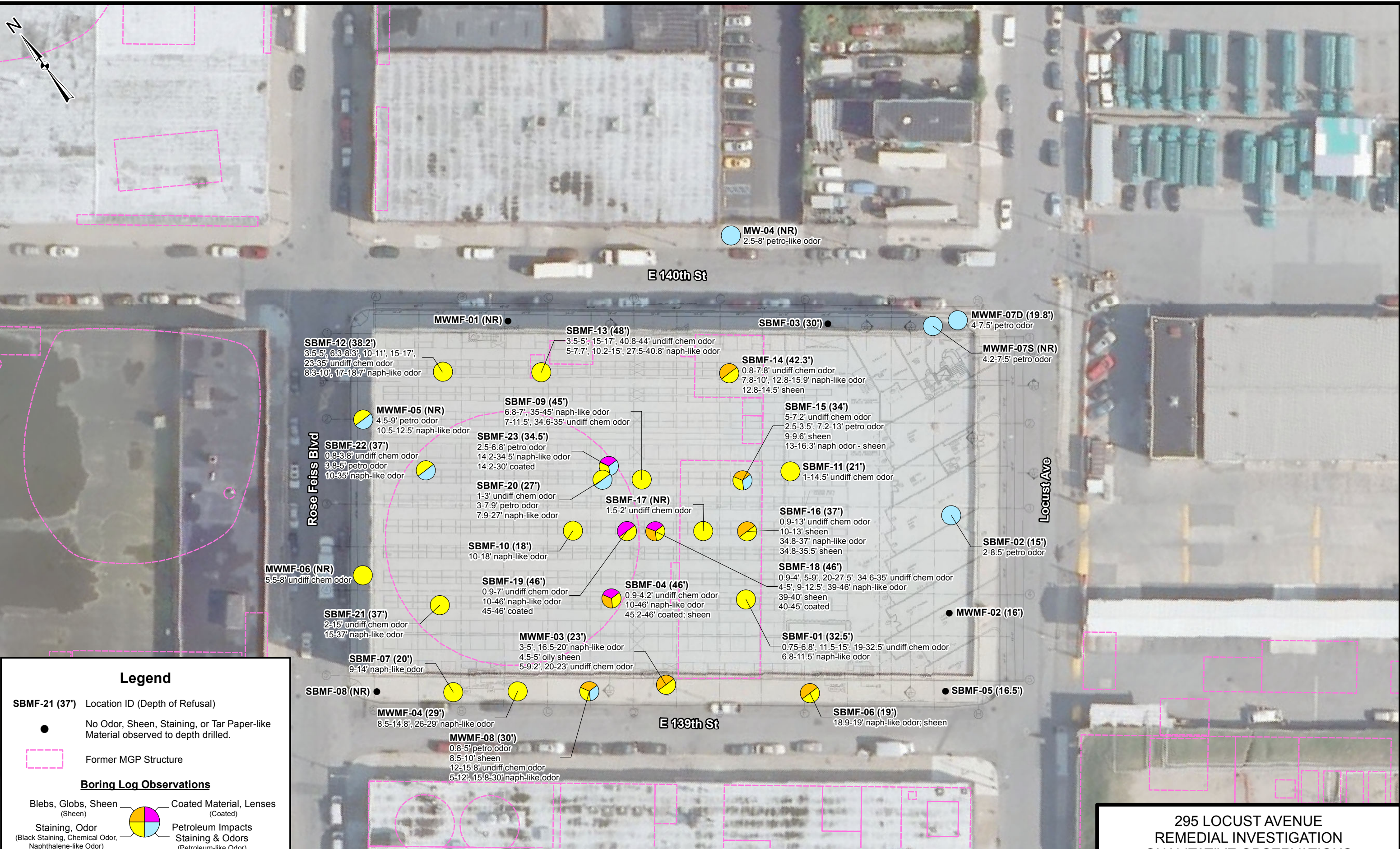
**EAST 138TH STREET WORKS SITE
REMEDIAL INVESTIGATION
QUALITATIVE OBSERVATIONS**

URS

FIGURE 3-11

EAST RIVER

J:\Projects\1175538_00000\00\GIS\Maps\295 Locust Ave RI Report\3-4 Qualitative Observations.mxd 2/25/2016



Legend

- SBMF-21 (37') Location ID (Depth of Refusal)
- No Odor, Sheen, Staining, or Tar Paper-like Material observed to depth drilled.
- Former MGP Structure

Boring Log Observations

- Blebs, Globbs, Sheen (Sheen)
- Staining, Odor (Black Staining, Chemical Odor, Naphthalene-like Odor)
- Coated Material, Lenses (Coated)
- Petroleum Impacts Staining & Odors (Petroleum-like Odor)

Example:

NYSDEC MGP Standardized Description (URS Description)

NOTE:
NR = No Refusal

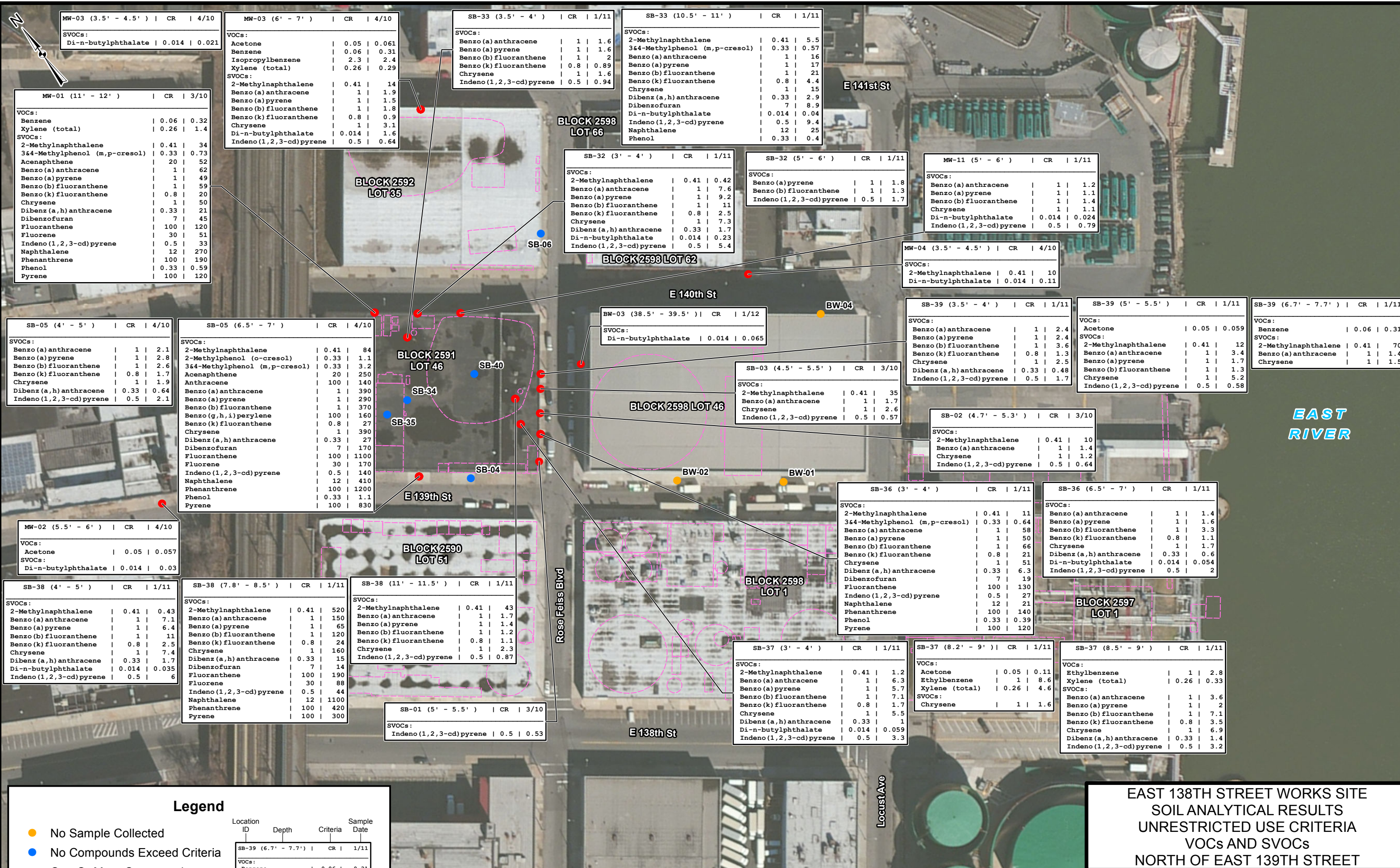


**295 LOCUST AVENUE
REMEDIAL INVESTIGATION
QUALITATIVE OBSERVATIONS**

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FIGURE 3-11A

J:\Projects\1175538_00000\DB\GIS\Maps\138th RI Report\SOIL ANALYTICAL UNRESTRICTED (NORTH).mxd 1/4/2016

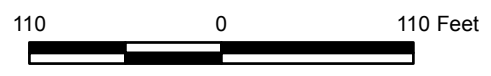


Legend

- No Sample Collected
- No Compounds Exceed Criteria
- One Or More Compounds Exceed Criteria

Location ID	Depth	Criteria	Sample Date
SB-39 (6.7' - 7.7')	CR	1/11	
VOCs:			
Benzene	0.06	0.31	
Compound			
Concentration (mg/kg)			

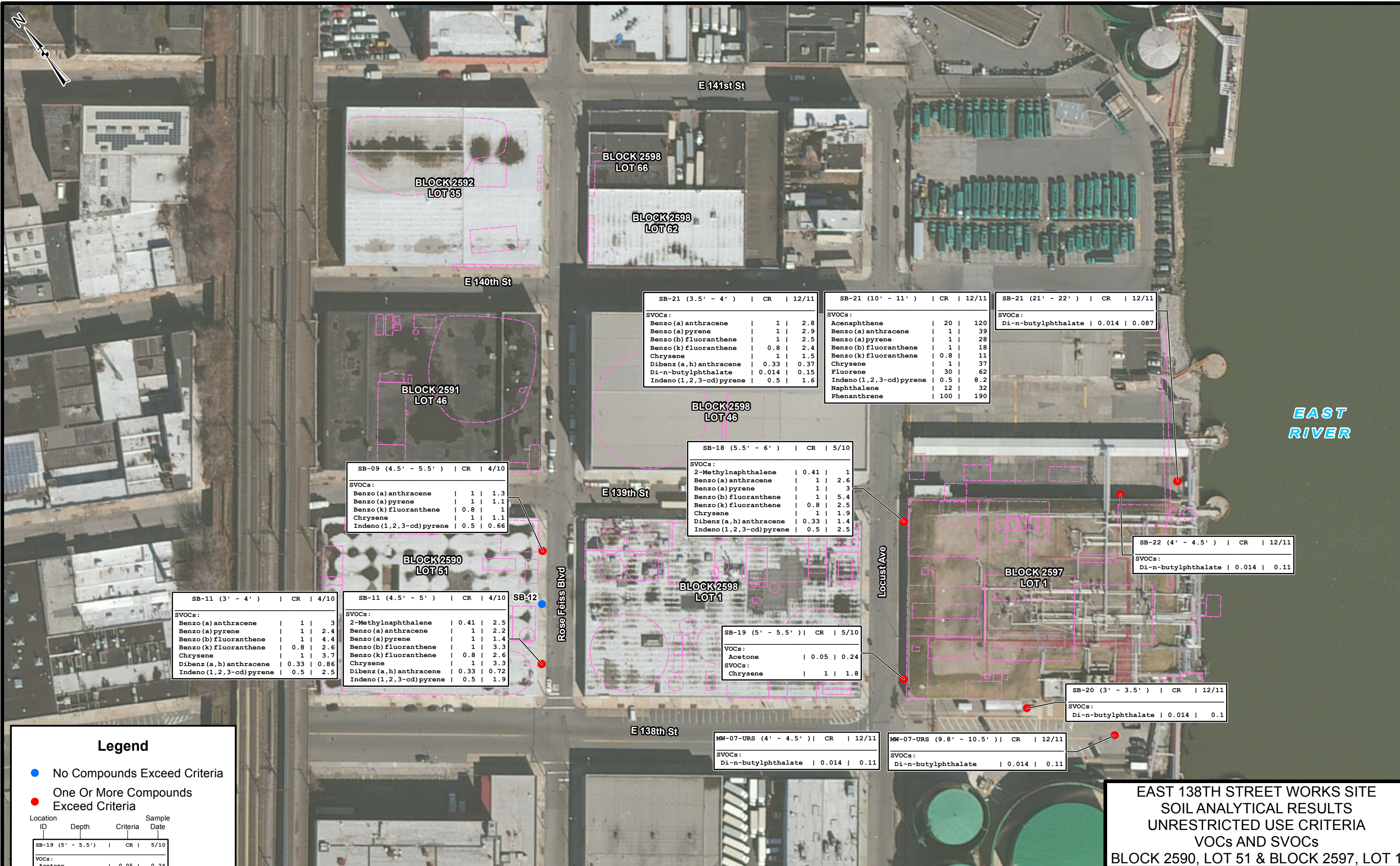
NOTE: 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.



**EAST 138TH STREET WORKS SITE
SOIL ANALYTICAL RESULTS
UNRESTRICTED USE CRITERIA
VOCs AND SVOCs
NORTH OF EAST 139TH STREET**

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FIGURE 4-1



EAST RIVER

Legend

- No Compounds Exceed Criteria
- One Or More Compounds Exceed Criteria

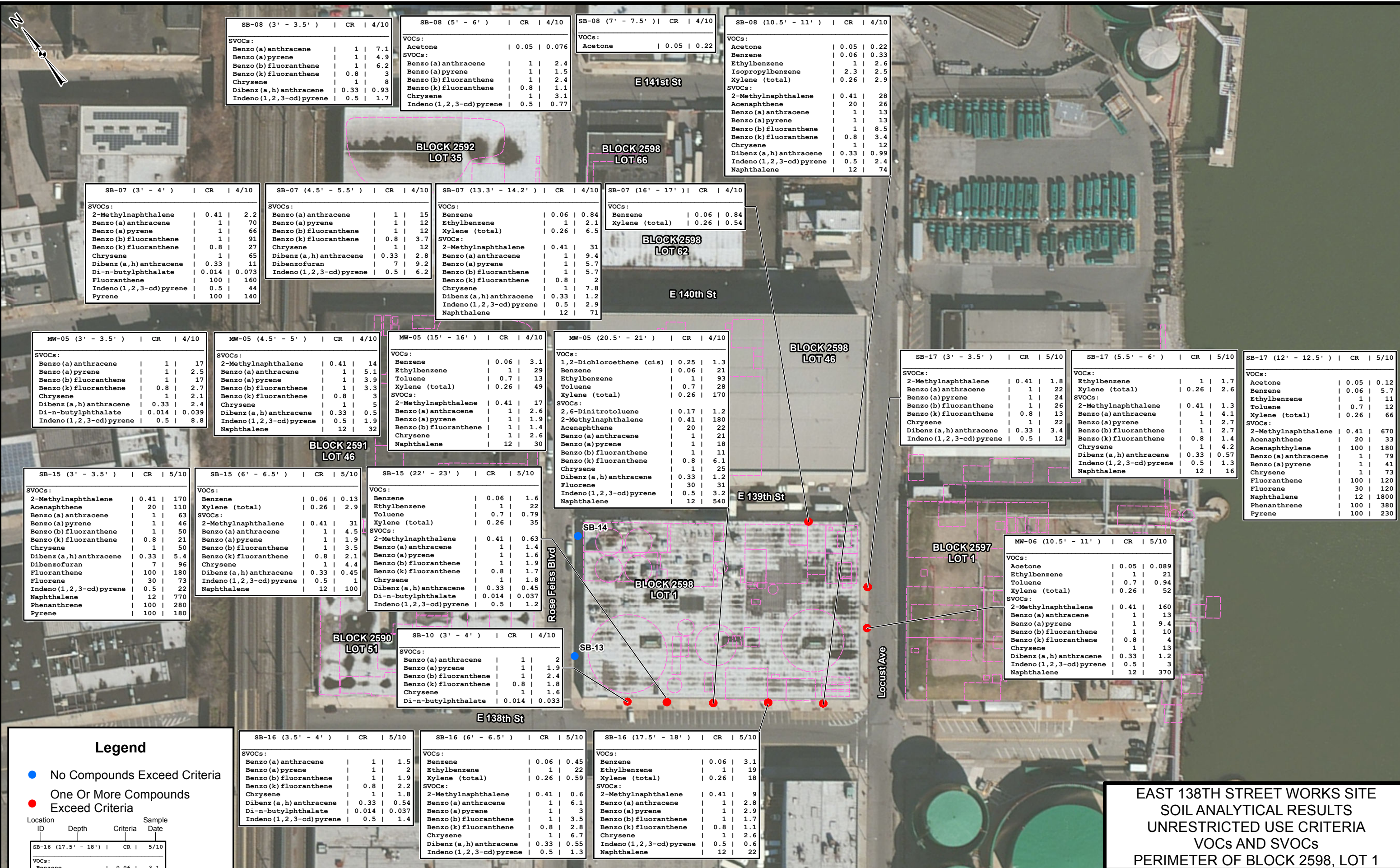
Location ID	Depth	Criteria	Sample Date
SB-19 (5' - 5.5')	CR	5/10	
VOCs:			
Acetone	0.05	0.24	
Compound	Concentration (mg/kg)		

NOTE: 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

EAST 138TH STREET WORKS SITE
SOIL ANALYTICAL RESULTS
UNRESTRICTED USE CRITERIA
VOCs AND SVOCs
BLOCK 2590, LOT 51 & BLOCK 2597, LOT 1



FIGURE 4-2



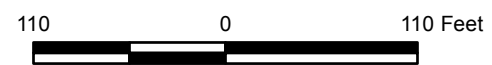
Legend

- No Compounds Exceed Criteria
- One Or More Compounds Exceed Criteria

Location ID	Depth	Criteria	Sample Date
SB-16 (17.5' - 18')	CR	5/10	
VOCs:			
Benzene	0.06	3.1	

Compound	Concentration (mg/kg)
Benzene	0.06 3.1

NOTE: 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.



EAST 138TH STREET WORKS SITE SOIL ANALYTICAL RESULTS UNRESTRICTED USE CRITERIA VOCs AND SVOCs PERIMETER OF BLOCK 2598, LOT 1



FIGURE 4-3

SB-08 (3' - 3.5') | CR | 4/10

VOCs:

Benzo (a) anthracene	1	7.1
Benzo (a) pyrene	1	4.9
Benzo (b) fluoranthene	1	6.2
Benzo (k) fluoranthene	0.8	3
Chrysene	1	8
Dibenz (a, h) anthracene	0.33	0.93
Indeno (1, 2, 3-cd) pyrene	0.5	1.7

SB-08 (5' - 6') | CR | 4/10

VOCs:

Acetone	0.05	0.076
---------	------	-------

SVOCs:

Benzo (a) anthracene	1	2.4
Benzo (a) pyrene	1	1.5
Benzo (b) fluoranthene	1	2.4
Benzo (k) fluoranthene	0.8	1.1
Chrysene	1	3.1
Indeno (1, 2, 3-cd) pyrene	0.5	0.77

SB-08 (7' - 7.5') | CR | 4/10

VOCs:

Acetone	0.05	0.22
---------	------	------

SB-08 (10.5' - 11') | CR | 4/10

VOCs:

Acetone	0.05	0.22
Benzene	0.06	0.33
Ethylbenzene	1	2.6
Isopropylbenzene	2.3	2.5
Xylene (total)	0.26	2.9

SVOCs:

2-Methylnaphthalene	0.41	28
Acenaphthene	20	26
Benzo (a) anthracene	1	13
Benzo (a) pyrene	1	13
Benzo (b) fluoranthene	1	8.5
Benzo (k) fluoranthene	0.8	3.4
Chrysene	1	12
Dibenz (a, h) anthracene	0.33	0.99
Indeno (1, 2, 3-cd) pyrene	0.5	2.4
Naphthalene	12	74

SB-07 (3' - 4') | CR | 4/10

VOCs:

2-Methylnaphthalene	0.41	2.2
Benzo (a) anthracene	1	70
Benzo (a) pyrene	1	66
Benzo (b) fluoranthene	1	91
Benzo (k) fluoranthene	0.8	27
Chrysene	1	65
Dibenz (a, h) anthracene	0.33	11
Di-n-butylphthalate	0.014	0.073
Fluoranthene	100	160
Indeno (1, 2, 3-cd) pyrene	0.5	44
Pyrene	100	140

SB-07 (4.5' - 5.5') | CR | 4/10

VOCs:

Benzo (a) anthracene	1	15
Benzo (a) pyrene	1	12
Benzo (b) fluoranthene	1	12
Benzo (k) fluoranthene	0.8	3.7
Chrysene	1	12
Dibenz (a, h) anthracene	0.33	2.8
Dibenzofuran	7	9.2
Indeno (1, 2, 3-cd) pyrene	0.5	6.2

SB-07 (13.3' - 14.2') | CR | 4/10

VOCs:

Benzene	0.06	0.84
Ethylbenzene	1	2.1
Xylene (total)	0.26	6.5

SVOCs:

2-Methylnaphthalene	0.41	31
Benzo (a) anthracene	1	9.4
Benzo (a) pyrene	1	5.7
Benzo (b) fluoranthene	1	5.7
Benzo (k) fluoranthene	0.8	2
Chrysene	1	7.8
Dibenz (a, h) anthracene	0.33	1.2
Indeno (1, 2, 3-cd) pyrene	0.5	2.9
Naphthalene	12	71

SB-07 (16' - 17') | CR | 4/10

VOCs:

Benzene	0.06	0.84
Xylene (total)	0.26	0.54

MW-05 (3' - 3.5') | CR | 4/10

VOCs:

Benzo (a) anthracene	1	17
Benzo (a) pyrene	1	2.5
Benzo (b) fluoranthene	1	17
Benzo (k) fluoranthene	0.8	2.7
Chrysene	1	2.1
Dibenz (a, h) anthracene	0.33	2.4
Di-n-butylphthalate	0.014	0.039
Indeno (1, 2, 3-cd) pyrene	0.5	8.8

MW-05 (4.5' - 5') | CR | 4/10

VOCs:

2-Methylnaphthalene	0.41	14
Benzo (a) anthracene	1	5.1
Benzo (a) pyrene	1	3.9
Benzo (b) fluoranthene	1	3.3
Benzo (k) fluoranthene	0.8	3
Chrysene	1	5
Dibenz (a, h) anthracene	0.33	0.5
Indeno (1, 2, 3-cd) pyrene	0.5	1.9
Naphthalene	12	32

MW-05 (15' - 16') | CR | 4/10

VOCs:

Benzene	0.06	3.1
Ethylbenzene	1	29
Toluene	0.7	13
Xylene (total)	0.26	49

SVOCs:

2-Methylnaphthalene	0.41	17
Benzo (a) anthracene	1	2.6
Benzo (a) pyrene	1	1.9
Benzo (b) fluoranthene	1	1.4
Chrysene	1	2.6
Naphthalene	12	30

MW-05 (20.5' - 21') | CR | 4/10

VOCs:

1,2-Dichloroethene (cis)	0.25	1.3
Benzene	0.06	21
Ethylbenzene	1	93
Toluene	0.7	28
Xylene (total)	0.26	170

SVOCs:

2,6-Dinitrotoluene	0.17	1.2
2-Methylnaphthalene	0.41	180
Acenaphthene	20	22
Benzo (a) anthracene	1	21
Benzo (a) pyrene	1	18
Benzo (b) fluoranthene	1	11
Benzo (k) fluoranthene	0.8	6.1
Chrysene	1	25
Dibenz (a, h) anthracene	0.33	1.2
Fluorene	30	31
Indeno (1, 2, 3-cd) pyrene	0.5	3.2
Naphthalene	12	540

SB-15 (3' - 3.5') | CR | 5/10

VOCs:

2-Methylnaphthalene	0.41	170
Acenaphthene	20	110
Benzo (a) anthracene	1	63
Benzo (a) pyrene	1	46
Benzo (b) fluoranthene	1	50
Benzo (k) fluoranthene	0.8	21
Chrysene	1	50
Dibenz (a, h) anthracene	0.33	5.4
Dibenzofuran	7	96
Fluoranthene	100	180
Fluorene	30	73
Indeno (1, 2, 3-cd) pyrene	0.5	22
Naphthalene	12	770
Phenanthrene	100	280
Pyrene	100	180

SB-15 (6' - 6.5') | CR | 5/10

VOCs:

Benzene	0.06	0.13
Xylene (total)	0.26	2.9

SVOCs:

2-Methylnaphthalene	0.41	31
Benzo (a) anthracene	1	4.5
Benzo (a) pyrene	1	1.9
Benzo (b) fluoranthene	1	3.5
Benzo (k) fluoranthene	0.8	2.1
Chrysene	1	4.4
Dibenz (a, h) anthracene	0.33	0.45
Indeno (1, 2, 3-cd) pyrene	0.5	1
Naphthalene	12	100

SB-15 (22' - 23') | CR | 5/10

VOCs:

Benzene	0.06	1.6
Ethylbenzene	1	22
Toluene	0.7	0.79
Xylene (total)	0.26	35

SVOCs:

2-Methylnaphthalene	0.41	0.63
Benzo (a) anthracene	1	1.4
Benzo (a) pyrene	1	1.6
Benzo (b) fluoranthene	1	1.9
Benzo (k) fluoranthene	0.8	1.7
Chrysene	1	1.8
Dibenz (a, h) anthracene	0.33	0.45
Di-n-butylphthalate	0.014	0.037
Indeno (1, 2, 3-cd) pyrene	0.5	1.2

SB-10 (3' - 4') | CR | 4/10

VOCs:

Benzo (a) anthracene	1	2
Benzo (a) pyrene	1	1.9
Benzo (b) fluoranthene	1	2.4
Benzo (k) fluoranthene	0.8	1.8
Chrysene	1	1.6
Di-n-butylphthalate	0.014	0.033

SB-16 (3.5' - 4') | CR | 5/10

VOCs:

Benzo (a) anthracene	1	1.5
Benzo (a) pyrene	1	2
Benzo (b) fluoranthene	1	1.9
Benzo (k) fluoranthene	0.8	2.2
Chrysene	1	1.8
Dibenz (a, h) anthracene	0.33	0.54
Di-n-butylphthalate	0.014	0.037
Indeno (1, 2, 3-cd) pyrene	0.5	1.4

SB-16 (6' - 6.5') | CR | 5/10

VOCs:

Benzene	0.06	0.45
Ethylbenzene	1	22
Xylene (total)	0.26	0.59

SVOCs:

2-Methylnaphthalene	0.41	0.6
Benzo (a) anthracene	1	6.1
Benzo (a) pyrene	1	3
Benzo (b) fluoranthene	1	3.5
Benzo (k) fluoranthene	0.8	2.8
Chrysene	1	6.7
Dibenz (a, h) anthracene	0.33	0.55
Indeno (1, 2, 3-cd) pyrene	0.5	1.3

SB-16 (17.5' - 18') | CR | 5/10

VOCs:

Benzene	0.06	3.1
Ethylbenzene	1	19
Xylene (total)	0.26	18

SVOCs:

2-Methylnaphthalene	0.41	9
Benzo (a) anthracene	1	2.8
Benzo (a) pyrene	1	2.9
Benzo (b) fluoranthene	1	1.7
Benzo (k) fluoranthene	0.8	1.1
Chrysene	1	2.6
Indeno (1, 2, 3-cd) pyrene	0.5	0.6
Naphthalene	12	22

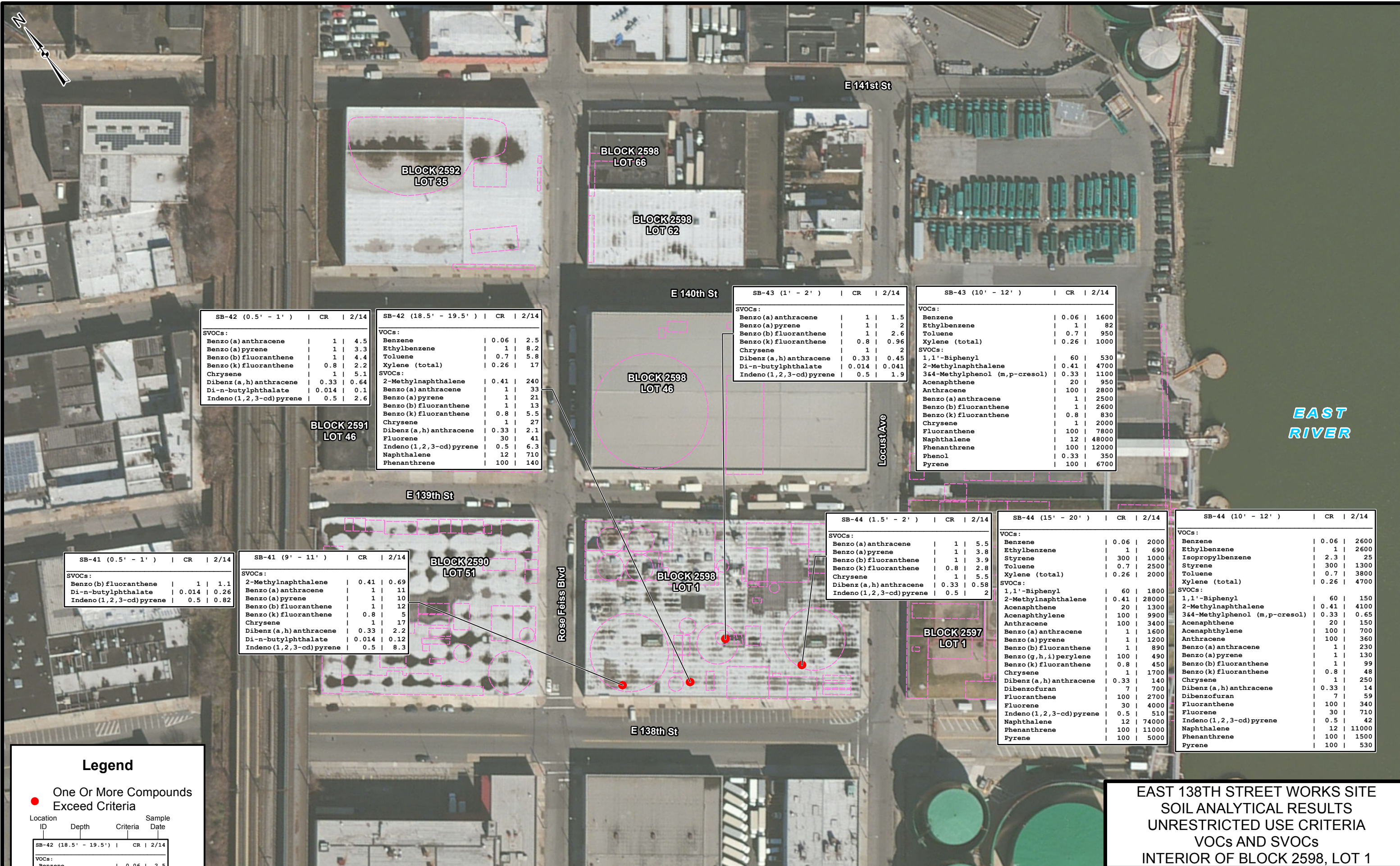
MW-06 (10.5' - 11') | CR | 5/10

VOCs:

Acetone	0.05	0.089
Ethylbenzene	1	21
Toluene	0.7	0.94
Xylene (total)	0.26	52

SVOCs:

2-Methylnaphthalene	0.41	160
Benzo (a) anthracene	1	13
Benzo (a) pyrene	1	9.4
Benzo (b) fluoranthene	1	10
Benzo (k) fluoranthene	0.8	4
Chrysene	1	13
Dibenz (a, h) anthracene	0.33	1.2
Indeno (1, 2, 3-cd) pyrene	0.5	3
Naphthalene	12	370



SB-42 (0.5' - 1') CR 2/14		
SVOCs:		
Benzo (a) anthracene	1	4.5
Benzo (a) pyrene	1	3.3
Benzo (b) fluoranthene	1	4.4
Benzo (k) fluoranthene	0.8	2.2
Chrysene	1	5.1
Dibenz (a, h) anthracene	0.33	0.64
Di-n-butylphthalate	0.014	0.1
Indeno (1,2,3-cd) pyrene	0.5	2.6

SB-42 (18.5' - 19.5') CR 2/14		
VOCs:		
Benzene	0.06	2.5
Ethylbenzene	1	8.2
Toluene	0.7	5.8
Xylene (total)	0.26	17
SVOCs:		
2-Methylnaphthalene	0.41	240
Benzo (a) anthracene	1	33
Benzo (a) pyrene	1	21
Benzo (b) fluoranthene	1	13
Benzo (k) fluoranthene	0.8	5.5
Chrysene	1	27
Dibenz (a, h) anthracene	0.33	2.1
Fluorene	30	41
Indeno (1,2,3-cd) pyrene	0.5	6.3
Naphthalene	12	710
Phenanthrene	100	140

SB-43 (1' - 2') CR 2/14		
SVOCs:		
Benzo (a) anthracene	1	1.5
Benzo (a) pyrene	1	2
Benzo (b) fluoranthene	1	2.6
Benzo (k) fluoranthene	0.8	0.96
Chrysene	1	2
Dibenz (a, h) anthracene	0.33	0.45
Di-n-butylphthalate	0.014	0.041
Indeno (1,2,3-cd) pyrene	0.5	1.9

SB-43 (10' - 12') CR 2/14		
VOCs:		
Benzene	0.06	1600
Ethylbenzene	1	82
Toluene	0.7	950
Xylene (total)	0.26	1000
SVOCs:		
1,1'-Biphenyl	60	530
2-Methylnaphthalene	0.41	4700
3,4-Methylphenol (m,p-cresol)	0.33	1100
Acenaphthene	20	950
Anthracene	100	2800
Benzo (a) anthracene	1	2500
Benzo (b) fluoranthene	1	2600
Benzo (k) fluoranthene	0.8	830
Chrysene	1	2000
Fluoranthene	100	7800
Naphthalene	12	48000
Phenanthrene	100	12000
Phenol	0.33	350
Pyrene	100	6700

SB-41 (0.5' - 1') CR 2/14		
SVOCs:		
Benzo (b) fluoranthene	1	1.1
Di-n-butylphthalate	0.014	0.26
Indeno (1,2,3-cd) pyrene	0.5	0.82

SB-41 (9' - 11') CR 2/14		
SVOCs:		
2-Methylnaphthalene	0.41	0.69
Benzo (a) anthracene	1	11
Benzo (a) pyrene	1	10
Benzo (b) fluoranthene	1	12
Benzo (k) fluoranthene	0.8	5
Chrysene	1	17
Dibenz (a, h) anthracene	0.33	2.2
Di-n-butylphthalate	0.014	0.12
Indeno (1,2,3-cd) pyrene	0.5	8.3

SB-44 (1.5' - 2') CR 2/14		
SVOCs:		
Benzo (a) anthracene	1	5.5
Benzo (a) pyrene	1	3.8
Benzo (b) fluoranthene	1	3.9
Benzo (k) fluoranthene	0.8	2.8
Chrysene	1	5.5
Dibenz (a, h) anthracene	0.33	0.58
Indeno (1,2,3-cd) pyrene	0.5	2

SB-44 (15' - 20') CR 2/14		
VOCs:		
Benzene	0.06	2000
Ethylbenzene	1	690
Styrene	300	1000
Toluene	0.7	2500
Xylene (total)	0.26	2000
SVOCs:		
1,1'-Biphenyl	60	1800
2-Methylnaphthalene	0.41	28000
Acenaphthene	20	1300
Acenaphthylene	100	9900
Anthracene	100	3400
Benzo (a) anthracene	1	1600
Benzo (a) pyrene	1	1200
Benzo (b) fluoranthene	1	890
Benzo (g, h, i) perylene	100	490
Benzo (k) fluoranthene	0.8	450
Chrysene	1	1700
Dibenz (a, h) anthracene	0.33	140
Dibenzofuran	7	700
Fluoranthene	100	2700
Fluorene	30	4000
Indeno (1,2,3-cd) pyrene	0.5	510
Naphthalene	12	74000
Phenanthrene	100	11000
Pyrene	100	5000

SB-44 (10' - 12') CR 2/14		
VOCs:		
Benzene	0.06	2600
Ethylbenzene	1	2600
Isopropylbenzene	2.3	25
Styrene	300	1300
Toluene	0.7	3800
Xylene (total)	0.26	4700
SVOCs:		
1,1'-Biphenyl	60	150
2-Methylnaphthalene	0.41	4100
3,4-Methylphenol (m,p-cresol)	0.33	0.65
Acenaphthene	20	150
Acenaphthylene	100	700
Anthracene	100	360
Benzo (a) anthracene	1	230
Benzo (a) pyrene	1	130
Benzo (b) fluoranthene	1	99
Benzo (k) fluoranthene	0.8	48
Chrysene	1	250
Dibenz (a, h) anthracene	0.33	14
Dibenzofuran	7	59
Fluoranthene	100	340
Fluorene	30	710
Indeno (1,2,3-cd) pyrene	0.5	42
Naphthalene	12	11000
Phenanthrene	100	1500
Pyrene	100	530

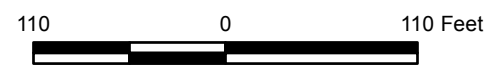
Legend

● One Or More Compounds Exceed Criteria

Location ID	Depth	Criteria	Sample Date
SB-42 (18.5' - 19.5')		CR 2/14	
VOCs:			
Benzene		0.06 2.5	

Compound	Concentration (mg/kg)
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NOTE: 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use.

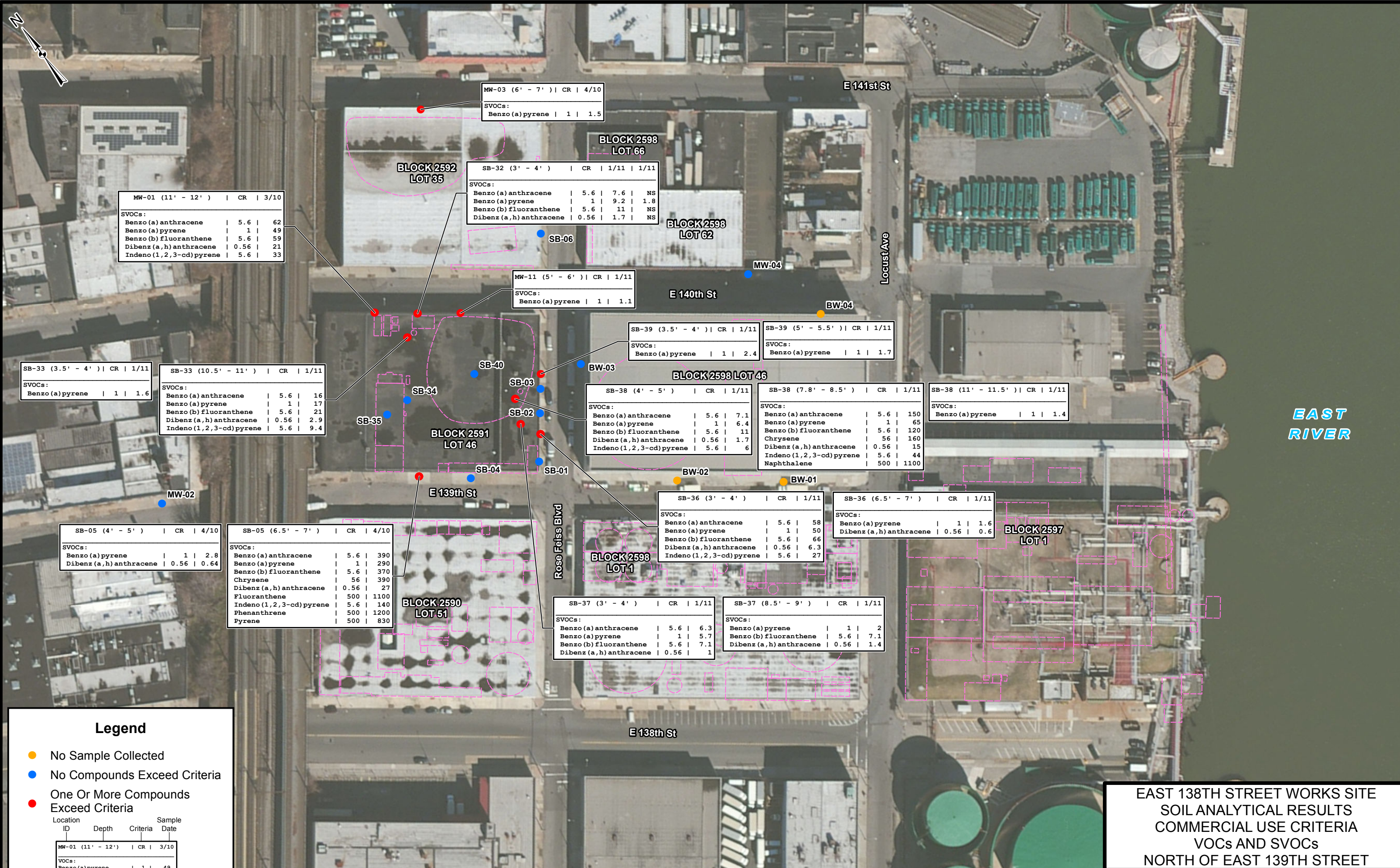


EAST 138TH STREET WORKS SITE
SOIL ANALYTICAL RESULTS
UNRESTRICTED USE CRITERIA
VOCs AND SVOCs
INTERIOR OF BLOCK 2598, LOT 1



FIGURE 4-4

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EAST RIVER

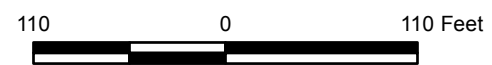
Legend

- No Sample Collected
- No Compounds Exceed Criteria
- One Or More Compounds Exceed Criteria

Location ID	Depth	Criteria	Sample Date
MW-01 (11' - 12')	CR	3/10	

Compound	Concentration (mg/kg)
Benzo (a) pyrene	1 49

NOTE: 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.

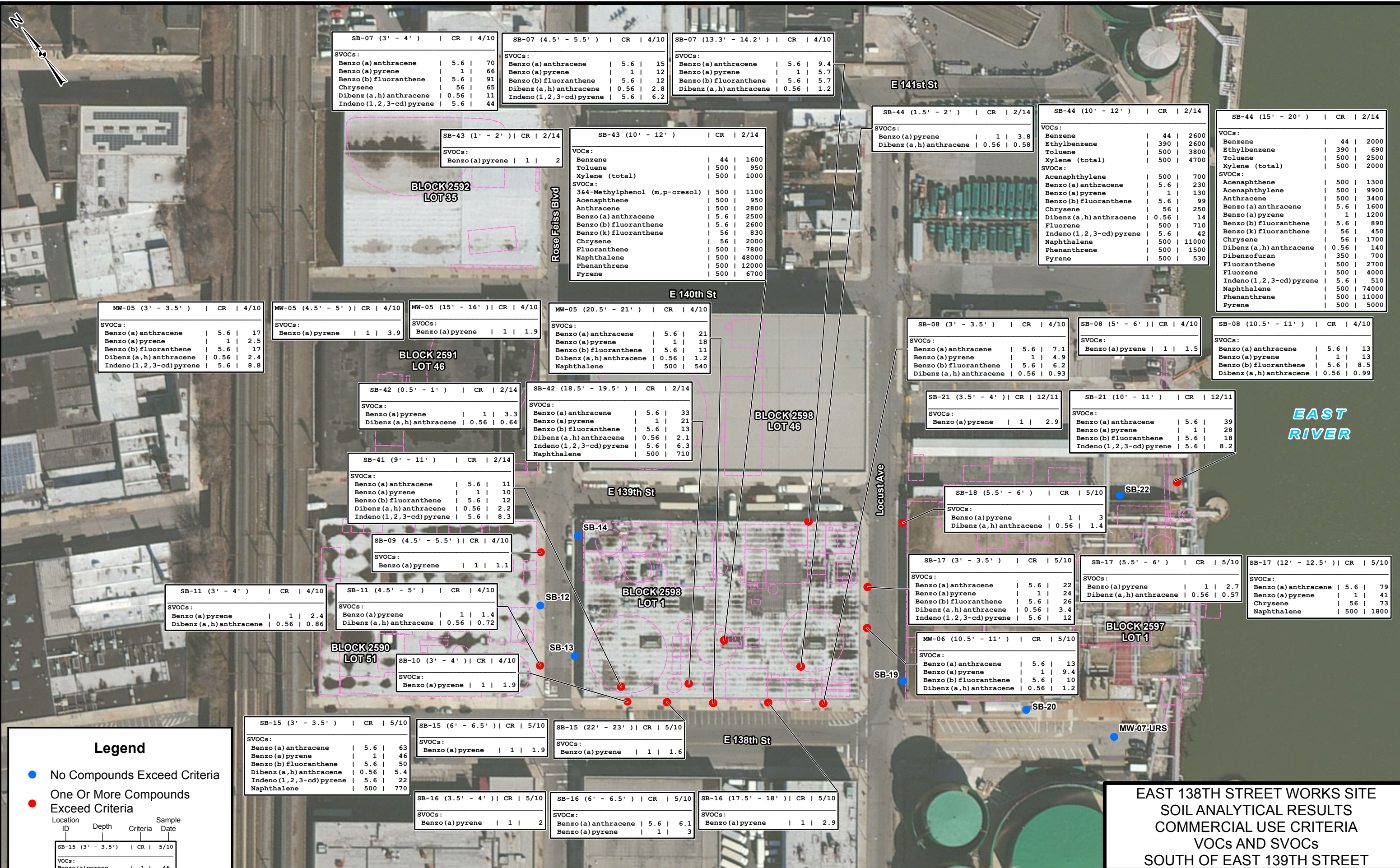


EAST 138TH STREET WORKS SITE
SOIL ANALYTICAL RESULTS
COMMERCIAL USE CRITERIA
VOCs AND SVOCs
NORTH OF EAST 139TH STREET



FIGURE 4-5

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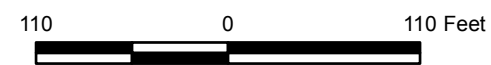
EAST RIVER

Legend

- No Compounds Exceed Criteria
- One Or More Compounds Exceed Criteria

Location ID	Depth	Criteria	Sample Date
SB-15 (3' - 3.5')	CR	5/10	5/10
VOCs:			
Benzo (a) pyrene	1	46	
Compound			
		Concentration	(mg/kg)

NOTE: 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Commercial.



**EAST 138TH STREET WORKS SITE
SOIL ANALYTICAL RESULTS
COMMERCIAL USE CRITERIA
VOCs AND SVOCs
SOUTH OF EAST 139TH STREET**



FIGURE 4-6

J:\Projects\1175538_00000\DB\GIS\Map\138th RI Report\BTEXPAHTOTALS(DEPTHS).mxd 1/4/2016



MW-03	3.5'-4.5'	6'-7'	14'-15'
BTEX	ND	0.66	ND
PAH	2.244	52.42	ND

SB-38	4'-5'	7.8'-8.5'	11'-11.5'	15.5'-16.5'
BTEX	0.0034	0.1264	ND	0.0088
PAH	83.57	3343	80.9	ND

SB-06	3'-4'	4.5'-5.5'
BTEX	ND	0.0013
PAH	4.811	0.726

SB-37	3'-4'	8.5'-9'	13.5'-14.5'
BTEX	ND	13.308	ND
PAH	91.88	69.2	ND

SB-39	3.5'-4'	5'-5.5'	6.7'-7.7'	14'-15'
BTEX	ND	0.051	0.31	ND
PAH	29.03	86.04	132.23	ND

SB-03	4.5'-5.5'	28'-29'
BTEX	0.03	ND
PAH	68.72	0.268

MW-04	3.5'-4.5'	8.5'-9.5'
BTEX	0.0064	ND
PAH	20.132	ND

MW-01	3.4'-4'	4.5'-5'	11'-12'	16.5'-18'
BTEX	0.0028	ND	2.45	ND
PAH	0.707	1.477	1254	4.271

BW-03	38.5'-39.5'
BTEX	0.0419
PAH	0.084

BW-04	
-------	--

SB-02	4.7'-5.3'	11.5'-13'	27'-28'
BTEX	0.0169	0.0024	ND
PAH	31.69	0.135	ND

SB-07	3'-4'	4.5'-5.5'	13.3'-14.2'	16'-17'
BTEX	0.0027	0.124	10.12	2.15
PAH	862.2	264.11	268.5	5.562

SB-22	4'-4.5'
BTEX	ND
PAH	3.22

SB-33	3.5'-4'	10.5'-11'	13.5'-14'
BTEX	0.003	0.0307	ND
PAH	17.454	285.6	1.293

SB-34	10'-11'	20'-20.9'
BTEX	ND	ND
PAH	1.39	1.504

SB-35	9.5'-10'	17.2'-17.8'
BTEX	0.0022	ND
PAH	0.626	1.555

SB-36	3'-4'	6.5'-7'	13.5'-14.2'
BTEX	ND	0.0036	ND
PAH	827.8	20.642	0.155

SB-01	4.5'-5'	5'-5.5'	8.5'-10'	33'-34'
BTEX	0.0058	ND	0.0047	ND
PAH	7.258	9.946	0.19	ND

SB-05	4'-5'	6.5'-7'	11.5'-12'
BTEX	ND	0.093	ND
PAH	24.684	5978	5.806

SB-18	4'-4.5'	5.5'-6'	8.5'-9'
BTEX	ND	ND	ND
PAH	1.286	38.88	0.361

SB-21	3.5'-4'	10'-11'	21'-22'
BTEX	ND	ND	ND
PAH	27.765	800.2	4.327

MW-02	3.5'-4.5'	5.5'-6'	12'-12.5'
BTEX	ND	0.0078	ND
PAH	3.629	2.365	ND

SB-04	2.5'-3.5'	4.2'-5'	11'-12'
BTEX	ND	ND	ND
PAH	2.615	3.194	0.043

SB-14	3.5'-4'	4.5'-5'	14.5'-15'
BTEX	ND	ND	ND
PAH	0.489	0.472	2.576

SB-43	1'-2'	10'-12'
BTEX	0.0014	3632
PAH	23.1	90880

SB-17	3'-3.5'	5.5'-6'	12'-12.5'
BTEX	ND	4.515	94.7
PAH	266.31	80.87	3790

SB-09	4.5'-5.5'	7'-8'
BTEX	ND	ND
PAH	14.94	ND

MW-06	4'-4.5'	10.5'-11'
BTEX	ND	73.981
PAH	4.714	799.4

SB-12	3.5'-4'	4.5'-5.5'	7'-8'	12'-13'
BTEX	ND	ND	ND	ND
PAH	2.642	0.432	ND	0.485

SB-13	3'-4'	15'-16'
BTEX	ND	0.0367
PAH	0.156	3.847

SB-16	3.5'-4'	6'-6.5'	9'-10'	17.5'-18'
BTEX	0.0012	23.58	ND	40.51
PAH	25.49	71.65	0.027	86.86

SB-44	1.5'-2'	10'-12'	15'-20'
BTEX	0.0233	13700	7190
PAH	73.48	20238	146280

SB-11	3'-4'	4.5'-5'	13'-13.5'
BTEX	ND	ND	ND
PAH	38.772	36.48	0.361

SB-19	3'-4'	5'-5.5'
BTEX	ND	0.013
PAH	2.586	13.95

SB-20	3'-3.5'	4.5'-5'
BTEX	ND	ND
PAH	1.521	3.63

SB-41	0.5'-1'	7'-9'	9'-11'
BTEX	0.0092	0.0024	NA
PAH	0.805	NA	140.09

SB-10	3'-4'	5'-5.5'	11'-11.5'
BTEX	0.0021	ND	0.024
PAH	18.904	0.185	0.296

SB-08	3'-3.5'	5'-6'	7'-7.5'	10.5'-11'
BTEX	ND	ND	0.017	5.873
PAH	88.74	32.92	7.078	325.09

MW-07-URS	4'-4.5'	9.8'-10.5'
BTEX	ND	ND
PAH	3.852	0.553

SB-15	3'-3.5'	6'-6.5'	22'-23'
BTEX	ND	3.71	59.39
PAH	2159.4	214.05	25.57

MW-05	3'-3.5'	4.5'-5'	15'-16'	20.5'-21'
BTEX	ND	0.611	94.1	312
PAH	143.68	113.1	100.14	1118

SB-42	0.5'-1'	18.5'-19.5'
BTEX	ND	33.5
PAH	70.79	1464.6

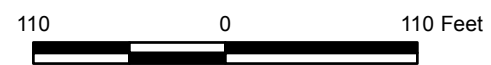
Legend

- No Sample Collected
- Soil Sample Location

Location ID	Depth
SB-13	15'-16'
BTEX	0.0367
PAH	3.847

Compound Concentration (mg/kg)

NOTE:
 ND - Not Detected
 NS - Not Analyzed

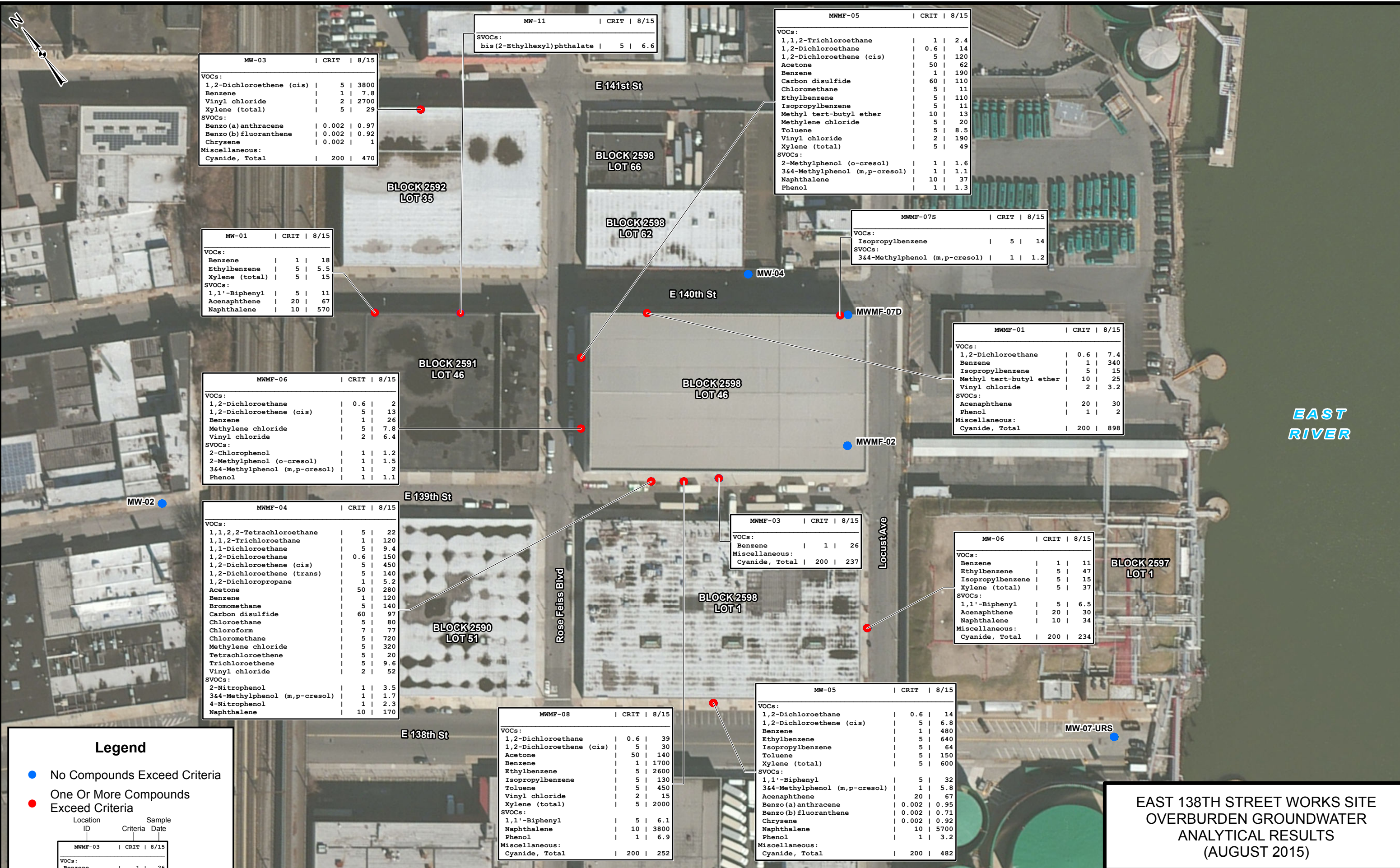


**EAST 138TH STREET WORKS SITE
 SOIL ANALYTICAL RESULTS
 TOTAL BTEX AND TOTAL PAHs**



FIGURE 4-7

J:\Projects\1175538_00000\00\GIS\Map\138th RI Report\IGW ANALYTICAL (AUG 2015).mxd 1/4/2016



EAST RIVER

Legend

- No Compounds Exceed Criteria
- One Or More Compounds Exceed Criteria

Location ID	Criteria	Sample Date
MWMF-03	CRIT 8/15	
VOCs:		
Benzene	1 26	
Compound		
Concentration (µg/L)		

MW-03	CRIT	8/15
VOCs:		
1,2-Dichloroethene (cis)	5	3800
Benzene	1	7.8
Vinyl chloride	2	2700
Xylene (total)	5	29
SVOCs:		
Benzo (a) anthracene	0.002	0.97
Benzo (b) fluoranthene	0.002	0.92
Chrysene	0.002	1
Miscellaneous:		
Cyanide, Total	200	470

MW-11	CRIT	8/15
SVOCs:		
bis (2-Ethylhexyl) phthalate	5	6.6

MWMF-05	CRIT	8/15
VOCs:		
1,1,2-Trichloroethane	1	2.4
1,2-Dichloroethane	0.6	14
1,2-Dichloroethene (cis)	5	120
Acetone	50	62
Benzene	1	190
Carbon disulfide	60	110
Chloromethane	5	11
Ethylbenzene	5	110
Isopropylbenzene	5	11
Methyl tert-butyl ether	10	13
Methylene chloride	5	20
Toluene	5	8.5
Vinyl chloride	2	190
Xylene (total)	5	49
SVOCs:		
2-Methylphenol (o-cresol)	1	1.6
3,4-Methylphenol (m,p-cresol)	1	1.1
Naphthalene	10	37
Phenol	1	1.3

MW-01	CRIT	8/15
VOCs:		
Benzene	1	18
Ethylbenzene	5	5.5
Xylene (total)	5	15
SVOCs:		
1,1'-Biphenyl	5	11
Acenaphthene	20	67
Naphthalene	10	570

MWMF-07S	CRIT	8/15
VOCs:		
Isopropylbenzene	5	14
SVOCs:		
3,4-Methylphenol (m,p-cresol)	1	1.2

MWMF-06	CRIT	8/15
VOCs:		
1,2-Dichloroethane	0.6	2
1,2-Dichloroethene (cis)	5	13
Benzene	1	26
Methylene chloride	5	7.8
Vinyl chloride	2	6.4
SVOCs:		
2-Chlorophenol	1	1.2
2-Methylphenol (o-cresol)	1	1.5
3,4-Methylphenol (m,p-cresol)	1	2
Phenol	1	1.1

MWMF-01	CRIT	8/15
VOCs:		
1,2-Dichloroethane	0.6	7.4
Benzene	1	340
Isopropylbenzene	5	15
Methyl tert-butyl ether	10	25
Vinyl chloride	2	3.2
SVOCs:		
Acenaphthene	20	30
Phenol	1	2
Miscellaneous:		
Cyanide, Total	200	898

MWMF-04	CRIT	8/15
VOCs:		
1,1,2,2-Tetrachloroethane	5	22
1,1,2-Trichloroethane	1	120
1,1-Dichloroethane	5	9.4
1,2-Dichloroethane	0.6	150
1,2-Dichloroethene (cis)	5	450
1,2-Dichloroethene (trans)	5	140
1,2-Dichloropropane	1	5.2
Acetone	50	280
Benzene	1	120
Bromomethane	5	140
Carbon disulfide	60	97
Chloroethane	5	80
Chloroform	7	77
Chloromethane	5	720
Methylene chloride	5	320
Tetrachloroethene	5	20
Trichloroethene	5	9.6
Vinyl chloride	2	52
SVOCs:		
2-Nitrophenol	1	3.5
3,4-Methylphenol (m,p-cresol)	1	1.7
4-Nitrophenol	1	2.3
Naphthalene	10	170

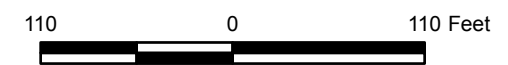
MWMF-03	CRIT	8/15
VOCs:		
Benzene	1	26
Miscellaneous:		
Cyanide, Total	200	237

MW-06	CRIT	8/15
VOCs:		
Benzene	1	11
Ethylbenzene	5	47
Isopropylbenzene	5	15
Xylene (total)	5	37
SVOCs:		
1,1'-Biphenyl	5	6.5
Acenaphthene	20	30
Naphthalene	10	34
Miscellaneous:		
Cyanide, Total	200	234

MWMF-08	CRIT	8/15
VOCs:		
1,2-Dichloroethane	0.6	39
1,2-Dichloroethene (cis)	5	30
Acetone	50	140
Benzene	1	1700
Ethylbenzene	5	2600
Isopropylbenzene	5	130
Toluene	5	450
Vinyl chloride	2	15
Xylene (total)	5	2000
SVOCs:		
1,1'-Biphenyl	5	6.1
Naphthalene	10	3800
Phenol	1	6.9
Miscellaneous:		
Cyanide, Total	200	252

MW-05	CRIT	8/15
VOCs:		
1,2-Dichloroethane	0.6	14
1,2-Dichloroethene (cis)	5	6.8
Benzene	1	480
Ethylbenzene	5	640
Isopropylbenzene	5	64
Toluene	5	150
Xylene (total)	5	600
SVOCs:		
1,1'-Biphenyl	5	32
3,4-Methylphenol (m,p-cresol)	1	5.8
Acenaphthene	20	67
Benzo (a) anthracene	0.002	0.95
Benzo (b) fluoranthene	0.002	0.71
Chrysene	0.002	0.92
Naphthalene	10	5700
Phenol	1	3.2
Miscellaneous:		
Cyanide, Total	200	482

NOTE: NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.

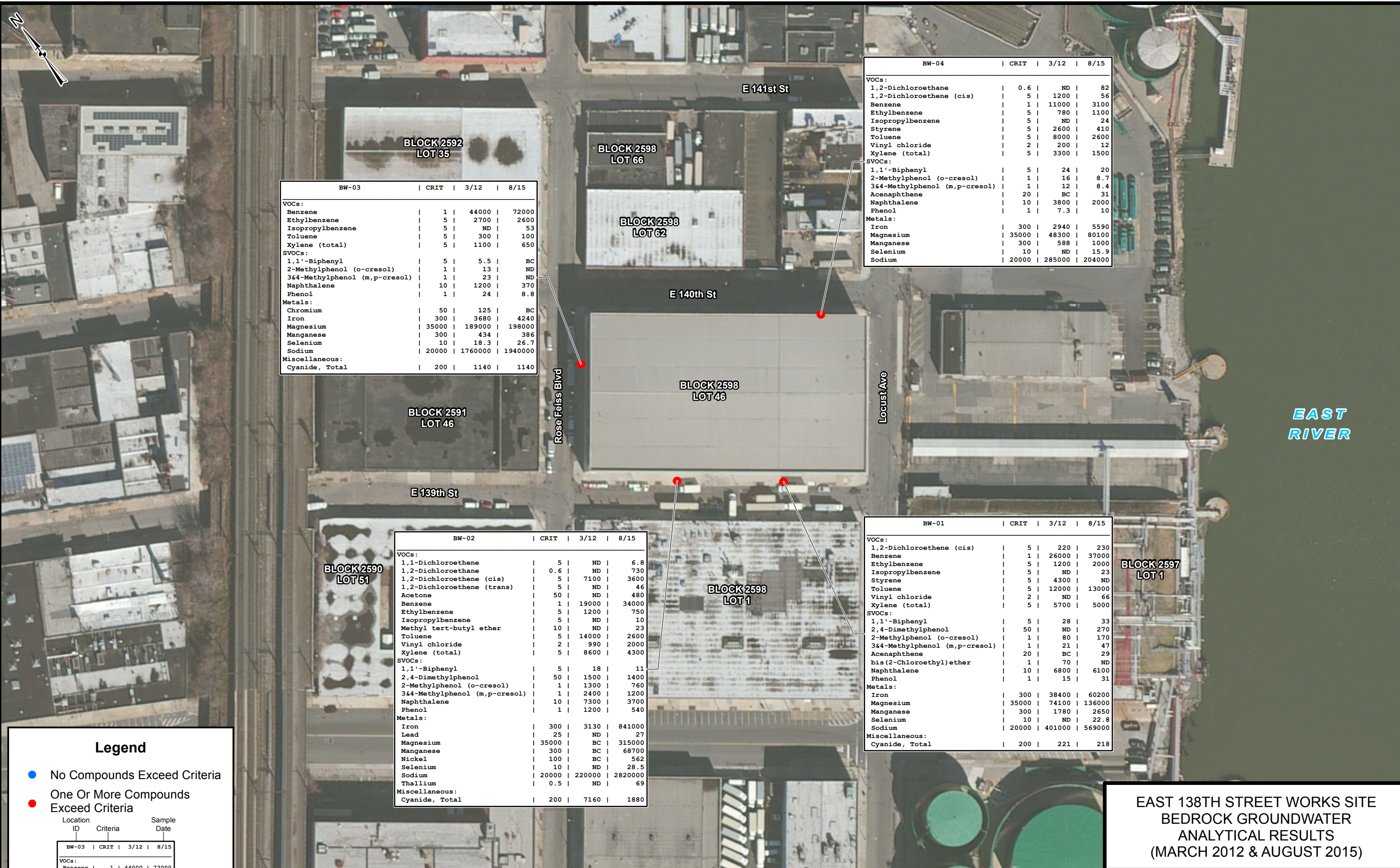


EAST 138TH STREET WORKS SITE
OVERBURDEN GROUNDWATER
ANALYTICAL RESULTS
(AUGUST 2015)



FIGURE 4-8

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BW-03	CRIT	3/12	8/15
VOCs:			
Benzene	1	44000	72000
Ethylbenzene	5	2700	2600
Isopropylbenzene	5	ND	53
Toluene	5	300	100
Xylene (total)	5	1100	650
SVOCs:			
1,1'-Biphenyl	5	5.5	BC
2-Methylphenol (o-cresol)	1	13	ND
3,4-Methylphenol (m,p-cresol)	1	23	ND
Naphthalene	10	1200	370
Phenol	1	24	8.8
Metals:			
Chromium	50	125	BC
Iron	300	3680	4240
Magnesium	35000	189000	198000
Manganese	300	434	386
Selenium	10	18.3	26.7
Sodium	20000	1760000	1940000
Miscellaneous:			
Cyanide, Total	200	1140	1140

BW-04	CRIT	3/12	8/15
VOCs:			
1,2-Dichloroethane	0.6	ND	82
1,2-Dichloroethane (cis)	5	1200	56
Benzene	1	11000	3100
Ethylbenzene	5	780	1100
Isopropylbenzene	5	ND	24
Styrene	5	2600	410
Toluene	5	8000	2600
Vinyl chloride	2	200	12
Xylene (total)	5	3300	1500
SVOCs:			
1,1'-Biphenyl	5	24	20
2-Methylphenol (o-cresol)	1	16	8.7
3,4-Methylphenol (m,p-cresol)	1	12	8.4
Acenaphthene	20	BC	31
Naphthalene	10	3800	2000
Phenol	1	7.3	10
Metals:			
Iron	300	2940	5590
Magnesium	35000	48300	80100
Manganese	300	588	1000
Selenium	10	ND	15.9
Sodium	20000	285000	204000

BW-02	CRIT	3/12	8/15
VOCs:			
1,1-Dichloroethane	5	ND	6.8
1,2-Dichloroethane	0.6	ND	730
1,2-Dichloroethane (cis)	5	7100	3600
1,2-Dichloroethane (trans)	5	ND	46
Acetone	50	ND	480
Benzene	1	19000	34000
Ethylbenzene	5	1200	750
Isopropylbenzene	5	ND	10
Methyl tert-butyl ether	10	ND	23
Toluene	5	14000	2600
Vinyl chloride	2	990	2000
Xylene (total)	5	8600	4300
SVOCs:			
1,1'-Biphenyl	5	18	11
2,4-Dimethylphenol	50	1500	1400
2-Methylphenol (o-cresol)	1	1300	760
3,4-Methylphenol (m,p-cresol)	1	2400	1200
Naphthalene	10	7300	3700
Phenol	1	1200	540
Metals:			
Iron	300	3130	841000
Lead	25	ND	27
Magnesium	35000	BC	315000
Manganese	300	BC	68700
Nickel	100	BC	562
Selenium	10	ND	28.5
Sodium	20000	220000	2820000
Thallium	0.5	ND	69
Miscellaneous:			
Cyanide, Total	200	7160	1880

BW-01	CRIT	3/12	8/15
VOCs:			
1,2-Dichloroethane (cis)	5	220	230
Benzene	1	26000	37000
Ethylbenzene	5	1200	2000
Isopropylbenzene	5	ND	23
Styrene	5	4300	ND
Toluene	5	12000	13000
Vinyl chloride	2	ND	66
Xylene (total)	5	5700	5000
SVOCs:			
1,1'-Biphenyl	5	28	33
2,4-Dimethylphenol	50	ND	270
2-Methylphenol (o-cresol)	1	80	170
3,4-Methylphenol (m,p-cresol)	1	21	47
Acenaphthene	20	BC	29
bis(2-Chloroethyl) ether	1	70	ND
Naphthalene	10	6800	6100
Phenol	1	15	31
Metals:			
Iron	300	38400	60200
Magnesium	35000	74100	136000
Manganese	300	1780	2650
Selenium	10	ND	22.8
Sodium	20000	401000	569000
Miscellaneous:			
Cyanide, Total	200	221	218

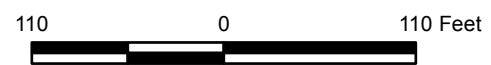
Legend

- No Compounds Exceed Criteria
- One Or More Compounds Exceed Criteria

Location ID	Criteria	Sample Date
BW-03	CRIT	3/12 8/15
VOCs:		
Benzene	1	44000 72000
Compound	Criteria	Concentration (µg/L)

ND - Not Detected
BC - Below Criteria

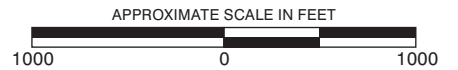
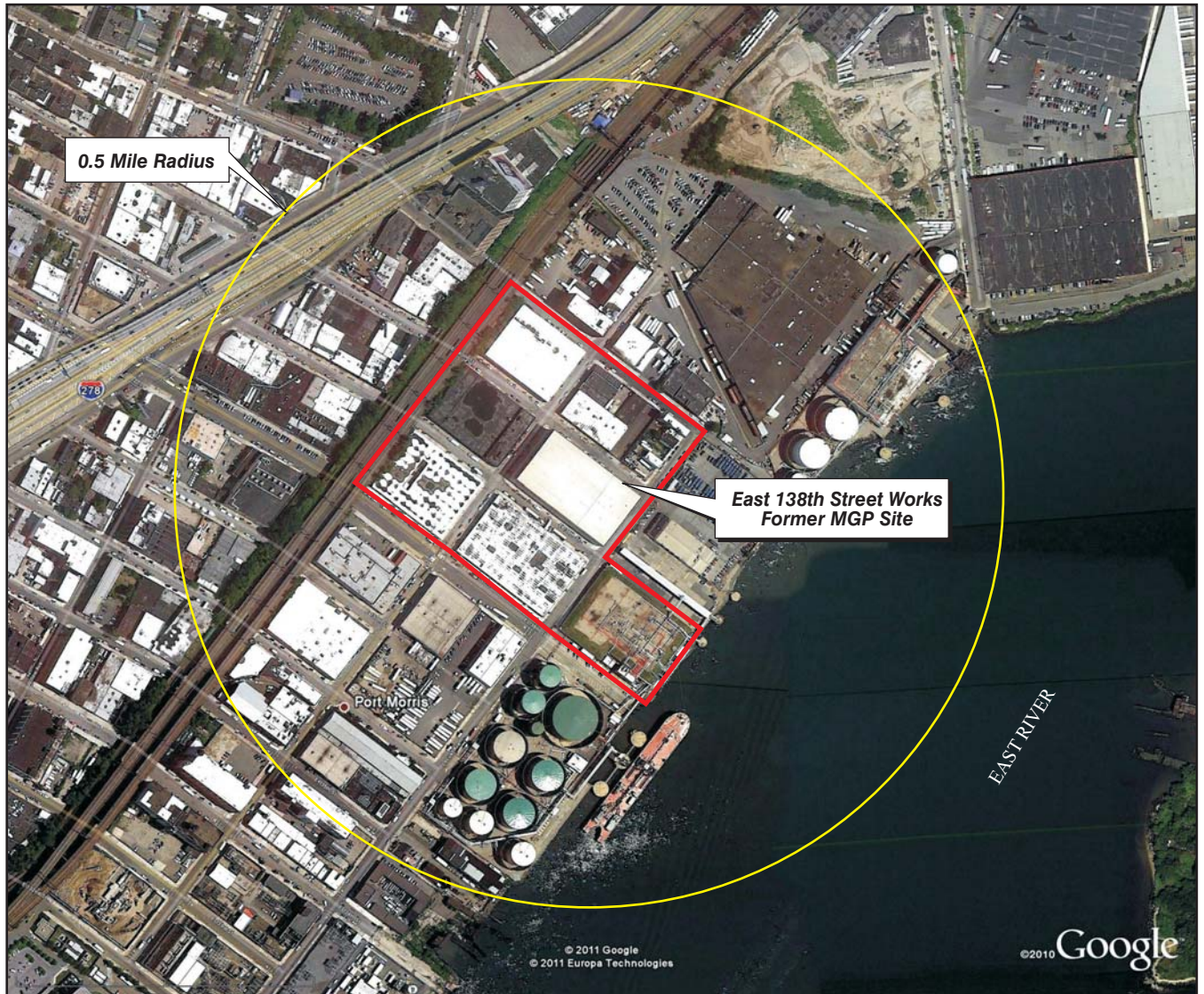
NOTE: NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (including April 2000 and June 2004 addenda). Class GA.



**EAST 138TH STREET WORKS SITE
BEDROCK GROUNDWATER
ANALYTICAL RESULTS
(MARCH 2012 & AUGUST 2015)**



FIGURE 4-9



AG205958-11175538-011116-GCM



COVERTYPE MAP
EAST 138TH STREET WORKS FORMER MGP
BRONX, NEW YORK

FIGURE 6-1



Legend

- Block/Lot Boundary
- Former MGP Structure



**EAST 138TH STREET WORKS SITE
FORMER MGP
SITE LAYOUT**

conEdison **URS** PLATE 1

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EAST RIVER

Legend

- Soil Boring
- ◆ Monitoring Well
- Former MGP Structure

EAST 138TH STREET WORKS SITE
SOIL BORING AND
MONITORING WELL LOCATIONS



conEdison **URS** PLATE 2

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APPENDIX F
SOIL BORING LOGS

BORING NO. : BW-01

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Glacier Drilling, LLC

NORTHING: 231866.5

EASTING: 1010013.6

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 8.89

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
				DIA.		Macrocore	HQ	
				WT.				
				LENGTH		10'		

DATE STARTED: 1/31/12

DATE FINISHED: 2/3/12

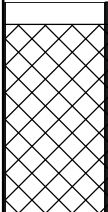
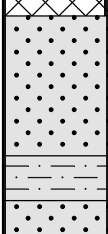
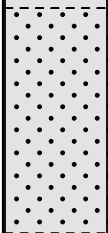
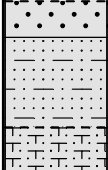

DRILLER: Allan Augustin

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1	N/A	100%	Brown	Medium dense	Concrete	FILL	0.8	Moist
						Soft	FILL. SILT and fine to medium SAND, some fine to medium gravel. No odor.			
-5		2	N/A	100%		Dense	Fine SAND, trace silt and fine gravel. No odor.	SP	0.0	Wet
						Medium dense	SILT, some organics. Faint sulfur odor.			
						Dense	Fine SAND, trace organics and silt. No odor.			
-10		3	N/A	92%		Dense	Fine SAND, trace silt. No odor. (Gray/white mottled silt, trace fine sand, lens 11.7-11.9')	SP	0.4	
						Medium dense	Fine SAND, trace silt. No odor.			
						Medium dense	(Gray/white mottled silt, trace fine sand, lens 11.7-11.9')			
-15		4	N/A	64%		Dense	Fine SAND, trace fine gravel.	SM	0.5	
							Fine to medium SAND and SILT, trace fine gravel. No odor.			
-20		5	N/A	52.5%	Gray	Broken	Fine to medium SAND, some to trace silt and fine gravel. Faint naphthalene odor and sheen from a 1/2" black sand lens at 18.9'.		0.0	Bedrock
							Light gray fine grained gneiss. Banding and fractures subhorizontal to approximately 45 Degrees off horizontal. Naphthalene odor and sheen in fractures at 23.4 to 24'.			
-25		6	N/A	96.8%			Light gray fine grained gneiss. Banding		0.3	Slight sheen on drill water 23'-24' and 24'-29'.
								1.3		

COMMENTS: See soil boring log for SBMF-06 for drilling dates and other information.

Bedrock monitoring well drilled with CME HSA drilling rig. Well adjacent to soil boring SBMF-06 drilled 3/14/2011.

Bedrock description from HQ core drilled from 19 to 34' bgs.

BORING NO. : BW-01

BORING NO. : BW-01

PROJECT: East 138th Street Works Site

SHEET: 2 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
-25	[Patterned Area]				Gray Banded	Broken	and fractures approx. 30 to 40 degrees off horizontal becoming near vertical at 29'. Naphthalene-like odor and DNAPL coating in fractures at 25' and 29'. LNAPL in mud tub		44.5	LNAPL in drill water 24' to 29' Rods coated with sheen
-30		7	N/A	83.3%			Light gray fine grained gneiss. Fractures and banding near vertical to approx. 45 degrees. Entire core coated with DNAPL assumed to be from 29' zone and dragged along core as it was drilled. LNAPL in mud tub.	N/A		Entire core coated with sheen. Greatest impacts 29'-31'
-35							Bottom of Boring at 34 feet.			
-40										
-45										
-50										
-55										

COMMENTS: See soil boring log for SBMF-06 for drilling dates and other information.

Bedrock monitoring well drilled with CME HSA drilling rig. Well adjacent to soil boring SBMF-06 drilled 3/14/2011.

Bedrock description from HQ core drilled from 19 to 34' bgs.

BORING NO. : BW-01

BORING NO. : BW-02

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Glacier Drilling, LLC

NORTHING: 231948.9 EASTING: 1009906.6

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 8.13

DATE TIME LEVEL TYPE TYPE

DATE STARTED: 1/30/12

DIA. 2" 4"

DATE FINISHED: 2/2/12

WT.

DRILLER: Allan Augustin

LENGTH 10'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0 -5 -10 -15 -20 -25		1	N/A	100%	Gray	Medium dense	Concrete	FILL	225	Moist Wet
		2	N/A	64%	Brown	Soft	FILL. SILT and fine to medium SAND, some to trace fine gravel and brick. Petroleum odor 0.8 ft. through 5 ft. Naphthalene odor below 5 ft bgs.			
		3	N/A	88%			Fine to medium SAND, trace fine gravel. Strong naphthalene odor. Sheen.		SW	1047
		4	N/A	78%	Gray	Medium dense	SILT and peat-like vegetation. Undifferentiated chemical odor.		ML	300
		SILT. Faint naphthalene-like odor.		Pt			77.0			
		Fine SAND. Faint naphthalene-like odor.		SP			75.2			
		Fine to medium SAND, some silt, trace fine gravel. Faint naphthalene-like odor.		SW			77.0			
		5	N/A	66%	Brown		Fine SAND. Very faint naphthalene-like odor.		SP	17.1
		SILT and fine to medium SAND, trace fine gravel. Faint naphthalene-like odor.		SM			12.0			

COMMENTS:

Bedrock monitoring well drilled with CME HSA drilling rig. Well located adjacent to MWMF-08 drilled on 3/18/2011.

Bedrock description from SQ core drilled from 31' to 36' and from HQ core drilled from 36' to 49' bgs.

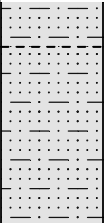
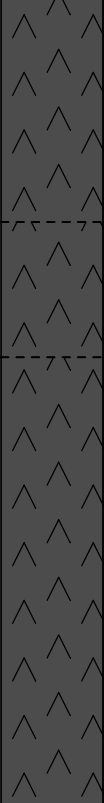
BORING NO. : BW-02

PROJECT: East 138th Street Works Site

SHEET: 2 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
-25		6	N/A	62%						
						Dense	SILT and fine SAND, trace fine gravel sized weathered shist bedrock. Naphthalene-like odor.		73.7	
-30		7	N/A		Gray		No samples collected			
		8	N/A	30.8%		Broken	Light gray shist rock. Foliated, medium grained mica rich shist rock with subhorizontal fractures and banding. Faint naphthalene odor at 31 feet.	N/A	2.0	Bedrock Slight sheen on drill water
-35		9	N/A				No core sample collected. Borehole drilled with a roller bit. Rock very broken, no sheen or odor.		0.0	
-40		10	N/A	70%			39-45.3': Medium grained gray gneiss rock, with fractures and banding approximately horizontal; 45.3'-47.5': fine grained gneiss rock with numerous alternating light and dark bands, oriented approximately 20 degrees to approximately 45 degrees. 47.5'-49': light gray dolomitic marble, slight reaction to HCL. Crystal structure visible in fractures. DNAPL and naphthalene-like odor at 39 to 40' and 45' bgs in fractures.		4.5	LNAPL in drill water at 40'.
-45				83.9%					0.2	LNAPL sheen on fracture at 47'.
-50							Bottom of boring at 49 feet.			
-55										

COMMENTS:

Bedrock monitoring well drilled with CME HSA drilling rig. Well located adjacent to MWMF-08 drilled on 3/18/2011.

Bedrock description from SQ core drilled from 31' to 36' and from HQ core drilled from 36' to 49' bgs.

BORING NO. : BW-03

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 3

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Glacier Drilling, LLC

NORTHING: 232140.8

EASTING: 1009898.2

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 8.01

DATE TIME LEVEL TYPE TYPE

DATE STARTED: 1/26/12

DIA. 2" 4"

DATE FINISHED: 2/2/12

WT.

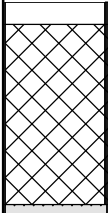
DRILLER: Allan Augustin

LENGTH 10'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS		
		NO.	BLOW COUNT	RQD%		CONSISTENCY					ROCK HARDNESS	
0		1	N/A	100%	Brown	Medium dense	Concrete	FILL	0.6	Moist		
									FILL. SILT and fine to medium SAND, some fine gravel. No odor.			
-5		2	N/A	68%	Black	Dense	SILT and fine to medium SAND, some fine gravel. Faint petroleum odor.	SM	1.4	Wet		
									Fine to medium SAND. No odor.	SW	0.1	
-10		3	N/A	76%					Fine to coarse SAND, trace fine gravel. Moderate naphthalene-like odor.		45.8	
					Brown - Gray		SILT, some organics, trace mollusk shells. Strong sulfur odor.	ML	118.1			
-15	4	N/A	66%				Fine SAND, some silt. Faint sulfur odor.	SM	2.4			
-20	5	N/A					No samples collected. Roller bit to refusal at 34.5 feet. Set up for rock core.	N/A		No sheen, NAPL or odor on drill water		
-25												

COMMENTS: Bedrock monitoring well drilled with CME HSA drilling rig. Well located adjacent to MWMF-05

completed on 3/17/11.

Bedrock description from SQ core drilled from 40 to 48' and from HQ core drilled from 48' to 58' bgs.

BORING NO. : BW-03

PROJECT: East 138th Street Works Site

SHEET: 2 OF 3

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS	
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS					
-25								N/A		No odors, NAPL or sheen.	
-35	^	6	N/A	20%	Gray	Very Broken	Weathered schist bedrock mixed with 70% soil comprised of silt and rounded gravel. Faint Naphthalene odor observed at 38 feet.	0.0		No odors, NAPL or sheen.	
-40		7	N/A	10%		Broken	Fine to medium grained gneiss. Thin, dark gray approximately horizontal banding to approximately 42.5' bgs. Core from approx. 42.5 to 45' missing. From approx. 45' to 48' bgs, very fractured medium grained medium gray gneiss. Quartz rich gneiss.	7.1		Took soil sample at 38.5'-39.5'.	
-45									0.0		No odors, NAPL or sheen.
-50		8	N/A	0%	Dark gray	Very Broken	Dark gray foliated schist. Highly fractured with fracture orientation approx. horizontal. No rock pieces greater than 3.5 inches. No odors or sheen. Friable.	0.0		No odors, NAPL or sheen.	
-55	9	N/A	45%	Medium gray.	Broken	Medium gray schist, foliated, friable. No odors or sheen.	0.0			No odors, NAPL or sheen.	
							Gray medium fine grained gneiss. Dark				

COMMENTS: Bedrock monitoring well drilled with CME HSA drilling rig. Well located adjacent to MWMF-05 completed on 3/17/11.

Bedrock description from SQ core drilled from 40 to 48' and from HQ core drilled from 48' to 58' bgs.

BORING NO. : BW-03

PROJECT: East 138th Street Works Site

SHEET: 3 OF 3

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
					Light gray.	Broken	and light gray banding oriented approximately 45 degrees. No odors or sheen.	N/A	0.0	No odors, NAPL or sheen.
-60							Bottom of boring at 58 feet.			
-65										
-70										
-75										
-80										
-85										

COMMENTS: Bedrock monitoring well drilled with CME HSA drilling rig. Well located adjacent to MWMF-05

completed on 3/17/11.

Bedrock description from SQ core drilled from 40 to 48' and from HQ core drilled from 48' to 58' bgs.

BORING NO. : BW-03

BORING NO. : BW-04

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Glacier Drilling, LLC

NORTHING: 232007.9

EASTING: 1010179.3

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 8.79

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore	HQ	
				DIA.		2"	4"	
				WT.				
				LENGTH		10'		

DATE STARTED: 1/25/12

DATE FINISHED: 2/1/12

DRILLER: Allan Augustin

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0 -5 -10 -15 -20 -25	[Cross-hatched pattern]	1	N/A	100%	Brown	Medium dense	Concrete	FILL	0.0	Moist	
						Loose	FILL. SILT and fine to medium SAND, trace to some fine gravel. No odor.				
	[Diagonal lines pattern]	2	N/A	58%	Gray	Soft	Same as above with moderate petroleum odor.		106	Wet	
	[Dotted pattern]	[Diagonal lines pattern]	3	N/A	30%	Brown	Medium dense	SILT and fine SAND. Moderate petroleum odor.	SM SW	108	
							Loose	Fine to medium SAND and trace fine gravel. Faint petroleum odor.		0.0	
[Horizontal lines pattern]	[Diagonal lines pattern]	4	N/A	63%			Medium to coarse SAND, some fine gravel and fractured rock. No odor.				
						Medium dense	SILT and fine to medium SAND, trace fine gravel. No odor.	SM	0.0		
							SILT, some fine to medium sand, trace fine gravel. No odor.		0.0		
		5	N/A	No samples collected.			No sample collected. Roller bit to refusal at 24.5 feet.	N/A	0.2	No NAPL, sheen or odor in drill water.	
	[Solid black pattern]	6	N/A	18.3%	Gray	Very Broken			0.0	Bedrock	

COMMENTS: Bedrock monitoring well drilled with CME HSA drilling rig. Well located adjacent to MWMF-07D drilled on 3/18/2011.

Bedrock description from HQ core drilled from 24.5' to 39.5' bgs.


BORING NO. : BW-04

PROJECT: East 138th Street Works Site

SHEET: 2 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
-25					Gray	Broken	Gray fine grained felsic gneiss. Well fractured along mica-rich subhorizontal banding.	N/A	0.0	No NAPL, sheen or odor in drill water.
-30		7	N/A	88.3%			Medium gray fine grained felsic gneiss with darker banding and fractures at approximately 45 degrees.		0.2	No NAPL, sheen or odor in drill water.
-35		8	N/A	85.8%			Medium gray fine grained felsic gneiss with alternating lighter and darker banding and fractures at approximately 45 degrees.		0.0	No NAPL, sheen or odor in drill water.
-40							Bottom of Boring at 39.5 feet.			
-45										
-50										
-55										

COMMENTS: Bedrock monitoring well drilled with CME HSA drilling rig. Well located adjacent to MWMF-07D drilled on 3/18/2011.

Bedrock description from HQ core drilled from 24.5' to 39.5' bgs.

BORING NO. : MW-01

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232350.24 EASTING: 1009728.42

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 8.11

DATE TIME LEVEL TYPE TYPE Macrocore

DATE STARTED: 03/24/10

6/8/2010 1713 4.94 DIA. 2"

DATE FINISHED: 03/26/10

WT.

DRILLER: Peter Eichler

LENGTH 5'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0	[Cross-hatched pattern]	1				Black	Loose	Concrete.	FILL	0.8	Moist
						Brown	Dense	FILL. Cinders, some silt, trace brick and wood. No odor.	FILL	1.2	
-5	[Cross-hatched pattern]	2					Loose	FILL. Cinders. No odor.	FILL	0.0	Wet
							Medium dense	FILL. Fine to medium SAND and fine GRAVEL, some silt. No odor.	FILL	0.0	
-10	[Dotted pattern]	3						SILT, trace fine sand. No odor.	ML	0.3	
						Black		SILT, some fine to medium sand and fine gravel. Moderate petroleum-like odor. Slight sheen.	ML	4.9	
-15	[Diagonal lines]	4				Gray	Soft	SILT, no odor.	ML	2.2	
								CLAY. Faint undifferentiated chemical odor.	CL	3.6	
-20	[Diagonal lines]	5						Clay, some organic material (yellow leaf-like material). Sulfur odor.	CL	12.8	
								CLAY. Trace mollusc shells. Sulfur odor.	CL	18-42	
-25	[Diagonal lines]										

COMMENTS: Boring advanced with track mounted Geoprobe 6620.

Soil samples collected from 3.1-4', 4.5-5', 11-12', and 18-19' bgs and analyzed for VOCs, SVOCs and TAL metals.

2-inch diameter Schedule 40 PVC 10 slot screen set from 3 to 13' bgs.

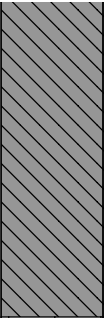
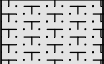
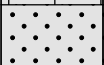
BORING NO. : MW-01

PROJECT: East 138th Street Works Site

SHEET: 2 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
-25		6								
-30		7								
						Medium dense	Fine SAND, some silt.	SM	5.1	
							Fine SAND, trace mica flakes. No odor.	SP	0.0	
-35							End of boring at 35' bgs.			
-40										
-45										
-50										
-55										

COMMENTS: Boring advanced with track mounted Geoprobe 6620.

Soil samples collected from 3.1-4', 4.5-5', 11-12', and 18-19' bgs and analyzed for VOCs, SVOCs and TAL metals.

2-inch diameter Schedule 40 PVC 10 slot screen set from 3 to 13' bgs.

BORING NO. : MW-02

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232319.09 EASTING: 1009366.94

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 9.00

DATE	TIME	LEVEL	TYPE	TYPE		
6/9/2010	1351	5.78		DIA.	Macrocore	2"
				WT.		
				LENGTH		5'

DATE STARTED: 04/14/2010

DATE FINISHED: 04/30/2010

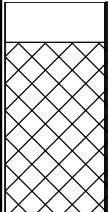
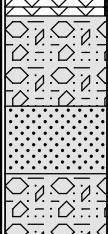
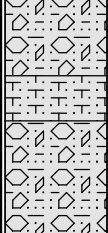
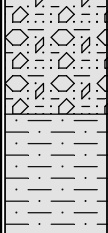
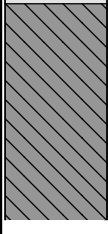
DRILLER: Evan Moraitis

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Concrete	Concrete	FILL	1.3	Moist
						Medium dense				
-5		2		37%	Gray	FILL. SILT, some fine to medium sand. Faint petroleum odor.	Fine to coarse SAND and fine GRAVEL. Petroleum odor.	FILL	2.8	Wet
					Brown			SW	36.2	
					Loose			SP	4.7	
-10		3		60%	Brown	Coarse SAND and fine GRAVEL. No odor.	Coarse SAND and fine GRAVEL. No odor.	GP	0.2	
						Medium dense		Fine SAND, some silt. No odor.	SM	0.2
						Loose		Fine to coarse SAND and fine gravel.	SW	0.2
-15		4		13%	Black	Medium dense	SILT, trace fine gravel. Sulfur odor.	GM	0.3	
						Loose				
-20		5		93%	Gray	CLAY, trace organics (yellow leaf-like material). Strong sulfur odor.	CLAY, trace organics (yellow leaf-like material). Strong sulfur odor.	CL	135	
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 6620.

Soil samples collected from 3.5-4.5', 5.5-6' and 12-12.5' bgs and analyzed for VOCs, SVOCs and TAL metals.

2-inch diameter Schedule 40 PVC 10 slot screen set from 3.5 to 13.5' bgs.

BORING NO. : MW-02

BORING NO. : MW-02

PROJECT: East 138th Street Works Site

SHEET: 2 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
-25		6		92%						
-30		7		97%			CLAY, trace organics (yellow leaf-like material) and mollusc shells. Strong sulfur odor.	CL	137	
						Brown	Peat. Slight sulfur odor.	Pt	10.1	
-35						Gray	CLAY, trace organics (yellow leaf-like material) and mollusc shells. Strong sulfur odor.	CL	120.2	
						End of boring at 35' bgs.				
-40										
-45										
-50										
-55										

COMMENTS: Boring advanced with track mounted Geoprobe 6620.

Soil samples collected from 3.5-4.5', 5.5-6' and 12-12.5' bgs and analyzed for VOCs, SVOCs and TAL metals.

2-inch diameter Schedule 40 PVC 10 slot screen set from 3.5 to 13.5 ' bgs.

BORING NO. : MW-02

BORING NO. : MW-03

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232521.22 EASTING: 1009930.27

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 8.43

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 04/15/2010

DATE FINISHED: 04/19/2010

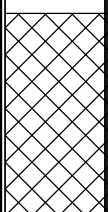


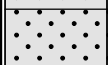
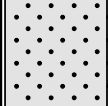
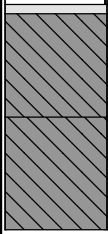
DRILLER: Evan Moraitis

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete FILL. Fine to coarse SAND and fine GRAVEL, some silt. No odor.	Concrete FILL	0.9	Moist
-5		2		47%	Black		Fine SAND and SILT, trace fine gravel. No odor.	SM	3.1	Wet
					Brown		Fine to coarse SAND, trace silt and fine gravel. Strong petroleum odor. Sheen.	SW	29.6	
-10		3		60%			Fine to coarse SAND, trace to some silt and fine gravel. Faint petroleum odor.	SW	11.3	
							Fine to coarse SAND, trace to some silt and fine gravel. No odor.	SW	0.3	
-15		4		0%			No recovery.	SW		
							Fine to coarse SAND, trace to some silt and fine gravel. No odor.	SW	4.6	
-20		5		88%	Gray	Dense	CLAY, trace organics (yellow leaf-like material). Strong sulfur odor.	CL	23.3	
							CLAY. Faint sulfur odor.	CL	12.2	
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 6620.

Soil samples collected from 3.5-4.5', 6-7' and 14-15' bgs and analyzed for VOCs, SVOCs and TAL metals.

2-inch diameter Schedule 40 PVC 10 slot screen set from 4 to 14' bgs.

BORING NO. : MW-03

PROJECT: East 138th Street Works Site

SHEET: 2 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
-25		6		97%			CLAY, trace organics (yellow leaf-like material) and mollusc shells. Moderate sulfur odor.	CL	8.2	
-30							End of boring at 30' bgs.			
-35										
-40										
-45										
-50										
-55										

COMMENTS: Boring advanced with track mounted Geoprobe 6620.

Soil samples collected from 3.5-4.5', 6-7' and 14-15' bgs and analyzed for VOCs, SVOCs and TAL metals.

2-inch diameter Schedule 40 PVC 10 slot screen set from 4 to 14' bgs.

BORING NO. : MW-04

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232103.94 EASTING: 1010136.43

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 8.13

DATE TIME LEVEL TYPE TYPE Macrocore

DATE STARTED: 04/16/2010

6/9/2010 0838 3.13' DIA. 2"

DATE FINISHED: 04/20/2010

WT.

DRILLER: Evan Moraitis

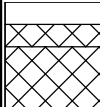
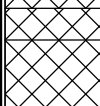

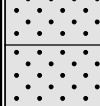
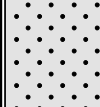

LENGTH 5'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Loose	Concrete	FILL	0.1	Moist
							Fill. Fine to coarse SAND and fine GRAVEL, some silt. No odor.	FILL	0.1	
-5		2		57%	Brown	Medium dense	Fill. SILT, some fine to medium sand, trace fine gravel. No odor.	FILL	96.7	Wet
							Fill. Fine to medium SAND, trace silt. Strong petroleum odor.	FILL	89.2	
-10		3		100%	Brown		Fill. Fine to medium SAND, trace silt. Strong petroleum odor. Sheen.	GP	7.9	
							Fill. Fine to medium SAND, trace silt. Strong petroleum odor. Sheen.	SP	1.2	
-15		4		40%	Gray	Dense	Fine to medium SAND and fine GRAVEL, some silt. Moderate petroleum odor.	SP	0.3	
							Fine SAND, trace silt. Faint petroleum odor.			
-20		5		0%	Brown	Medium dense	Fine SAND, trace silt. No odor.	Pt	52.8	
							PEAT. Strong sulfur odor.	CL	34.6	
-25							CLAY and SILT, some organics (yellow leaf-like material). Strong sulfur odor.	ML	1.9	
							Silt and fine SAND. Faint sulfur odor.			
							Fine micaceous SAND, trace silt. No odor.	MH	0.3	
							No recovery. Sample flowed out of macrocore liner.	No recovery		
							End of boring at 25' bgs.			

COMMENTS: Boring advanced with track mounted Geoprobe 6620.

Soil samples collected from 3.5-4.5' and 8.5-9.5' bgs and analyzed for VOCs, SVOCs and TAL metals.

2-inch diameter Schedule 40 PVC 10 slot screen set from 3 to 13' bgs.

BORING NO. : MW-04

BORING NO. : MW-05

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231695.80

EASTING: 1009773.41

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 9.48

DATE TIME LEVEL TYPE TYPE Macrocore

DATE STARTED: 04/26/2010

6/9/2010 0804 5.82' DIA. 2"

DATE FINISHED: 05/04/2010

WT.

DRILLER: Luke Caballero

LENGTH 5'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete.	Concrete FILL	0.9	Moist
							FILL. Fine to coarse SAND and fine GRAVEL, some silt, trace brick. No odor.			
							FILL. SILT and fine to medium sand, some fine gravel. Moderate to strong naphthalene odor. Slight sheen (jar shake test).	FILL	32.3	
-5		2		80%	Black	Soft	Fine to coarse SAND and fine gravel, some silt. Strong naphthalene odor. Sheen.	SW	105	Wet
								SM	24.8	
								SM	19	
								Pt	51.9	
					Brown	Medium dense	SILT and fine SAND, trace fine gravel. Strong naphthalene odor.	ML	25.6	
								SM	19.7	
-10		3		85%			Fine SAND, some silt. Strong naphthalene odor.			
							PEAT. Strong naphthalene odor.			
							SILT, some organic material. Moderate naphthalene odor.	SM	34.5	
					Black		SILT and fine SAND. Moderate naphthalene odor.	SW	230	
-15		4		57%			Fine SAND, some silt, trace fine gravel. Moderate naphthalene odor.		1200	
					Brown		Fine to medium SAND, trace silt. Strong naphthalene odor. Sheen.	SM	245	
							SILT and fine SAND. Strong naphthalene odor.			
-20		5		100%			SILT and fine SAND. Strong naphthalene odor. DNAPL .	SM	950	
							Refusal at 21' bgs. End of boring at 21' bgs.			
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 3-3.5', 4.5-5', 15-16', and 20.5-21' bgs and analyzed for VOCs, SVOCs and TAL metals.

2-inch diameter Schedule 40 PVC 10 slot screen set from 3 to 20.5' bgs.

BORING NO. : MW-05

BORING NO. : MW-06

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231654.24 EASTING: 1009986.30

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 9.97

DATE	TIME	LEVEL	TYPE	TYPE			
6/9/2010	0819	5.90		DIA.	Macrocore		
				WT.			
				LENGTH		5'	

DATE STARTED: 05/05/2010

DATE FINISHED: 05/12/2010

DRILLER: Luke Caballero

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0 -5 -10 -15 -20 -25		1		100%	Brown	Medium dense	Concrete	FILL	0.3	Moist
							FILL. Fine to coarse SAND and fine gravel. No odor.	FILL	0.4	
							FILL. SILT and fine SAND, trace fine gravel. No odor.			
		2		58%	Black	Loose	Fine to medium SAND, trace fine gravel and silt. Strong naphthalene odor.	GM	184	Wet
		3		100%		Dense	Weathered bedrock. Naphthalene odor. Sheen.	Bedrock	190	
							Refusal at 11' bgs. End of boring at 11' bgs.			

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 4-4.5' and 10.5-11' bgs and analyzed for VOCs, SVOCs and TAL metals.

2-inch diameter Schedule 40 PVC 10 slot screen set from 3 to 10' bgs.

BORING NO. : MW-06

BORING NO. : MW-07-URS

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231355.22 EASTING: 1010153.70

GROUNDWATER:

CAS. SAMPLER CORE TUBE

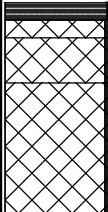
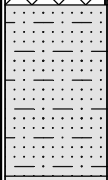
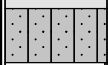
GROUND ELEVATION: 8.30

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 12/15/11
 DATE FINISHED: 12/16/11
 DRILLER: John Diamond
 GEOLOGIST: J. Boyd
 REVIEWED BY: M. Gutmann

* POCKET PENETROMETER READING

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Asphalt	FILL	0.0	Moist
							FILL. Cobble Stone layer.		0.1	
							FILL. Fine to medium SAND, with concrete layer 1.0-1.8'.		0.1	
-5		2		53%	Black	Dense	FILL: SILT, trace fine to medium sand and fine gravel. Several cobbles. No odor.	SM	22.2	V. Moist
							SILT and fine SAND. Faint petroleum odor. Trace fine gravel 6.0-8.8'.		26.4	Wet
-10		3		100%			SILT, trace fine sand.	ML	8.4	
					SILT, some fine sand.	33.7				
					Refusal at 10.5' bgs. End of boring at 10.5' bgs.	30.9				
-15										
-20										
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 4-4.5' and 9.8-10.5' bgs and analyzed for VOCs, SVOCs and TAL metals.

2-inch diameter Schedule 40 PVC 10 slot screen set from 4.6 to 9.6' bgs.

BORING NO. : MW-07-URS

BORING NO. : MW-11

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232284.29 EASTING: 1009815.03

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 8.05

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 1/07/11

DATE FINISHED: 1/19/11

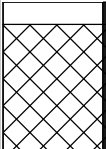

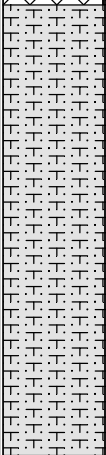

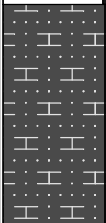
DRILLER: Lukas Reiss

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete	Fill	0 0.4	Moist
							FILL. Silt and fine to medium sand, some to trace fine gravel. No odor.			
-5		2		58%	Gray		FILL. Silt, trace fine to medium sand and fine gravel. No odor.	Fill	0.3	Wet
-10		3		100%	Brown	Soft-medium dense	Fine SAND, some to trace silt, trace fine gravel. No odor.	SM	0	
-15		4		0%			No Recovery.		0	
-20		5		62%	Gray	Stiff	Silty CLAY, trace organics (yellow-green plant material). Strong sulfur odor.	CL	8.9	
-25							End of boring at 25' bgs.			

COMMENTS: Boring advanced with track mounted Geoprobe 6600 or 7700.

Soil samples collected from 3.5-4.5', 5-6' and 20-21' bgs and analyzed for VOCs, SVOCs and TAL metals.

2" diameter Schedule 40 PVC 10 slot screen set from 3 to 13' bgs. 2" diam. Sched. 40 PVC sump set from 13 to 15' bgs

BORING NO. : MW-11

BORING NO. : SB-01

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232073.70

EASTING: 1009781.26

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 7.23

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 03/24/10

DATE FINISHED: 03/29/10

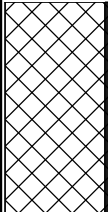
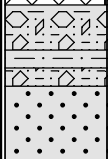

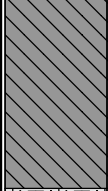
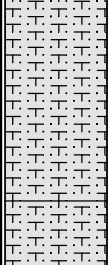
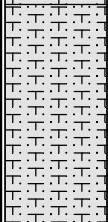
DRILLER: Luke Caballero

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100	Brown	Medium dense	Sand, silt and fine gravel. No odor.	Fill	1.9	Moist
-5		2		78		Dense	Fine to medium SAND and fine GRAVEL., trace silt. No odor.	GM	3.9	Wet
							SILT and fine SAND. No odor.	SM		
					Gray	Medium dense	Fine to medium SAND, some fine gravel, trace silt. No odor.	CL		
-10		3		72			Fine SAND, trace fine gravel. No odor.		4.7	
							Clay, trace yellow plant material. Strong sulfur odor.		3.0	
-15		4		85		soft	Fine SAND, trace silt, organics (yellow leaf-like material), and mica flakes. Faint sulfur odor.	MH	0.0	
							Fine SAND, some silt, trace mica flakes. Faint sulfur odor.			
-20		5		92	Brown	Medium dense	Fine SAND, some to trace silt. Faint sulfur odor.	SM	0.0	
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 6600 or 7700.

Soil samples collected from 4.5-5', 5-5.5', 8.5-10' and 33-34' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-01

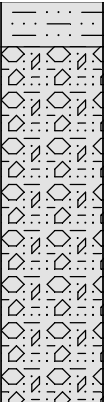
BORING NO. : SB-01

PROJECT: East 138th Street Works Site

SHEET: 2 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
-25		6		65	Gray		SILT, trace fine sand. No odor.		0.0	
						Brown		Fine to medium SAND, trace fine gravel and silt. No odor.	GM	
-30		7		90		Dense			0.0	
-35							Refusal at 34' bgs. End of boring at 34' bgs.			
-40										
-45										
-50										
-55										

COMMENTS: Boring advanced with track mounted Geoprobe 6600 or 7700.

Soil samples collected from 4.5-5', 5-5.5', 8.5-10' and 33-34' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-01

BORING NO. : SB-02

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232121.81

EASTING: 1009819.31

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 7.56

DATE TIME LEVEL TYPE TYPE Macrocore

DATE STARTED: 3/25/10

Date Time GW DIA. 2"

DATE FINISHED: 3/29/10

Date Time GW WT.

DRILLER: Luke Caballero

LENGTH 5'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0 -5 -10 -15 -20 -25	[Cross-hatched pattern]	1		100%	Brown to yellow brown	medium dense	Concrete	Concrete	-	Moist			
							FILL. Cinders, sand, trace silt.	FILL	1.2				
							FILL. Silt, sand and fine gravel. No odor.	FILL	1.7				
		[Dotted pattern]	2		40%	Gray		SILT and fine to medium SAND, trace to some fine gravel. Fuel oil odor. LNAPL coating on soil grains.	SM	85.5	Wet		
									Fine to medium SAND and fine GRAVEL, trace silt. Fuel oil odor. Sheen.	GW		49.1	
		[Diagonal hatched pattern]	3		82%			Fine SAND, trace silt and fine gravel. Faint fuel oil odor.	SW	0.6			
									Clay, trace organic material (yellow plant material). Strong sulfur odor.	CL		4.2	
		[Vertical hatched pattern]	4		80%					3.5			
										SILT and fine SAND. Faint sulfur odor.	SM	0.3	
										SILT and fine SAND. No odor.	SM	0.0	
	[Horizontal hatched pattern]	5		80%	Brown	dense							

COMMENTS: Boring advanced with track mounted Geoprobe 7720 rig.

Soil samples collected from 4.7-5.3', 11.5-13' and 27-28' bgs. Samples analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-02

PROJECT: East 138th Street Works Site

SHEET: 2 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
-25		6		94%			Weathered shist rock.		0.0	
-30							Refusal at 28' bgs. End of boring at 28' bgs.			
-35										
-40										
-45										
-50										
-55										

COMMENTS: Boring advanced with track mounted Geoprobe 7720 rig.

Soil samples collected from 4.7-5.3', 11.5-13' and 27-28' bgs. Samples analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-03

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232146.53 EASTING: 1009838.39

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 7.64

DATE TIME LEVEL TYPE TYPE Macrocore

DATE STARTED: 03/26/10

DIA. 2"

DATE FINISHED: 03/29/10

WT.

DRILLER: Luke Caballero

LENGTH 5'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0 -5 -10 -15 -20 -25		1		100%	yellow brown to brown	Loose to medium dense	Concrete FILL. Cinders, sand, silt and gravel. No odor. FILL. Fine to medium SAND and fine GRAVEL, some silt. No odor.	Concrete FILL FILL	0.4 0.4	Moist	
		2		80%	Gray	Medium dense	Fine to medium SAND and SILT, some to trace fine gravel. Fuel oil odor. LNAPL coated soil grains. Fine to medium SAND and fine GRAVEL. Fuel oil odor.	GM GW	41.2 30.1	Wet	
					Brown						Fine to medium SAND and SILT, trace fine gravel. Fuel oil odor. Sheen.
		3		83%	Gray			Clay, trace organics (yellow plant material). Sulfur odor.	CL	7.8 2.8	
										4	
5		83%	Brown	Soft to medium dense		Fine SAND, some silt. No odor.	SM	0.0			

COMMENTS: Boring advanced with track mounted Geoprobe 6600.

Soil samples collected from 4.5-5.5', 13-14', and 28-29' bgs and analyzed for VOCs, SVOCs and TAL metals.

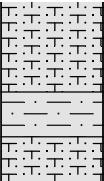
BORING NO. : SB-03

PROJECT: East 138th Street Works Site

SHEET: 2 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
-25		6		80%						
					Gray		SILT. No odor.	ML	0.0	
					Brown	Dense	Fine to medium SAND, some silt. No odor.	SM	0.0	
-30							Refusal at 29' bgs. End of boring at 29' bgs.			
-35										
-40										
-45										
-50										
-55										

COMMENTS: Boring advanced with track mounted Geoprobe 6600.

Soil samples collected from 4.5-5.5', 13-14', and 28-29' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-04

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232108.74 EASTING: 1009699.10

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 7.79

DATE TIME LEVEL TYPE TYPE Macrocore

DATE STARTED: 04/13/2010

DIA. 2"

DATE FINISHED: 04/16/2010

WT.

DRILLER: Luke Caballero

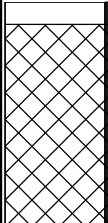
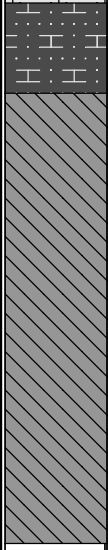
LENGTH 5'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Loose	Concrete	Concrete FILL	0.7	Moist	
						Medium dense	FILL. Cinders, sand, silt and fine gravel. No odor.				Wet
-5		2		40%			Dense	Fine SAND, trace fine gravel and silt. No odor.	GM	0.1	
								SILT and CLAY. No odor.	CL	0.1	
-10		3		50%	Gray	Medium dense	Clay, trace organics (yellow plant material). Strong sulfur odor.	CL	29.3		
-15		4		97%						97.3	
-20							End of boring at 20' bgs.				
-25											

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 2.5-3.5', 4.2-5' and 11-12' bgs and analyzed for VOCs, SVOCs and TAL metals.

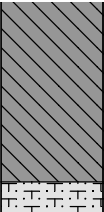
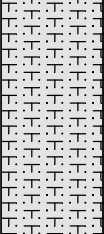
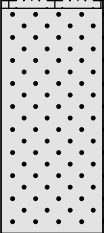
BORING NO. : SB-04

PROJECT: East 138th Street Works Site

SHEET: 2 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
-25		6		92%						
-30		7		100%	Brown		Fine SAND, trace silt. No odor.	SM	0.2	
-35		8		100%		Dense	Fine micaceous SAND. No odor.	MH	0.0	
-40							End of boring at 40' bgs.			
-45										
-50										
-55										

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 4-5', 6.5-7' and 11.5-12' bgs and analyzed for VOCs, SVOCs and TAL metals.

Comment3

BORING NO. : SB-06

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232303.44

EASTING: 1009957.10

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 7.79

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 04/14/2010

DATE FINISHED: 04/19/2010

DRILLER: John Diamond

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Loose	Concrete	Concrete		Moist
							FILL. Fine to coarse SAND and fine GRAVEL, some silt. No odor.	FILL	0.6	
								FILL	0.8	
						Medium dense	Boulder	FILL	0.3	
							FILL. SILT and fine to medium SAND, trace fine gravel and brick. No odor.			
-5		2		43%	Gray		Fine to coarse SAND and fine GRAVEL. "Swampy" odor.	GW	0.1	Wet
							Fine SAND, some fine gravel. "Swampy" odor.	GM	0.0	
								Pt	0.0	
-10		3		100%	Gray - brown		PEAT, some silt. No odor.	CL	0.9	
							CLAY, trace organics (yellow plant material). "Swampy" odor.	SM	1.3	
							Silty SAND. Faint sulfur odor.			
-15		4		97%		Soft				
							Silty SAND. No odor.	SM	0.1	
-20		5		100%						
							SILT and CLAY. No odor.	SC	0.0	
							Micaceous SILT, some fine sand. No	SM	0.0	
-25					yellow					

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 3-4', 4.5-5.5' and 10-11' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-06

PROJECT: East 138th Street Works Site

SHEET: 2 OF 2

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
-25		6		63%	brown to brown		odor.			
						Medium dense	Fine SAND, some silt. No odor.	SM	0.1	
							Fine micaceous SAND. No odor.	SM	0.1	
							Fine to coarse SAND, some silt and weathered rock fragments. No odor.	SM	0.1	
-30							Refusal at 30' bgs. End of boring at 30' bgs.			
-35										
-40										
-45										
-50										
-55										

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 3-4', 4.5-5.5' and 10-11' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-07

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231807.18 EASTING: 1010008.55

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 9.51

DATE TIME LEVEL TYPE TYPE Macrocore

DATE STARTED: 04/14/2010

DIA. 2"

DATE FINISHED: 04/20/2010

WT.

DRILLER: John Diamond

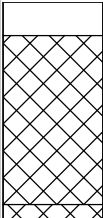
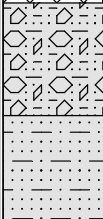
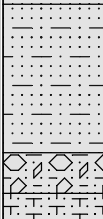
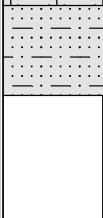

LENGTH 5'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete	Concrete	1.3	Moist	
							FILL. Fine to coarse sand and fine gravel, some silt, rock and brick. No odor.	FILL			
-5		2		33%	Black	Soft	SILT, some fine sand. Faint naphthalene-like odor.	SM	5.5	Wet	
								Fine to coarse SAND and fine GRAVEL, some silt. No odor.	GM		0.5
								SAND and SILT, trace fine gravel. Strong naphthalene-like odor. Sheen.	SM		24.6
-10		3		100%	Brown	Soft	SILT and fine SAND. Strong naphthalene-like odor.	SM	353		
					Black						
-15		4		92%	Black	Dense	Fine to coarse SAND, trace fine gravel. Strong naphthalene-like odor. Coated.	SW	277		
								Fine SAND, some silt. Strong naphthalene-like odor.	SM		742
								SILT and fine SAND, trace coarse sand and fine gravel. Moderate naphthalene-like odor. Sheen (jar shake test).	SM		257
-20							Refusal at 17' bgs. End of boring at 17' bgs.				
-25											

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 3-4', 4.5-5.5', 13.3-14.2' and 16-17' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-07

BORING NO. : SB-08

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231611.17 EASTING: 1009884.37

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 9.72

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 04/22/2010

DATE FINISHED: 04/29/2010

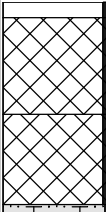
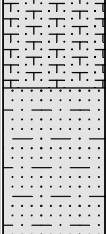
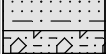
DRILLER: Evan Moraitis

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete	FILL	0.7	Moist	
								Fine to coarse SAND and fine GRAVEL, some silt. No odor.	FILL		1.1
								Fine to coarse SAND and fine GRAVEL, some silt. Moderate naphthalene-like odor.	GM		146
-5		2		67%			SILT, trace fine sand and fine gravel. Strong naphthalene-like odor.	SM	256	Wet	
						SILT and fine SAND, trace fine gravel. Strong naphthalene-like odor.	SW	215			
-10		3		100%	Black		Fine to coarse SAND, some fine gravel. Strong naphthalene-like odor. Slight sheen.				
							Refusal at 11' bgs. End of boring at 11' bgs.				
-15											
-20											
-25											

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 3-3.5, 7-7.5' and 10.5-11' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-08

BORING NO. : SB-09

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231980.00 EASTING: 1009713.74

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 7.53

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 04/22/2010

DATE FINISHED: 04/29/2010

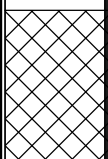

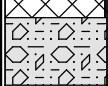
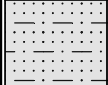
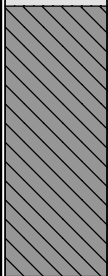
DRILLER: Evan Moraitis

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%				Concrete		
					Brown	Medium dense	FILL. Brick and cobbles, some fine to coarse sand and fine gravel, trace silt. No odor.	FILL	0.0	Moist
-5		2		73%			FILL. Brick, fine to medium sand and silt. trace fine gravel. No odor.	FILL	0.4	Wet
					Soft		Fine to coarse SAND and fine GRAVEL, some silt. No odor.	GM	0.4	
					Medium dense		SILT and fine SAND, trace fine gravel. No odor.	GM	0.4	
-10		3		80%	Gray	Dense	CLAY, trace organics (yellow plant material). Sulfur odor.	CL	6.1	
-15							End of boring at 15' bgs.			
-20										
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 4.5-5.5', and 7-8' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-09

BORING NO. : SB-10

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231762.52 EASTING: 1009687.41

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 8.88

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
				DIA.		Macrocore		
				WT.				
				LENGTH		5'		

DATE STARTED: 04/26/2010

DATE FINISHED: 04/29/2010

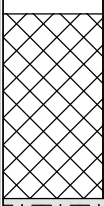
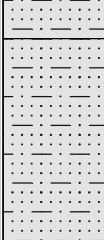
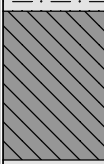
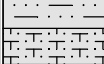
DRILLER: Evan Moraitis

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete. FILL. Fine to coarse SAND and fine Gravel, some silt. No odor.	Concrete FILL	0.6	Moist
-5		2		53%			SILT and fine to medium SAND, trace fine gravel and mica flakes. No odor.	GM	0.5	Very moist
							Micaceous SILT, some fine sand, trace fine gravel. No odor.	SM	0.8	Wet
-10		3		87%	Gray	Dense	Clay, trace organics (yellow plant material). Sulfur odor.	CL	5.6	
						Medium dense	SILT, some fine sand. No odor.	SM	0.7	
-15					Brown		Fine SAND, trace silt. No odor.	SM	0.7	
							End of boring at 15' bgs.			
-20										
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 3-4', 5-5.5', and 11-11.5' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-10

BORING NO. : SB-11

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231866.28 EASTING: 1009626.53

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 8.18

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 04/28/2010

DATE FINISHED: 04/29/2010

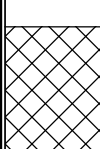
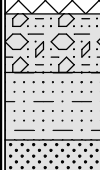
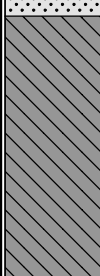
DRILLER: Evan Moraitis

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense.	Concrete	Concrete	0.2	Moist
					Red-brown	FILL. Fine to coarse SAND and fine GRAVEL, some silt and cinders. No odor.	FILL			
-5		2		48%	Brown		FILL. SILT and fine SAND, some wood pieces. Undifferentiated chemical odor.	FILL	2.2	Wet
						Fine to coarse SAND and fine GRAVEL, some silt. No odor.	GM	0.4		
						SILT and fine SAND, trace fine gravel. No odor.	GM	0.4		
						Fine SAND, trace fine gravel. No odor.	SW	0.4		
-10		3		77%	Gray		Fine SAND, trace fine gravel. No odor.	CL	0.8	
						CLAY, trace organics (yellow plant material). Slight sulfur odor.				
-15							End of boring at 15' bgs.			
-20										
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 3-4', 4.5-5' and 13-13.5' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-11

BORING NO. : SB-12

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231926.52

EASTING: 1009672.37

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 8.00

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 04/27/2010

DATE FINISHED: 04/29/2010

DRILLER: Evan Moraitis

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0 -5 -10 -15 -20 -25		1		100%		Medium dense.	Concrete	Concrete		Moist Wet
					Brown		FILL. Fine to coarse sand and fine gravel, some silt. No odor.	FILL	0.2	
					Black			FILL	0.4	
					Brown		FILL. Cinders.	FILL	1.6	
					Gray - Brown		FILL. Micaceous silt, some fine to medium sand, trace fine gravel. No odor.	SM	1.4	
		2		67%		Brown	SILT, trace fine to coarse sand. Swampy odor.	SM	0.7	
							Micaceous SILT, some fine sand, trace fine gravel. No odor.	SM	1.8	
							Micaceous SILT, some fine sand, trace fine gravel. Faint petroleum odor.	SM	0.6	
							Micaceous SILT, some fine sand, trace fine gravel. No odor.	CL	2.6	
						Gray	CLAY, trace organics (yellow plant material). Faint sulfur odor.			
						End of boring at 15' bgs.				

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 3.5-4', 4.5-5.5', 7-8' and 12-13' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-12

BORING NO. : SB-13

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231849.03 EASTING: 1009668.47

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 7.87

DATE TIME LEVEL TYPE TYPE Macrocore

DATE STARTED: 04/28/2010

DIA. 2"

DATE FINISHED: 04/29/2010

WT.

DRILLER: Evan Moraitis

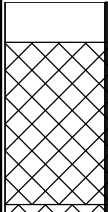
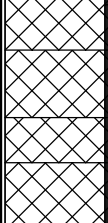
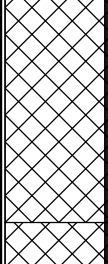
LENGTH 5'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown.	Medium dense.	FILL. Fine to coarse SAND and fine GRAVEL, some silt. No odor.	FILL	0.5	Moist			
		-5	2					55%			FILL. Cobbles, some fine to coarse SAND, fine GRAVEL and silt. No odor.	FILL	0.5
											FILL. SILT and fine SAND, some fine gravel. No odor.	FILL	0.5
											FILL. SILT, some fine to coarse sand. No odor.	FILL	0.5
-10		3		37%	FILL. Fine SAND, some silt. No odor.	FILL	0.4	Wet					
					FILL. Fine to coarse SAND and fine GRAVEL. No odor.	FILL	0.4						
-15		4		75%			FILL. Fine to coarse SAND and fine GRAVEL, some to trace silt. Piece of glass in sample. No odor.	FILL	0.4				
							Refusal at 16' bgs. End of boring at 16' bgs.						
-20													
-25													

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 3-4', and 15-16' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-13

BORING NO. : SB-14

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231968.28

EASTING: 1009763.62

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 7.58

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 04/28/2010

DATE FINISHED: 04/29/2010

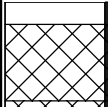
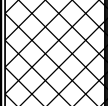
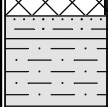
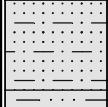
DRILLER: Evan Moraitis

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete	Concrete. FILL	0.5	Moist
					Gray - Brown		FILL. Fine to coarse SAND and fine GRAVEL, some silt. No odor.	FILL	1	Very moist
-5		2		50%	Black		FILL. SILT, some fine to medium sand, trace fine gravel. No odor.	FILL	0.3	Wet
					Brown		FILL. Shist cobble in matrix of silt, some fine to medium sand, trace fine gravel. no odor.	FILL	1.2	
-10		3		58%		Loose	FILL. Silt, some organics.	FILL	0.8	
							FILL. SILT and fine SAND, trace rounded fine gravel and wood. Swampy odor.	SM	0.6	
-15							SILT, trace fine sand. No odor.	GM	0.4	
						Med. dense.	Fine to coarse SAND and fine GRAVEL, some silt. No odor.	SM	0.4	
							Refusal at 15' bgs. End of boring at 15' bgs.			

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 3.5-4', 4.5-5' and 14.5-15' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-14

BORING NO. : SB-15

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231732.03 EASTING: 1009726.94

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 9.03

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 05/04/2010

DATE FINISHED: 05/04/2010

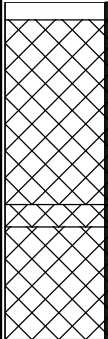
DRILLER: John Diamond

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense.	Concrete.	Concrete FILL	1.7	Moist	
-5		2		58%	Black		FILL. Fine to coarse SAND and fine gravel, trace brick. No odor.				
								FILL. Fine to medium SAND and fine GRAVEL, some silt. Moderate naphthalene odor.	FILL SM	21.2 103	Wet
						Brown		SILT, some organic material (yellow leaf-like structures). Undifferentiated chemical odor.	MH	20.1	
-10		3		92%				Fine SAND, some to trace silt. Undifferentiated chemical odor.	SM	5.1	
							SILT and CLAY. Undifferentiated chemical odor.	CL SP	10.6 47.1		
-15	4		65%				Fine SAND. Undifferentiated chemical odor.	SP	68		
							Fine SAND. Strong naphthalene odor.				
-20	5		83%		Black to brown		Fine to coarse SAND and fine GRAVEL, some silt. Strong naphthalene odor. Sheen.	GM	105		
					Black		Fine to medium SAND and fine gravel. Strong Naphthalene odor.	GM	42		
							Fine to coarse sand and fine gravel, some silt. Strong naphth. odor. Sheen (jar shake test).	GM	284		
-25							Refusal/End of boring at 23' bgs.				

COMMENTS: Boring advanced with track mounted Geoprobe 6620.

Soil samples collected from 3-3.5', 6-6.5' and 22-23' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-15

BORING NO. : SB-16

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231654.19

EASTING: 1009829.47

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 9.70

DATE	TIME	LEVEL	TYPE	TYPE	Macrocore		
				DIA.	2"		
				WT.			
				LENGTH	5'		

DATE STARTED: 05/05/2010

DATE FINISHED: 05/05/2010

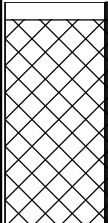
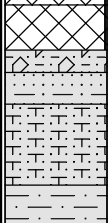
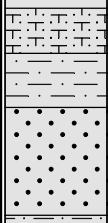
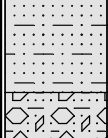
DRILLER: John Diamond

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense.	Concrete	FILL	0.4	Moist
								FILL. Fine to coarse sand and fine gravel, some silt, cobbles and brick. No odor.		
-5		2		83%	Black		FILL. Fine to coarse sand, some fine gravel and silt. No odor.	FILL	1.8	Wet
					Brown		Fine to coarse SAND and fine GRAVEL. Moderate naphthalene-like odor.	GW	24	
							SILT and fine SAND, trace organic material. Sulfur odor.	SM	1.1	
							Fine SAND, trace silt. No odor.	SM	0.8	
-10		3		83%	Brn-gray	Dense.	Mottled SILT (brown and gray). No odor.	ML	1.0	
					Brown		Fine SAND, some silt. No odor.	SM	1.7	
					Brn-gray		Mottled SILT (brown and gray). No odor.	ML	9.1	
							Fine SAND, some silt. No odor.			
							Mottled SILT (brown and gray). No odor.	SW	30.6	
							Fine to medium SAND. Faint naphthalene odor.			
-15		4		61%	Brown		SILT and fine to coarse SAND, trace fine gravel. Faint naphthalene odor.	SM	7.4	
					Black		Fine to coarse SAND and fine GRAVEL, trace silt. Strong naphthalene odor.	SW	450	
-20							Refusal at 18' bgs. End of boring at 18' bgs.			
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 6620.

Soil samples collected from 3.5-4', 6-6.5', 9-10' and 17.5-18' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-16

BORING NO. : SB-17

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231695.45 EASTING: 1010018.17

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 9.87

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 05/11/2010

DATE FINISHED: 05/12/2010

DRILLER: Luke Caballero

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete	FILL	8.3	Moist
							Fine to coarse SAND and fine GRAVEL, some silt. No odor.	FILL	0.7	
-5		2		85%	Black	Running	Fine GRAVEL, some fine to coarse sand, trace silt. No odor.	FILL	14.8	Wet
							SILT and fine to medium SAND, some fine gravel. Faint naphthalene odor.	ML	47.3	
					Loose	SILT, trace fine to medium sand and fine gravel. Moderate naphthalene odor. Sheen.	SW	30.4		
					Dense	Fine to medium SAND, trace silt. Moderate naphthalene odor.	ML	99.3		
-10		3		93%	Brown		SILT, some clay. Strong naphthalene odor.	GM	347	
						Medium dense	Fine to medium SAND, some fine gravel and silt. Strong naphthalene odor.	Bedrock	898	
					Brn-gold	Dense	Weathered shist bedrock. Very micaceous. Strong naphthalene odor.			
-15							Refusal at 12.5' bgs. End of boring at 12.5' bgs.			

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 3-3.5', 5.5-6' and 12-12.5' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-17

BORING NO. : SB-18

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231733.78 EASTING: 1010103.05

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 9.11

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 05/11/2010

DATE FINISHED: 05/12/2010

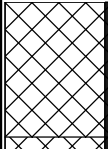
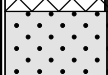
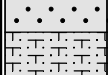
DRILLER: Luke Caballero

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	FILL. Fine to coarse SAND and fine to medium GRAVEL, some silt. No odor.	FILL	0.4	Moist
							FILL. SILT, trace fine to coarse sand and fine gravel. No odor.	FILL	0.5	
							Fine to coarse SAND, trace fine gravel and silt. No odor.	FILL	0.4	
							SILT, trace fine to medium sand and fine gravel. No odor.	ML	1.8	
-5	 	2		94%		Dense	Weathered bedrock (micaceous). No odor.	Bedrock	0.3	Wet
-10							Refusal at 9' bgs. End of boring at 9' bgs.			
-15										
-20										
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 4-4.5', 5.5-6' and 8.5-9' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-18

BORING NO. : SB-19

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231573.64 EASTING: 1009982.67

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 9.79

DATE TIME LEVEL TYPE TYPE Macrocore

DATE STARTED: 05/12/2010

DIA. 2"

DATE FINISHED: 05/12/2010

WT.

DRILLER: Luke Caballero

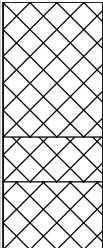
LENGTH 5'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	FILL. Fine to coarse SAND and fine GRAVEL, some silt. No odor.	FILL	0.3	Moist
							FILL. SILT and fine to medium SAND, trace fine gravel. No odor.	FILL	0.3	
-5		2		100%	Gray		FILL. SILT, some fine to medium sand, trace fine gravel. Moderate petroleum odor.	FILL	37.6	
							Refusal at 5.5' bgs. End of boring at 5.5' bgs.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 3-4' and 5-5.5' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-19

BORING NO. : SB-20

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231450.01 EASTING: 1010085.27

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 9.25

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 12/15/2011

DATE FINISHED: 12/16/2011

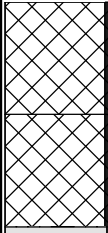
DRILLER: John Diamond

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	FILL. SILT some fine to medium SAND and fine gravel. No odor.	FILL	0	Moist
-5		2		100%	Gray brown		FILL. SILT, trace fine to medium sand and fine gravel. No odor. Slight petroleum odor at 4.5' bgs.	FILL	18.4 2.4	V. Moist
-5							SILT and fine to medium SAND, some fine gravel. Weathered schist in shoe.			
-5.5							Refusal at 5.5' bgs. End of boring at 5.5' bgs.			

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 3-3.5' and 4.5-5' bgs and analyzed for VOCs, SVOCs and TAL metals.

Soil sample collected from 5-5.5'bgs for forensic analyses.

BORING NO. : SB-20

BORING NO. : SB-21

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231565.35 EASTING: 1010411.96

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 9.97

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 12/15/2011

DATE FINISHED: 12/16/2011

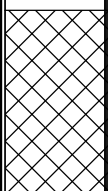
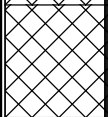
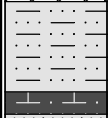
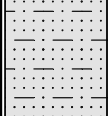
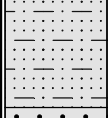
DRILLER: John Diamond

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete	FILL	0	Moist
							FILL. SILT and fine to medium SAND, some fine gravel, trace wood. No odor.		0.2 0.1	
-5		2		44%	Black	Medium Dense	FILL. Cinders. No odor.	FILL	0.2	V. Moist to Wet
					Brown		SILT and fine SAND, trace fine gravel. No odor.	SM	0.2	
-10		3		30%	Lt. Brn	Soft	CLAYEY SILT, trace fine sand. No odor	ML	4.2	
					Brown	Medium Dense	SILT and fine SAND, trace fine gravel. Sulfur odor.	SM	4.4	
-15		4		40%	Dark Brown	Medium Dense	Fine to medium SAND, trace silt and fine gravel and wood. Sulfur odor	SP	22.9	
							Medium to coarse SAND and fine GRAVEL, trace silt. Sulfur odor.	SP	0.3	
-20		5		50%			Fine to coarse SAND and fine GRAVEL, some silt. DNAPL coated, naphthalene odor.	SM	35.8	
							Refusal at 22' bgs. End of boring at 22' bgs.			
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil samples collected from 3.5-4', 10-11', 21-22' bgs and analyzed for VOCs, SVOCs and TAL metals.

Soil sample collected from 21-22' bgs also sent for forensic analyses.

BORING NO. : SB-21

BORING NO. : SB-22

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison Company of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 231595.52 EASTING: 1010344.08

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 9.75

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 12/15/2011

DATE FINISHED: 12/16/2011

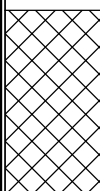
DRILLER: John Diamond

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete	Concrete	0.2	Moist
-5							FILL. SILT and fine to medium SAND, some fine gravel, trace brick/wood/rope. No odor. Large rock at 3.5'	FILL	0.3	
-5							Refusal at 5.0' bgs. End of boring at 5.0' bgs.			V. Moist
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 7720.

Soil sample collected from 4-4.5' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-22

BORING NO. : SB-32

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232316.84 EASTING: 1009771.32

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 8.09

DATE TIME LEVEL TYPE TYPE Macrocore

DATE STARTED: 1/13/11

DIA. 2"

DATE FINISHED: 1/17/11

WT.

DRILLER: Lukas Reiss

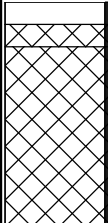
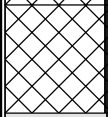
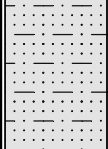
LENGTH 5'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Loose	Concrete	Fill	0	Moist
						Medium dense	FILL. Coarse sand and and fine gravel (cinders). No odor.	Fill	0.1	
							FILL. SILT and fine to medium SAND, some fine gravel and red brick. No odor.		0.1	
-5		2		66%			FILL. Fine SAND, trace fine gravel and red brick. No odor.	Fill	0	Wet
							SILT and fine SAND, trace fine gravel. Faint naphthalene-like odor 9-10'.	SM	0	
-10		3		90%	Gray-Brn	Stiff	Silty CLAY, trace organics (yellow-brown plant material). Strong sulfur odor.	CL	9.0	
-15							End of boring at 15' bgs.			
-20										
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 6600 or 7700.

Soil samples collected from 3-4', 5-6', 9-10' and 13-14' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-32

BORING NO. : SB-33

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232299.94

EASTING: 1009742.41

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 12.37

DATE TIME LEVEL TYPE TYPE Macrocore

DATE STARTED: 1/11/11

DIA. 2"

DATE FINISHED: 1/14/11

WT.

DRILLER: Lukas Reiss

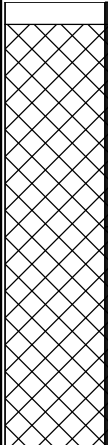
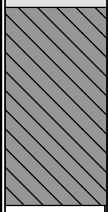
LENGTH 5'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete	Fill	0	Moist	
-5		2		36%		Loose to medium dense	SILT and fine to medium SAND, trace fine gravel and rock. No odor.				
-10		3		98%		Dense	Fine to medium SAND and fine GRAVEL, some silt. Ammonia-like odor.	GM	13.8		Wet
-12							Coarse SAND and fine GRAVEL, trace silt and fine sand. No odor.	GM SM	2.2 1.1		
-15		4		96%	Gray	Stiff	Medium to coarse SAND. No odor.	SP	1.1		
-18						CLAY, trace silt. Sulfur odor.	CL	8.9			
-20							End of boring at 20' bgs.				
-25											

COMMENTS: Boring advanced with track mounted Geoprobe 6600 or 7700.

Soil samples collected from 3.5-4', 10.5-11' and 13.5-14' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-33

BORING NO. : SB-34

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232236.86

EASTING: 1009694.57

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 12.35

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 1/10/11

DATE FINISHED: 1/14/11

DRILLER: Lukas Reiss

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete	Fill	0 0.1	Moist	
-5		2		84%			FILL. Micaceous SILT and fine to medium SAND, some fine gravel and gneiss cobbles. No odor				
								FILL. Cinders. No odor.	Fill	0	
								FILL. SILT, some fine to medium sand, trace fine gravel. No odor.	Fill SM	0 0	
								FILL. Cinders. No odor.			
-10		3		84%			Fine to medium SAND, some silt. No odor.			Wet	
					Dense			ML	0		
					Dk Brown	Medium dense	SILT. No odor.	SM	0.1		
							SILT and fine SAND. No odor.				
-15		4		16%	Brown		SILT and fine to medum SAND, trace fine gravel. No odor.	SM	0.1		
-20		5		86%		Soft	SILT, some clay. No odor.	ML	3.7		
					Gray	Stiff	CLAY, trace mollusc shells. Strong sulfur odor.	CL	11.1		
-25							End of boring at 25' bgs.				

COMMENTS: Boring advanced with track mounted Geoprobe 6600 or 7700.

Soil samples collected from 10-11' and 20-20.9' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-34

BORING NO. : SB-35

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232237.32

EASTING: 1009663.31

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 12.57

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 1/10/11

DATE FINISHED: 1/18/11

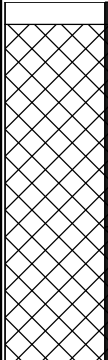
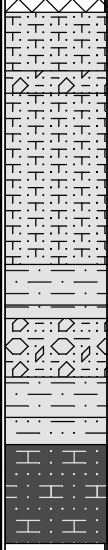
DRILLER: Lukas Reiss

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete	Fill	0	Moist
-5		2		58%			FILL. Silt and fine to medium sand, trace fine gravel. Trace wood and red brick. No odor.			
-10		3		82%			Fine SAND, some silt, trace fine gravel. No odor.			
-15		4		100%			Medium to coarse SAND, trace fine gravel. No odor.			
-15					Gray	Dense	Fine to coarse SAND, some silt, trace fine gravel. No odor.	ML	0	Wet
-15						Soft	Micaceous SILT, some fine sand. No odor.	ML SM	0 0	
-17.2							Fine to coarse SAND, some to trace silt, some to trace fine gravel. No odor.	ML	0	
-17.8							SILT. No odor.	ML CL	0 0	
-20							SILT, trace fine sand and gravel. No odor.			
-20							Silty CLAY. No odor.			
-25										End of boring at 20' bgs.

COMMENTS: Boring advanced with track mounted Geoprobe 6600 or 7700.

Soil samples collected from 9-10' and 17.2-17.8' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-35

BORING NO. : SB-36

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232100.51 EASTING: 1009803.65

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 7.42

DATE TIME LEVEL TYPE TYPE Macrocore

DATE STARTED: 1/13/11

DIA. 2"

DATE FINISHED: 1/17/11

WT.

DRILLER: Lukas Reiss

LENGTH 5'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete. SILT and fine to medium SAND, some fine gravel. No odor.	Fill	0	Moist
-5		2		40%			Medium SAND (backfill). No odor. SILT and fine to medium SAND, some fine gravel. No odor.	Fill SM	0 0	Wet
-10		3		70%			Fine SAND, trace silt near bottom of interval. No odor.	SM	0	
-15		4		64%	Gray	Stiff	CLAY, trace organic material (yellow-green plant material). Faint sulfur odor.	CL	1.6	
-20							End of boring at 20' bgs.			
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 6600 or 7700.

Soil samples collected from 3-4', 6.5-7' and 13.5-14.2' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-36

BORING NO. : SB-37

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232125.94 EASTING: 1009791.45

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 12.50

DATE TIME LEVEL TYPE TYPE

DATE STARTED: 1/6/2011

DIA. 2"

DATE FINISHED: 1/11/2011

WT.

DRILLER: Lukas Reiss

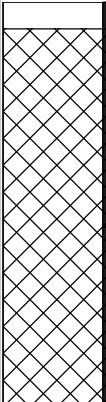
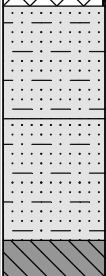
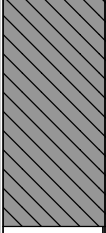

LENGTH 5'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete	Concrete	0	Moist
								Sand, silt, fine gravel and cinders. Trace wood. Moderate petroleum odor 8.2 to 9.0'.	Fill	
-5		2		56%		Loose			2.8	Wet
-10		3		56%		Medium dense	SILT and fine SAND, trace fine gravel. Faint petroleum odor.	SM	7.3	Wet
-15		4		66%	Gray	Soft	SILT and fine SAND. No odor.	SM	0	
								CLAY, trace organic material (yellow-green plant material). Sulfur odor.	CL	
-20							End of boring at 20' bgs.			
-25										

COMMENTS: Boring advanced with track mounted Geoprobe 6600 or 7700.

Soil samples collected from 3-4', 8.2-9', and 13.5-14.5' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-37

BORING NO. : SB-38

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232155.44

EASTING: 1009804.98

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 12.66

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 1/6/2011

DATE FINISHED: 1/11/2011

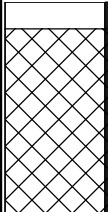
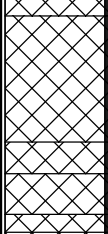
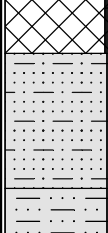
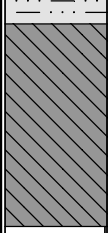
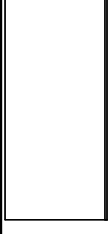
DRILLER: Lukas Reiss

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete	Fill	0 1.3	Moist
							SILT and fine to medium SAND, some fine gravel. Faint undifferentiated chemical odor 3-3.5'.			
-5		2		100%	Black	Loose	Clean medium SAND. No odor.	Fill	0 3.5	Wet
						Medium dense	Fine to medium SAND, some silt, trace fine gravel. Faint naphthalene-like odor.			
-10		3		56%	Brown		Medium SAND, some fine gravel. No odor.	Fill	0.4 0.2 5.3	Wet
							Cinders. No odor.			
-15		4		60%	Gray		SILT and fine to medium SAND, some red bricks and rock, trace fine gravel. Faint petroleum odor.	SM	13.4 2.0	Wet
						Stiff	SILT and fine to medium SAND, some fine gravel. Petroleum odor and slight sheen. 11-12.5'.			
-20							SILT, trace fine sand. No odor.	CL	3.8	Wet
							CLAY. Trace organic material (yellow-green plant material). Sulfur odor.			
-25							End of boring at 20' bgs.			

COMMENTS: Boring advanced with track mounted Geoprobe 6600 or 7700.

Soil samples collected from 4-5', 7.8-8.5', 11-11.5' and 15.5-16.5' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-38

BORING NO. : SB-39

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232161.34 EASTING: 1009850.12

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 7.73

DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		5'		

DATE STARTED: 1/07/11

DATE FINISHED: 1/17/11

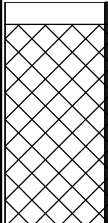
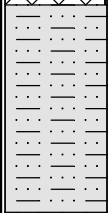
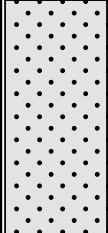
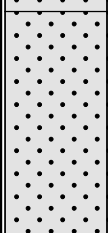
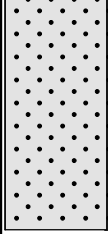
DRILLER: Lukas Reiss

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete	Fill	0.7	Moist
							SILT and fine to medium SAND, some fine gravel. No odor.			
-5		2		84%			SILT and fine to medium SAND, some fine gravel. Strong petroleum odor. Coating.	SM	85.6	Wet
-10		3		66%	Gray	Stiff	Silty CLAY. Trace mollusc shells and yellow-green plant material. Sulfur odor.	CL	0.1	
-15		4		56%	Brown	Soft	Fine SAND. No odor.	SP	0	
-20		5		76%						
-25							End of boring at 25' bgs.			

COMMENTS: Boring advanced with track mounted Geoprobe 6600 or 7700.

Soil samples collected from 3.5-4', 5-5.5' and 14-15' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-39

BORING NO. : SB-40

PROJECT/PROJECT LOCATION: East 138th Street Works Site

SHEET: 1 OF 1

CLIENT: Consolidated Edison of New York

JOB NO. : 11176159

BORING CONTRACTOR: Zebra Environmental

NORTHING: 232212.05 EASTING: 1009782.50

GROUNDWATER:

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 12.63

DATE TIME LEVEL TYPE TYPE Macrocore

DATE STARTED: 1/11/11

DIA. 2"

DATE FINISHED: 1/14/11

WT.

DRILLER: Lukas Reiss

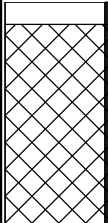
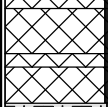
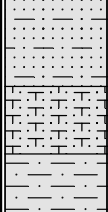
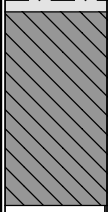
LENGTH 5'

GEOLOGIST: J. Boyd

* POCKET PENETROMETER READING

REVIEWED BY: M. Gutmann

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID (PPM)	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY				

0		1		100%	Brown	Medium dense	Concrete	Fill	0	Moist	
-5		2		80%			FILL. SILT, and fine to medium SAND, trace to some fine gravel and cobbles. No odor.	Fill	0		
-10			3		78%	Black		FILL. Coarse SAND and fine GRAVEL, some fine to medium sand, trace silt. No odor.	Fill	0.3	Wet
						Brown		FILL. SILT and fine SAND, trace coarse sand. No odor.	ML	14.8	
-15		4		70%		Dense	FILL. Coarse SAND and fine GRAVEL (cinders). Petroleum odor.	SW	3.3		
					Gray		SILT and fine SAND, some coarse sand, trace fine gravel. Faint petroleum odor.	ML	5.4		
					Soft		Fine SAND, some silt. No odor.				
-20							SILT. Faint sulfur odor.	CL	10.4		
-25							CLAY, trace organic material (yellow-green plant material). Sulfur odor.				
							End of boring at 25' bgs.				

COMMENTS: Boring advanced with track mounted Geoprobe 6600 or 7700.

Soil samples collected from 9.5-10' and 13.5-14.5' bgs and analyzed for VOCs, SVOCs and TAL metals.

BORING NO. : SB-40

Project Name: Con Edison East 138th Street

Project Location: Bronx, NY

Project Number: 11176159.20000

Log of Boring SB-41

Sheet 1 of 1

Date (s) Drilled	2/18/14 - 2/18/14	Logged By	M. Dascoli	Approximate Surface Elevation (feet)	----
Drilling Method	Direct Push	Drilling Contractor	ADT	Casing Top Elevation	----
Sampling Method	Macrocores	Drill Rig Operator	Chris Migliore	Screen Type/Slot	----
Drill Rig Type	Geoprobe 420M	Casing Type/Diameter	----	Gravel Pack Type	----
Groundwater Depth	6.5	Groundwater Elevation		Grout Type/Quantity	----

Remarks: Samples collected at 0.5'-1.0' for VOC, SVOC, TAL Metals, at 7'-9' for VOC, and from 9'-11' for SVOC.

ELEVATION (ft)	DEPTH (ft. BGL)	SAMPLE ID.	EXTENT	RECOVERY (ft)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft)	ENV SAMPLE DEPTH	WATER DEPTH
		1	X	3	6 1.3 0.1		Concrete	Concrete	0.5	X	
			X				Dark brown FILL- sand, few ash, clay pockets, few glass, gravel, refractory brick, red brick pieces. Brick at 18".	Dark brown FILL- sand, few ash, clay pockets, few glass, gravel, refractory brick, red brick pieces. Brick at 18".	1.5		
			X				Dark brown FILL- bricks, cobbles, few sand and gravel, no odor.	Dark brown FILL- bricks, cobbles, few sand and gravel, no odor.	3		
		MC 2	X	2	0 0		Black FILL- sand, silt, few gravel, few red brick, refractory brick at 4'. Dry, no odors, soft.	Black FILL- sand, silt, few gravel, few red brick, refractory brick at 4'. Dry, no odors, soft.	5		
		MC 3	X	0.7	0 0		Same as above, tan refractory brick at 6'-6.5'. Wet at 6.75'. No odors.	Same as above, tan refractory brick at 6'-6.5'. Wet at 6.75'. No odors.	7		▲
		MC 4	X	1	2.0 2.4		Black FILL- crumbled refractory brick and red brick, few silt. No odors. at 8.5'-9' & 10.5'-11', 1"-2 pieces of refractory and red brick.	Black FILL- crumbled refractory brick and red brick, few silt. No odors. at 8.5'-9' & 10.5'-11', 1"-2 pieces of refractory and red brick.	11	X	
		MC 5	X	0.8	0.1 0.2		No recovery from 11'-17'. Several attempts made to collect 15'-17', refractory brick piece found in the shoe each time.	No recovery from 11'-17'. Several attempts made to collect 15'-17', refractory brick piece found in the shoe each time.	17	X	
		NR 6		0			Bottom of borehole at 17.0 feet.	Bottom of borehole at 17.0 feet.			
		NR 7		0							
		MC 8		0	2.0						

Project Name: Con Edison East 138th Street

Project Location: Bronx, NY

Project Number: 11176159.20000

Log of Boring SB-42

Sheet 1 of 1

Date (s) Drilled	2/19/14 - 2/21/14	Logged By	M. Dascoli	Approximate Surface Elevation (feet)	
Drilling Method	Direct Push	Drilling Contractor	ADT	Casing Top Elevation	----
Sampling Method	Macrocores	Drill Rig Operator	Chris Migliore	Screen Type/Slot	----
Drill Rig Type	Geoprobe 6610DT	Casing Type/Diameter	----	Gravel Pack Type	----
Groundwater Depth	6.8	Groundwater Elevation		Grout Type/Quantity	----

Remarks Samples collected at 0.5'-1' and 18.5'-19.5' for VOC, SVOC, and TAL Metals.

ELEVATION (ft)	DEPTH (ft. BGL)	SAMPLE ID.	EXTENT	RECOVERY (ft)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft)	ENV SAMPLE DEPTH	WATER DEPTH
		1		3	2.0		Concrete	Concrete	0.5		
					1.0	FILL	Black FILL, coarse sand, fine gravel, few cobbles, few silt, dry. Faint MGP-like odor. Headspace readings 0.5'-1'=17.1 pp; 1'-2'=13.6ppm.	Black FILL, coarse sand, fine gravel, few cobbles, few silt, dry. Faint MGP-like odor. Headspace readings 0.5'-1'=17.1 pp; 1'-2'=13.6ppm.	2		
					0.7	FILL	Dark brown FILL- coarse sand, gravel, ash, refractory brick at 2.5'. No odor. Dry.	Dark brown FILL- coarse sand, gravel, ash, refractory brick at 2.5'. No odor. Dry.	2.5		
						FILL	COBBLE	COBBLE			
		MC 2				SM	Macro liner stuck in macro and not retrieved. Recovered 3" from the shoe- Dark gray vf SAND and SILT. Headspace= 351 ppm.	Macro liner stuck in macro and not retrieved. Recovered 3" from the shoe- Dark gray vf SAND and SILT. Headspace= 351 ppm.	5		
		MC 3		5	183.5	SM	Dark gray, soft, vf SAND, some silt, trace clay, moderate MGP-like odor, light coating. Wet.	Dark gray, soft, vf SAND, some silt, trace clay, moderate MGP-like odor, light coating. Wet.	10		
					379.6				11.5		
					249.2	SM	Dark gray, dense, vf SAND, some silt, few clay, moderate MGP-like odor, light coating. Wet.	Dark gray, dense, vf SAND, some silt, few clay, moderate MGP-like odor, light coating. Wet.			
					259.7						
					380.1	SM	Dark gray, dense, vf-m SAND, trace silt, trace fine gravel, moderate MGP-like odor, light coating. Wet. Headspace at 15'= 1052 ppm.	Dark gray, dense, vf-m SAND, trace silt, trace fine gravel, moderate MGP-like odor, light coating. Wet. Headspace at 15'= 1052 ppm.	14		
		MC 4		4.8	588		dense, vf-m SAND, trace silt, few fine gravel. Strong MGP-like odor throughout.	dense, vf-m SAND, trace silt, few fine gravel. Strong MGP-like odor throughout.	15		
					332		15'-16' free product in liner, dark brown NAPL, 20% saturation.	15'-16' free product in liner, dark brown NAPL, 20% saturation.			
					160.1	SM	16'-20' lightly coated to 10% saturation. Sheen spots throughout.	16'-20' lightly coated to 10% saturation. Sheen spots throughout.			
					147						
					175	SM	Same as above with weathered rock and mica, dense. 100% saturation and free product on top of weathered rock, dark brown NAPL. Strong MGP-like odor. Headspace at 20'= 772ppm.	Same as above with weathered rock and mica, dense. 100% saturation and free product on top of weathered rock, dark brown NAPL. Strong MGP-like odor. Headspace at 20'= 772ppm.	19		
							Bottom of borehole at 20.0 feet.	Bottom of borehole at 20.0 feet.	20		

Project Name: Con Edison East 138th Street

Project Location: Bronx, NY

Project Number: 11176159.20000

Log of Boring SB-43

Sheet 1 of 1

Date (s) Drilled	2/19/14 - 2/19/14	Logged By	M. Dascoli	Approximate Surface Elevation (feet)	
Drilling Method	Direct Push	Drilling Contractor	ADT	Casing Top Elevation	----
Sampling Method	Macrocores	Drill Rig Operator	Chris Migliore	Screen Type/Slot	----
Drill Rig Type	Geoprobe 6610DT	Casing Type/Diameter	----	Gravel Pack Type	----
Groundwater Depth	5.0	Groundwater Elevation		Grout Type/Quantity	----

Remarks Samples collected at 1'-2' for VOC, SVOC, and TAL metals, and at 10'-12' for VOC, SVOC, and fingerprinting.

ELEVATION (ft)	DEPTH (ft. BGL)	SAMPLE ID.	EXTENT	RECOVERY (ft)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft)	ENV SAMPLE DEPTH	WATER DEPTH
		1		5	0			Concrete	0.5		
					0	FILL		FILL- dark brown, dry, coarse sand and gravel, trace silt, ash, no odor.	1		
					0	FILL		FILL- dark brown, dry, fine to coarse sand with few refractory brick pieces, some wood.			
					0			FILL- dark brown, dry, fine to coarse sand and gravel, red brick pieces, concrete cobbles, refractory brick, no odors.	3		
					0	FILL					
	5	MC 2		0.2	123.2	FILL		FILL- wood in shoe, wood is coated with black coal tar, strong naphthalene odor, 100% saturation and free product of black coal tar, wet.	5		
	10	MC 3		0.5	389 603	FILL		FILL- trace wood, fine gravel. Black coal tar free product and 100% saturation. Use a weighted string down the borehole, 5" of product measured.	10		
								Bottom of borehole at 12.0 feet.	12		

Project Name: Con Edison East 138th Street

Project Location: Bronx, NY

Project Number: 11176159.20000

Log of Boring SB-44

Sheet 1 of 1

Date (s) Drilled	2/19/14 - 2/20/14	Logged By	M. Dascoli	Approximate Surface Elevation (feet)	
Drilling Method	Direct Push	Drilling Contractor	ADT	Casing Top Elevation	----
Sampling Method	Macrocores	Drill Rig Operator	Chris Migliore	Screen Type/Slot	----
Drill Rig Type	Geoprobe 6610DT	Casing Type/Diameter	----	Gravel Pack Type	----
Groundwater Depth	5.0	Groundwater Elevation		Grout Type/Quantity	----

Remarks Samples collected at 1.5'-2' and 10'-12' for VOC, SVOC and TAL Metals, and 15'-20' for VOC, SVOC and fingerprinting.

ELEVATION (ft)	DEPTH (ft. BGL)	SAMPLE ID.	EXTENT	RECOVERY (ft)	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft)	ENV SAMPLE DEPTH	WATER DEPTH
					0			Concrete	0.5		
					2.2	FILL		FILL- Dark brown gravel, some coarse sand.	1		
					27.2	FILL		FILL- Dark brown fine to coarse sand and gravel, red brick pieces, wood fragments, faint MGP-like odor. At 2', Headspace= 63.7 ppm same as above with cobbles and bricks.	2	X	
		1		5	11.5	FILL					
					N/A						
	5				443				5		▼
		MC 2		2.3	662	FILL		FILL- cobbles, bricks, few silt, trace sand, wet. Strong, MGP-like odor, 50% saturated. Black coating and thin black product and water puddling in macroliners.			
	10				1502				10	X	
		MC 3		2.5	664	FILL		FILL- sand and cobbles, few silt, red and refractory brick. Strong, MGP-like odor, 75% saturated. Black coating and thin black product and water puddling in macroliners.			
	15				2620				15		
		MC 4		0.2		FILL		FILL- red brick fragments, gravel, few silt and sand. Strong, MGP-like odor. Black 100% coal tar saturation. Note: When retrieved the 20'-21' sample macro, clean water was poured from the top of the sampler.		X	
	20				990				21		
		MC 5		1						X	
								Bottom of borehole at 21.0 feet.			
	25										

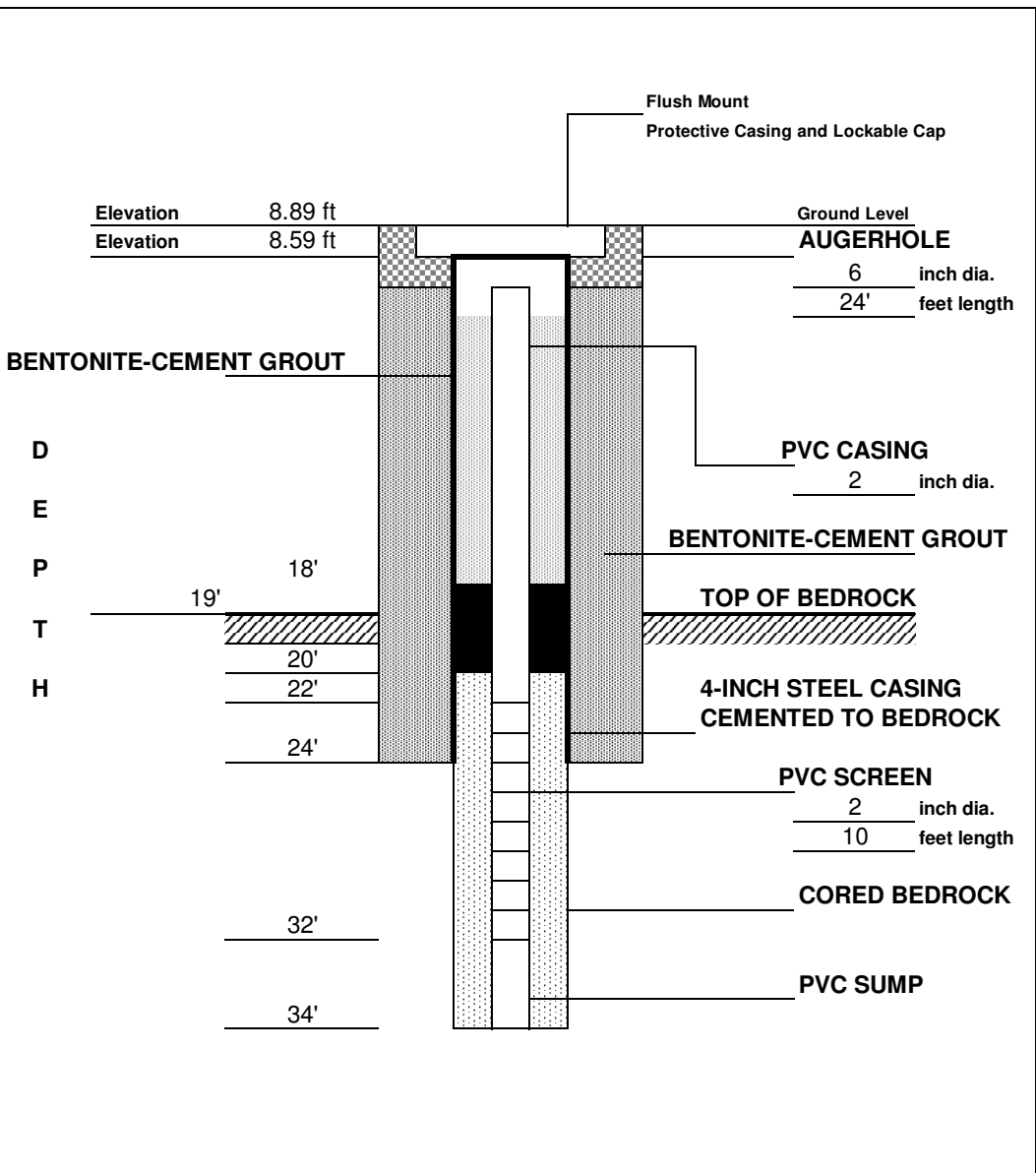
APPENDIX G

MONITORING WELL CONSTRUCTION LOGS

DRILLING SUMMARY	
Geologist:	J. Boyd
Drilling Company:	Glacier Drilling LLC
Driller:	Allen Augustin
Rig Make/Model:	CME
Date:	2/3/2012

GEOLOGIC LOG	
Depth(ft.)	Description
	See geologic log for SBMF-06

WELL DESIGN

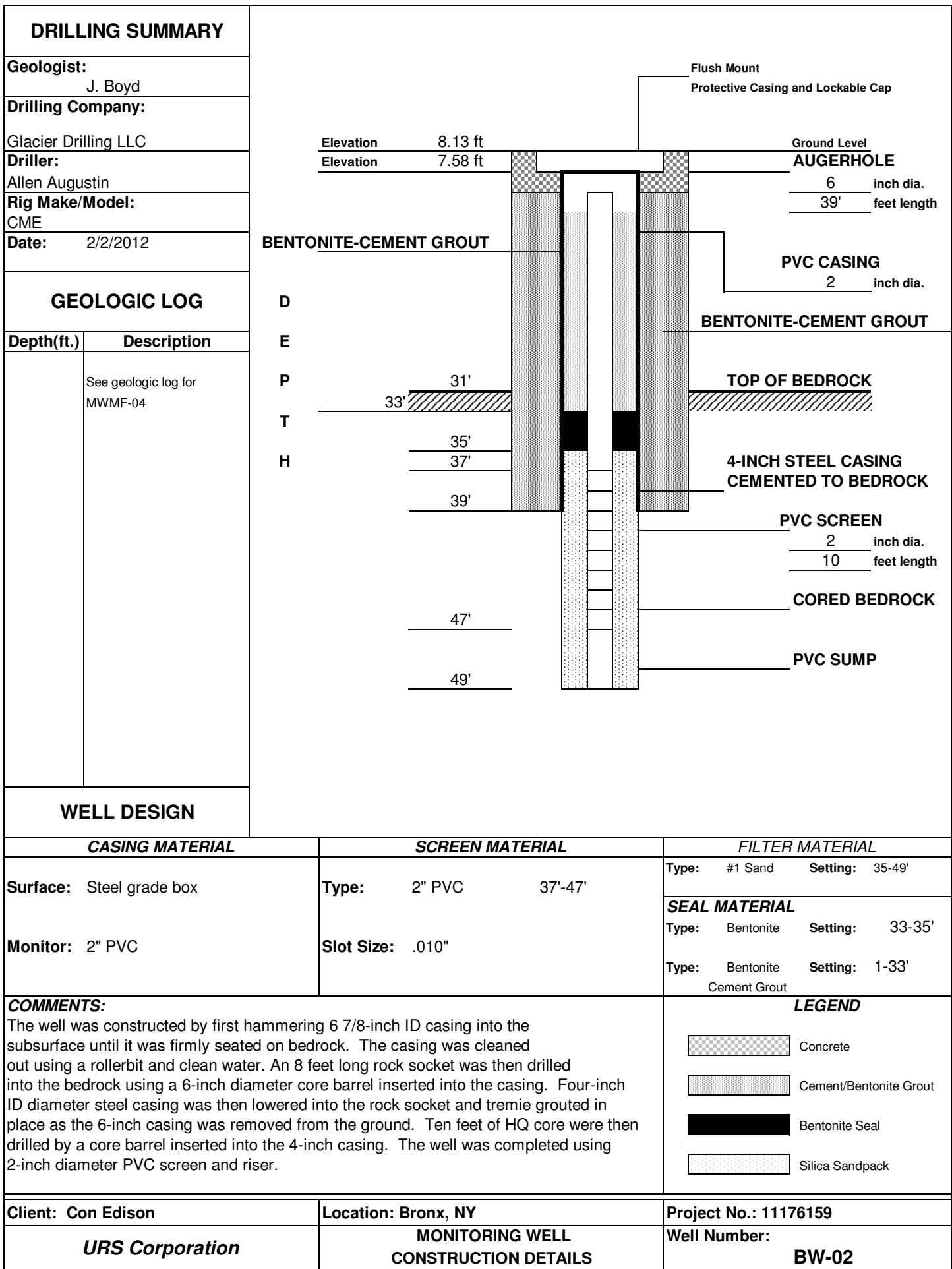


CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	Type: 2" PVC 22-32'	Type: #1 Sand Setting: 20-34'
Monitor: 2" PVC	Slot Size: .010"	SEAL MATERIAL
		Type: Bentonite Setting: 18-20'
		Type: Bentonite Setting: 1-18'
		Cement Grout

COMMENTS:
 The well was constructed by first hammering 6 7/8-inch ID casing into the subsurface until it was firmly seated on bedrock. The casing was cleaned out using a rollerbit and clean water. A 5-foot long rock socket was then drilled into the bedrock using a 6-inch diameter core barrel inserted into the casing. Four-inch ID diameter steel casing was then lowered into the rock socket and tremie grouted in place as the 6-inch casing was removed from the ground. Ten feet of HQ core were then drilled by a core barrel inserted into the 4-inch casing. The well was completed using 2-inch diameter PVC screen and riser.

LEGEND	
	Concrete
	Cement/Bentonite Grout
	Bentonite Seal
	Silica Sandpack

Client: Con Edison	Location: Bronx, NY	Project No.: 11176159
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: BW-01



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	Type: 2" PVC 37'-47'	Type: #1 Sand Setting: 35-49'
Monitor: 2" PVC	Slot Size: .010"	SEAL MATERIAL
		Type: Bentonite Setting: 33-35'
		Type: Bentonite Setting: 1-33'
		Cement Grout

COMMENTS:
 The well was constructed by first hammering 6 7/8-inch ID casing into the subsurface until it was firmly seated on bedrock. The casing was cleaned out using a rollerbit and clean water. An 8 feet long rock socket was then drilled into the bedrock using a 6-inch diameter core barrel inserted into the casing. Four-inch ID diameter steel casing was then lowered into the rock socket and tremie grouted in place as the 6-inch casing was removed from the ground. Ten feet of HQ core were then drilled by a core barrel inserted into the 4-inch casing. The well was completed using 2-inch diameter PVC screen and riser.

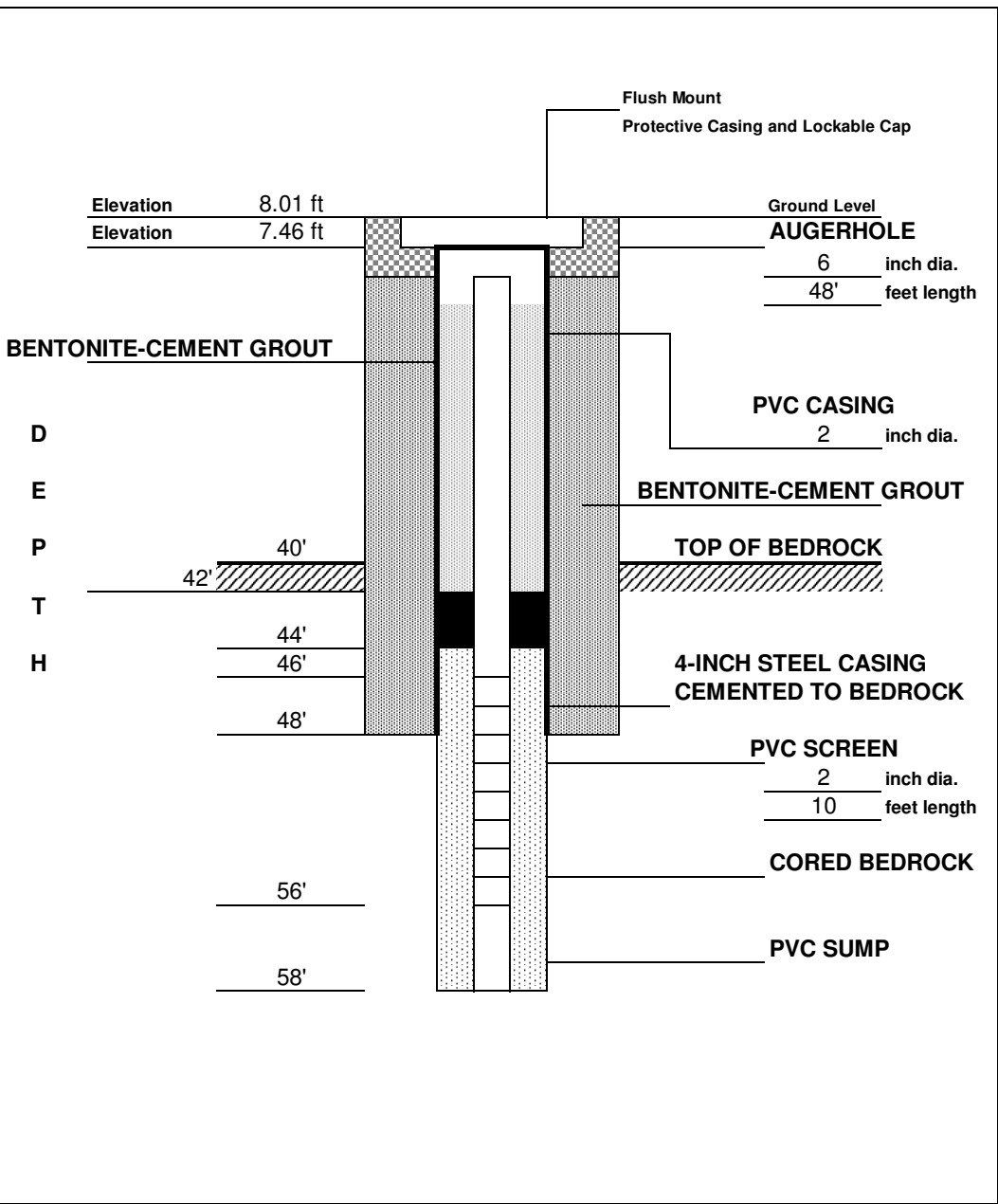
LEGEND	
	Concrete
	Cement/Bentonite Grout
	Bentonite Seal
	Silica Sandpack

Client: Con Edison	Location: Bronx, NY	Project No.: 11176159
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: BW-02

DRILLING SUMMARY	
Geologist:	J. Boyd
Drilling Company:	Glacier Drilling LLC
Driller:	Allen Augustin
Rig Make/Model:	CME
Date:	2/2/2012

GEOLOGIC LOG	
Depth(ft.)	Description
	See geologic log for MWMF-05

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	Type: 2" PVC 46-56'	Type: #1 Sand Setting: 44-58'
Monitor: 2" PVC	Slot Size: .010"	SEAL MATERIAL
		Type: Bentonite Setting: 42-44'
		Type: Bentonite Setting: 1-42'
		Cement Grout

COMMENTS:
 The well was constructed by first hammering 6 7/8-inch ID casing into the subsurface until it was firmly seated on bedrock. The casing was cleaned out using a rollerbit and clean water. An 8 feet long rock socket was then drilled into the bedrock using a 6-inch diameter core barrel inserted into the casing. Four-inch ID diameter steel casing was then lowered into the rock socket and tremie grouted in place as the 6-inch casing was removed from the ground. Ten feet of HQ core were then drilled by a core barrel inserted into the 4-inch casing. The well was completed using 2-inch diameter PVC screen and riser.

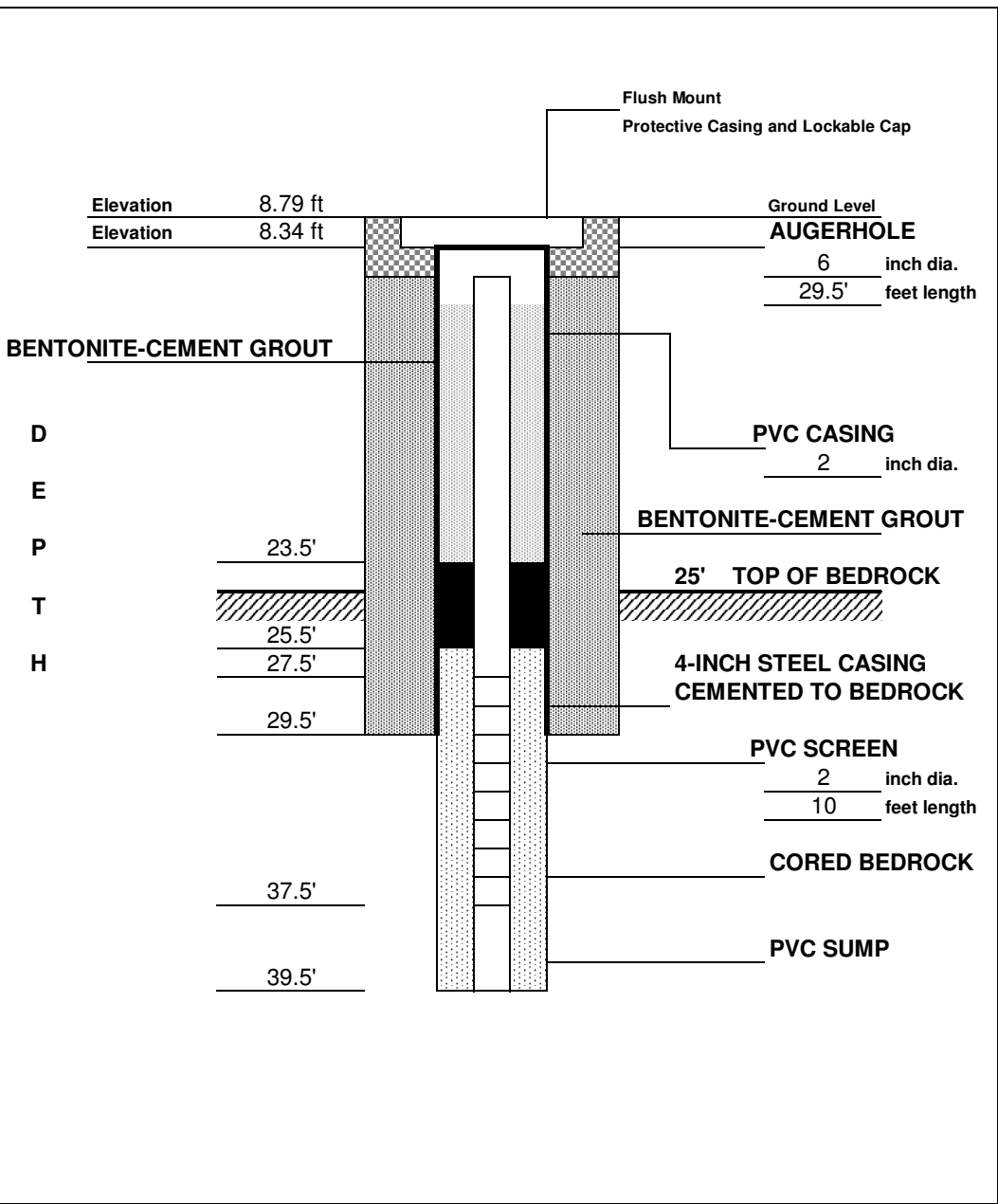
LEGEND	
	Concrete
	Cement/Bentonite Grout
	Bentonite Seal
	Silica Sandpack

Client: Con Edison	Location: Bronx, NY	Project No.: 11176159
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: BW-03

DRILLING SUMMARY	
Geologist:	J. Boyd
Drilling Company:	Glacier Drilling LLC
Driller:	Allen Augustin
Rig Make/Model:	CME
Date:	2/1/2012

GEOLOGIC LOG	
Depth(ft.)	Description
	See geologic log for MWMF-07D

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	Type: 2" PVC 27.5'-37.5'	Type: #1 Sand Setting: 25.5'-39.5'
Monitor: 2" PVC	Slot Size: .010"	SEAL MATERIAL
		Type: Bentonite Setting: 23.5'-25.5'
		Type: Bentonite Setting: 1-23.5'
		Cement Grout

COMMENTS:
 The well was constructed by first hammering 6 7/8-inch ID casing into the subsurface until it was firmly seated on bedrock. The casing was cleaned out using a rollerbit and clean water. A 4.5 feet long rock socket was then drilled into the bedrock using a 6-inch diameter core barrel inserted into the casing. Four-inch ID diameter steel casing was then lowered into the rock socket and tremie grouted in place as the 6-inch casing was removed from the ground. Ten feet of HQ core were then drilled by a core barrel inserted into the 4-inch casing. The well was completed using 2-inch diameter PVC screen and riser.

LEGEND	
	Concrete
	Cement/Bentonite Grout
	Bentonite Seal
	Silica Sandpack

Client: Con Edison	Location: Bronx, NY	Project No.: 11176159
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: BW-04

DRILLING SUMMARY

Geologist:
John Boyd

Drilling Company:
Zebra Environmental Corp.

Driller:
Peter Eichler

Rig Make/Model:
GeoProbe 6620

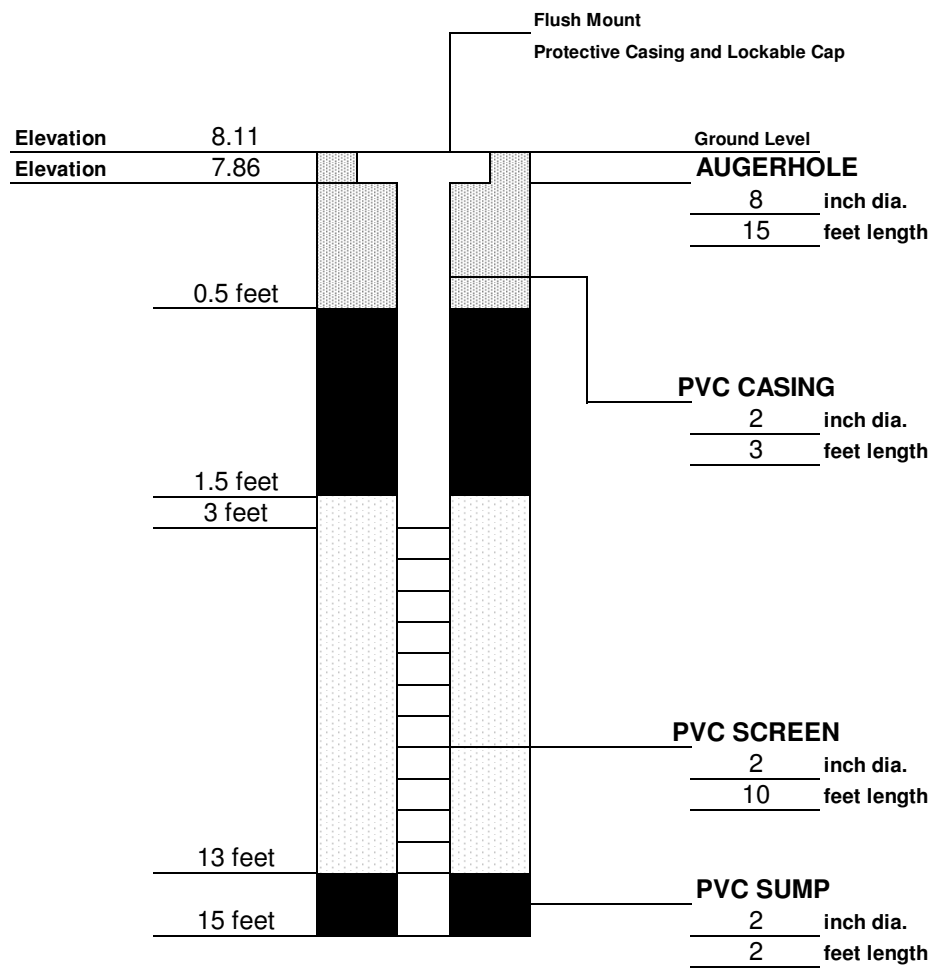
Date:
3/26/2010

GEOLOGIC LOG

Depth(ft.)	Description
	See Well Log

WELL DESIGN

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CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
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Surface: Steel grade box	Type: 2" PVC	Type: #1 Sand Setting: 1.5' to 13'
Monitor: 2" PVC	Slot Size: .010"	SEAL MATERIAL Type: Bentonite Setting: 0.5' to 1.5' and 13' to 15'.

COMMENTS:

LEGEND

	Concrete Pad
	Bentonite Seal
	Silica Sandpack

Client: Consolidated Edison of NY	Location: 138th Street, Bronx, NY	Project No.: 11176159
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: MW-01

DRILLING SUMMARY

Geologist:
John Boyd

Drilling Company:
Zebra Environmental Corp.

Driller:
Evan Moraitis

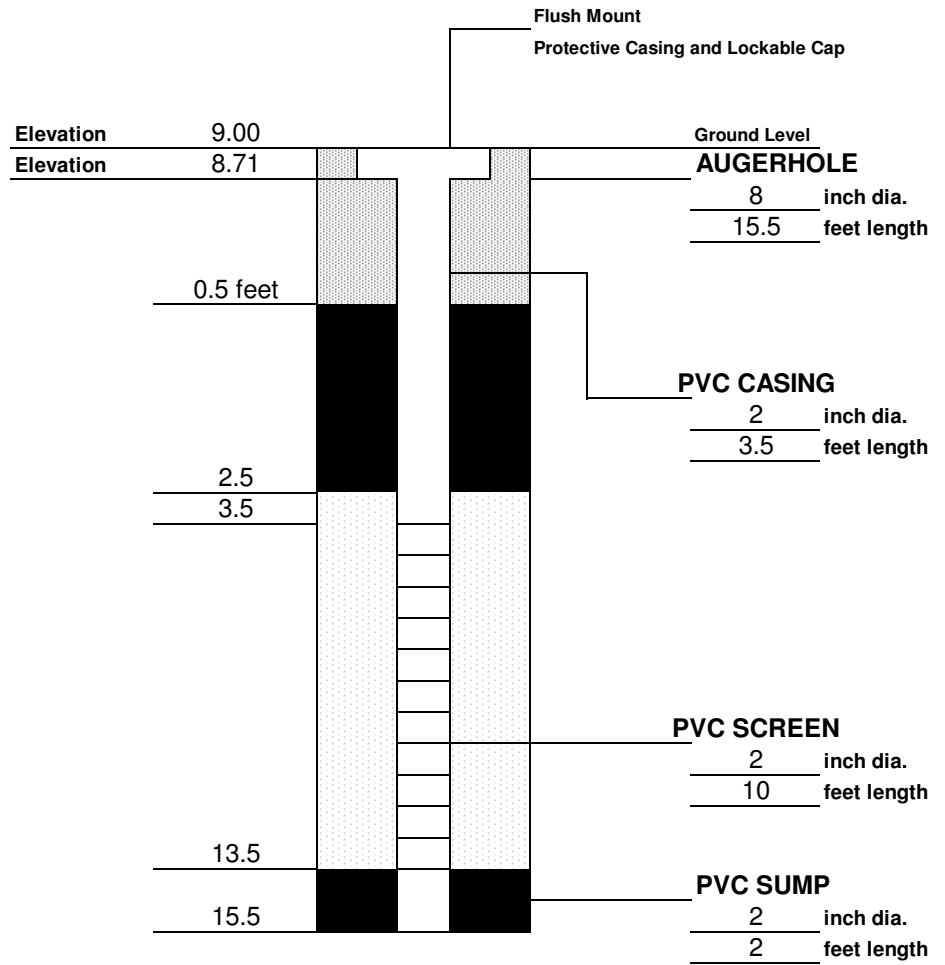
Rig Make/Model:
GeoProbe 6620

Date:
4/30/2010

GEOLOGIC LOG

Depth(ft.)	Description
	See Well Log

WELL DESIGN



DEPTH

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	Type: 2" PVC	Type: #1 Sand Setting: 2.5' to 13.5'
Monitor: 2" PVC	Slot Size: .010"	SEAL MATERIAL Type: Bentonite Setting: 0.5' to 2.5' and 13.5' to 15.5'.

COMMENTS:

LEGEND

	Concrete Pad
	Bentonite Seal
	Silica Sandpack

Client: Consolidated Edison of NY	Location: 138th Street, Bronx, NY	Project No.: 11176159
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: MW-02

DRILLING SUMMARY

Geologist:
John Boyd

Drilling Company:
Zebra Environmental Corp.

Driller:
Evan Moraitis

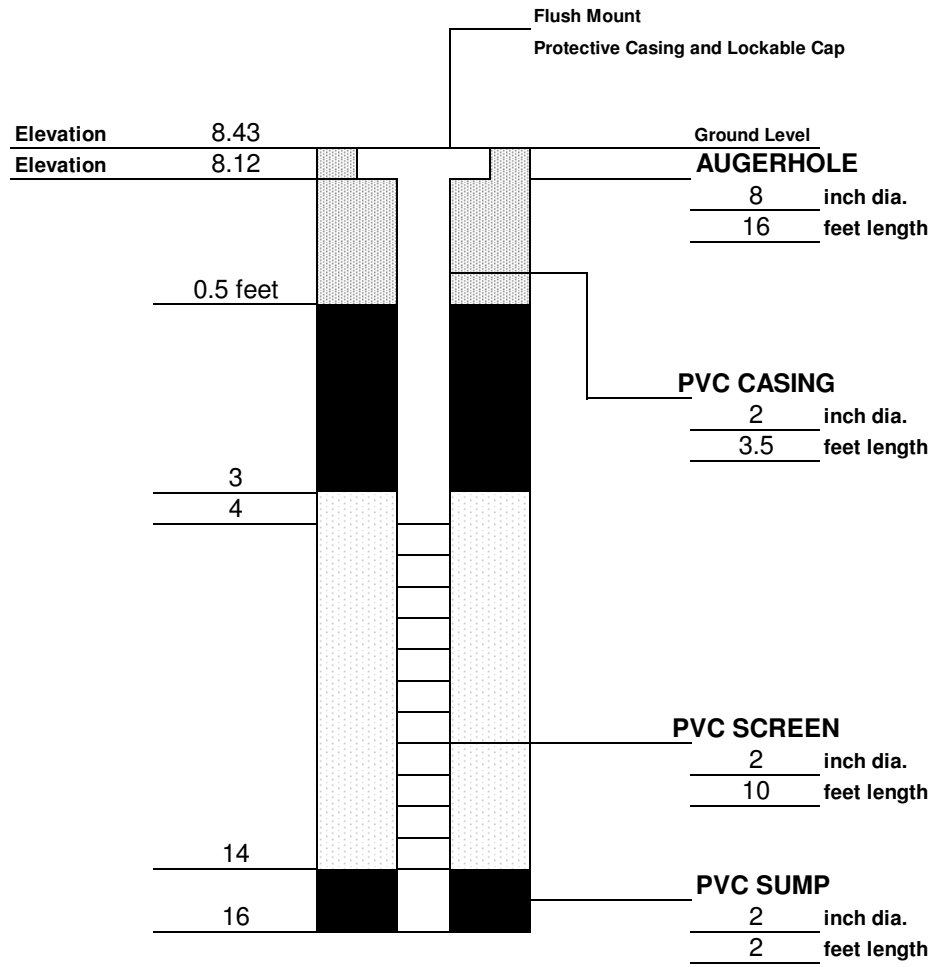
Rig Make/Model:
GeoProbe 6620

Date:
4/19/2010

GEOLOGIC LOG

Depth(ft.)	Description
	See Well Log

WELL DESIGN



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CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
-----------------	-----------------	-----------------

Surface: Steel grade box	Type: 2" PVC	Type: #1 Sand Setting: 3' to 14'
Monitor: 2" PVC	Slot Size: .010"	SEAL MATERIAL Type: Bentonite Setting: 0.5' to 3' and 14' to 16'.

COMMENTS:

LEGEND

	Concrete Pad
	Bentonite Seal
	Silica Sandpack

Client: Consolidated Edison of NY	Location: 138th Street, Bronx, NY	Project No.: 11176159
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: MW-03

DRILLING SUMMARY

Geologist:
John Boyd

Drilling Company:
Zebra Environmental Corp.

Driller:
Evan Moraitis

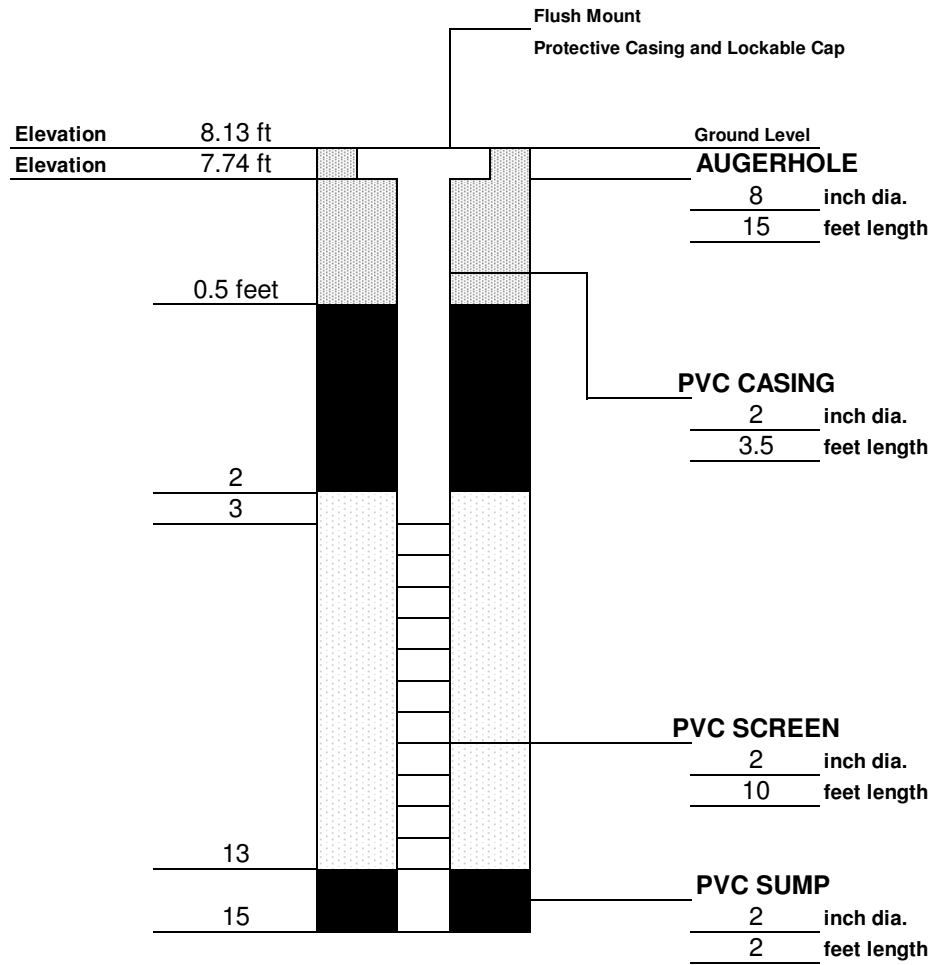
Rig Make/Model:
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Date:
4/20/2010

GEOLOGIC LOG

Depth(ft.)	Description
	See Well Log

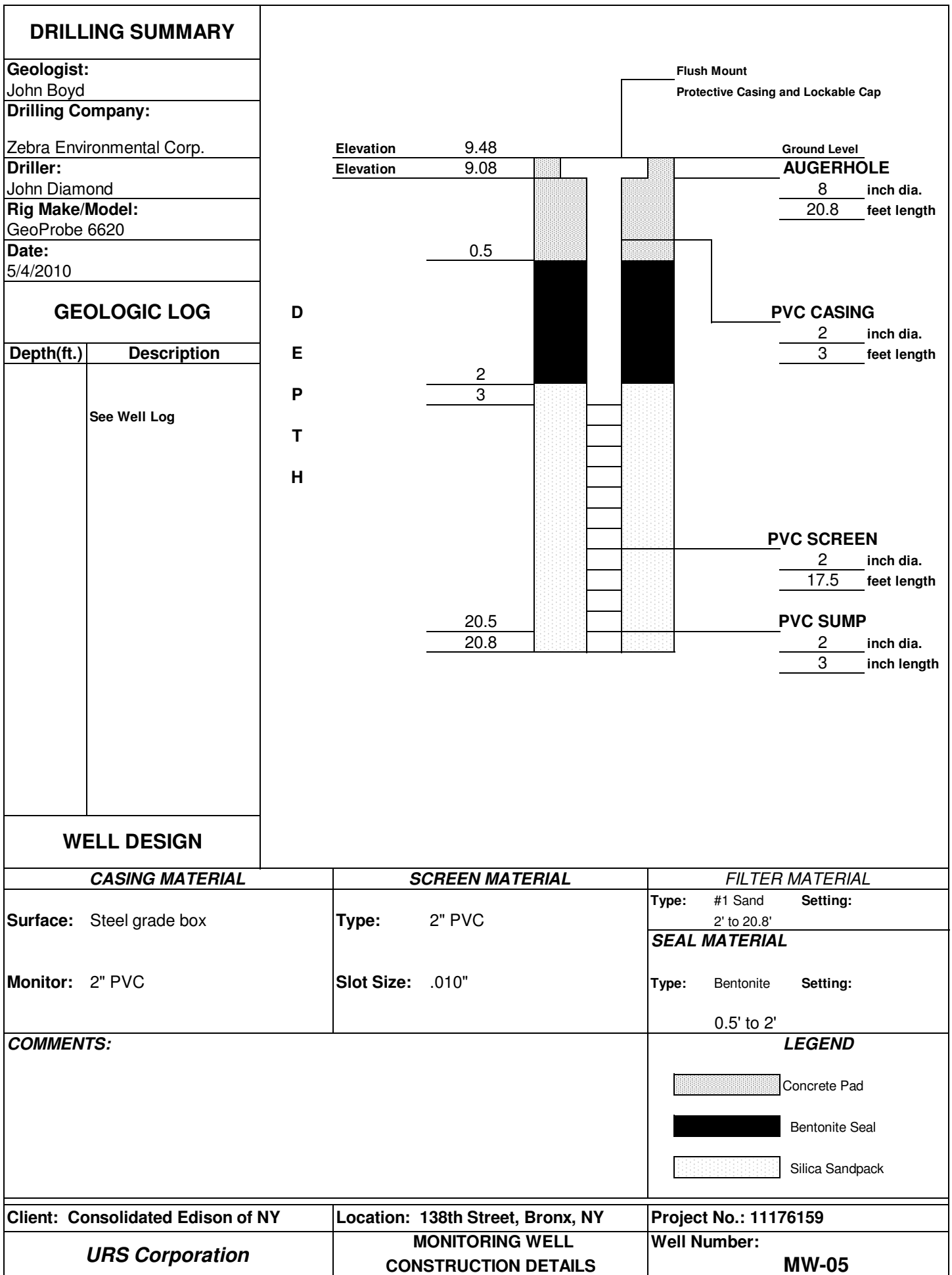
WELL DESIGN

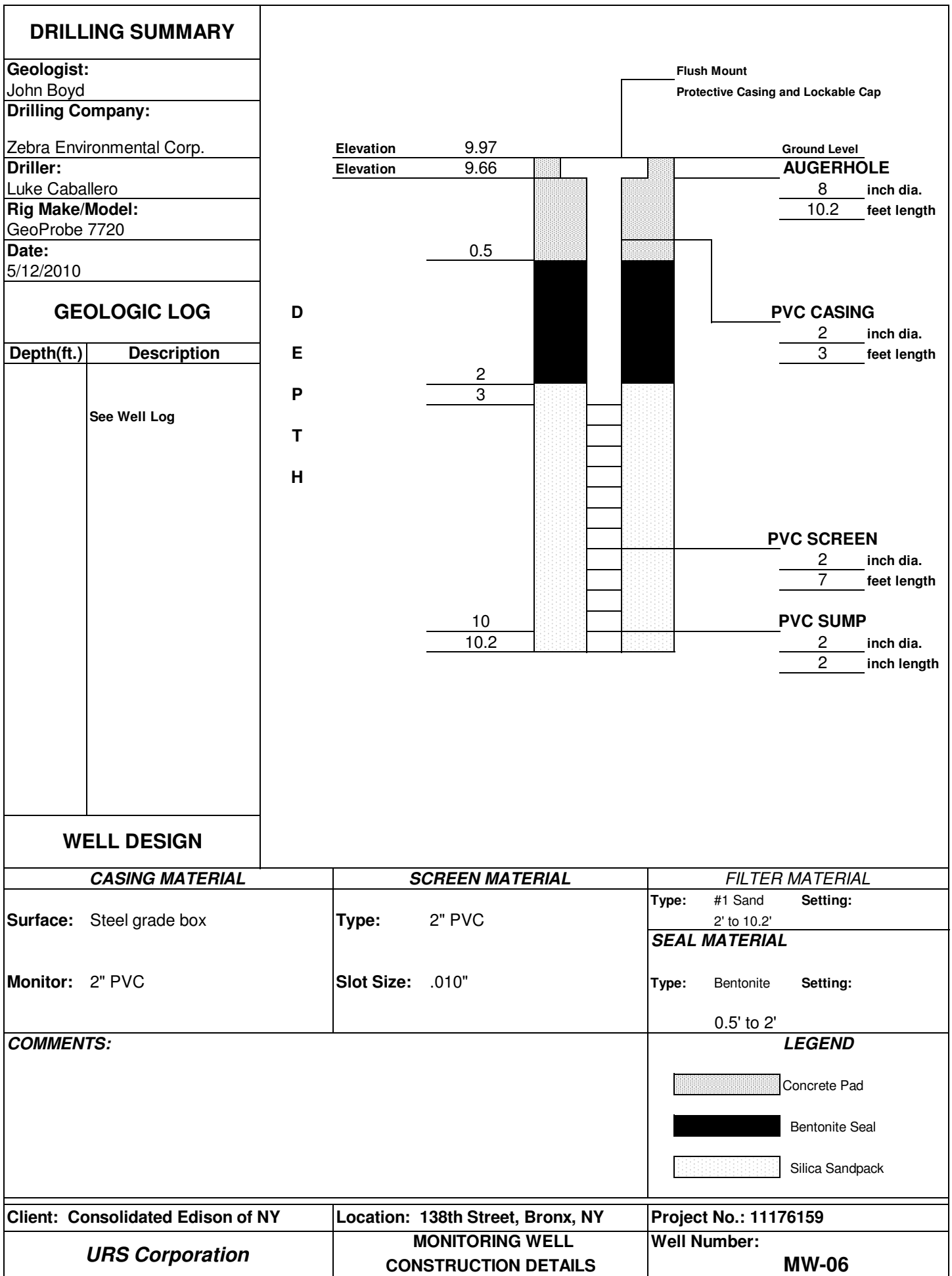


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CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	Type: 2" PVC	Type: #1 Sand Setting: 2' to 13'
Monitor: 2" PVC	Slot Size: .010"	SEAL MATERIAL Type: Bentonite Setting: 0.5' to 2' and 13' to 15'.
COMMENTS:		LEGEND <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 20px; height: 10px; background-color: #cccccc;"></div> Concrete pad <div style="border: 1px solid black; width: 20px; height: 10px; background-color: black;"></div> Bentonite Seal <div style="border: 1px solid black; width: 20px; height: 10px; background-color: #d3d3d3; border-style: dotted;"></div> Silica Sandpack </div>

Client: Consolidated Edison of NY	Location: 138th Street, Bronx, NY	Project No.: 11176159
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: MW-04





DRILLING SUMMARY

Geologist:
John Boyd

Drilling Company:
Zebra Environmental Corp.

Driller:
Luke Caballero

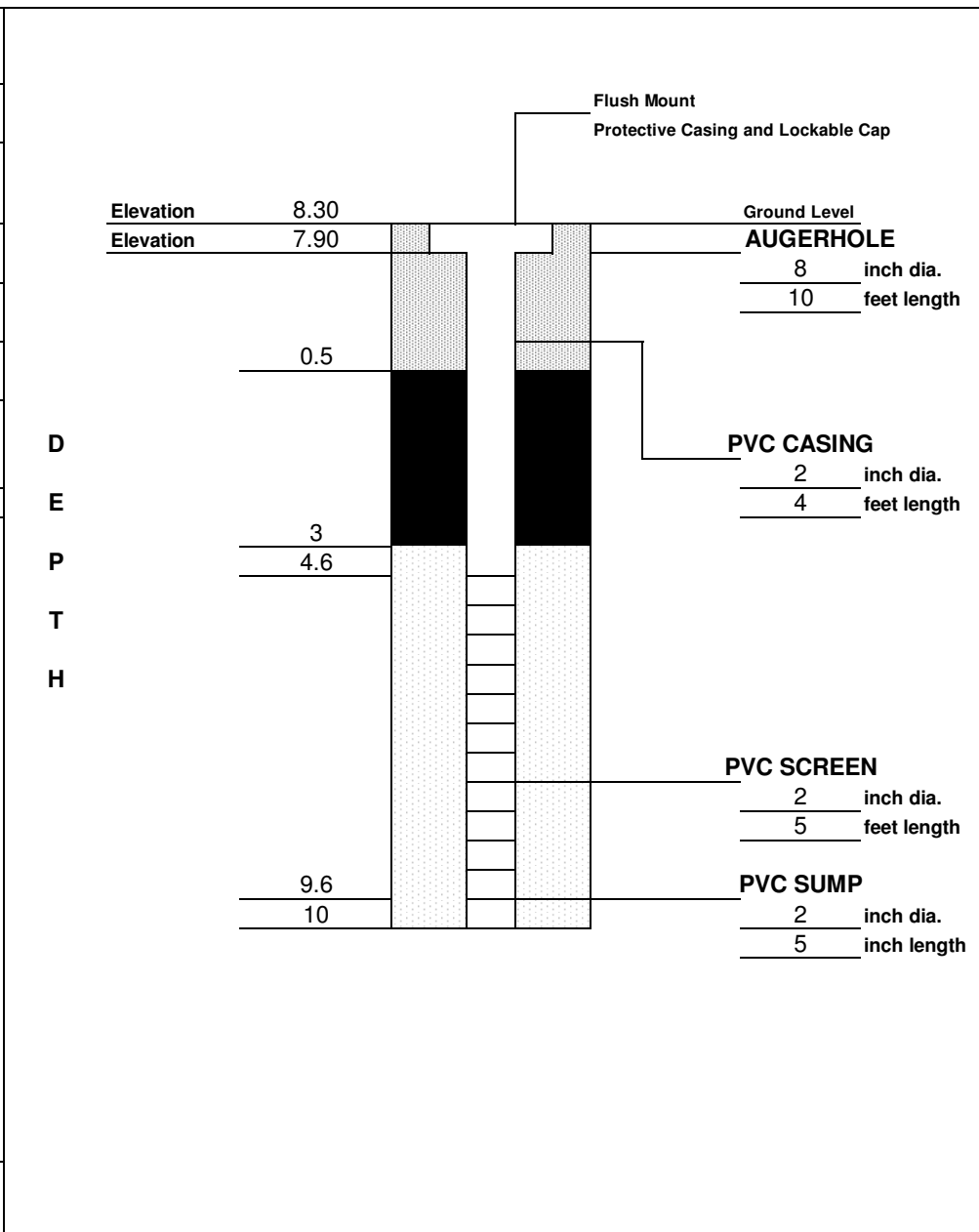
Rig Make/Model:
GeoProbe 6620

Date:
12/16/2011

GEOLOGIC LOG

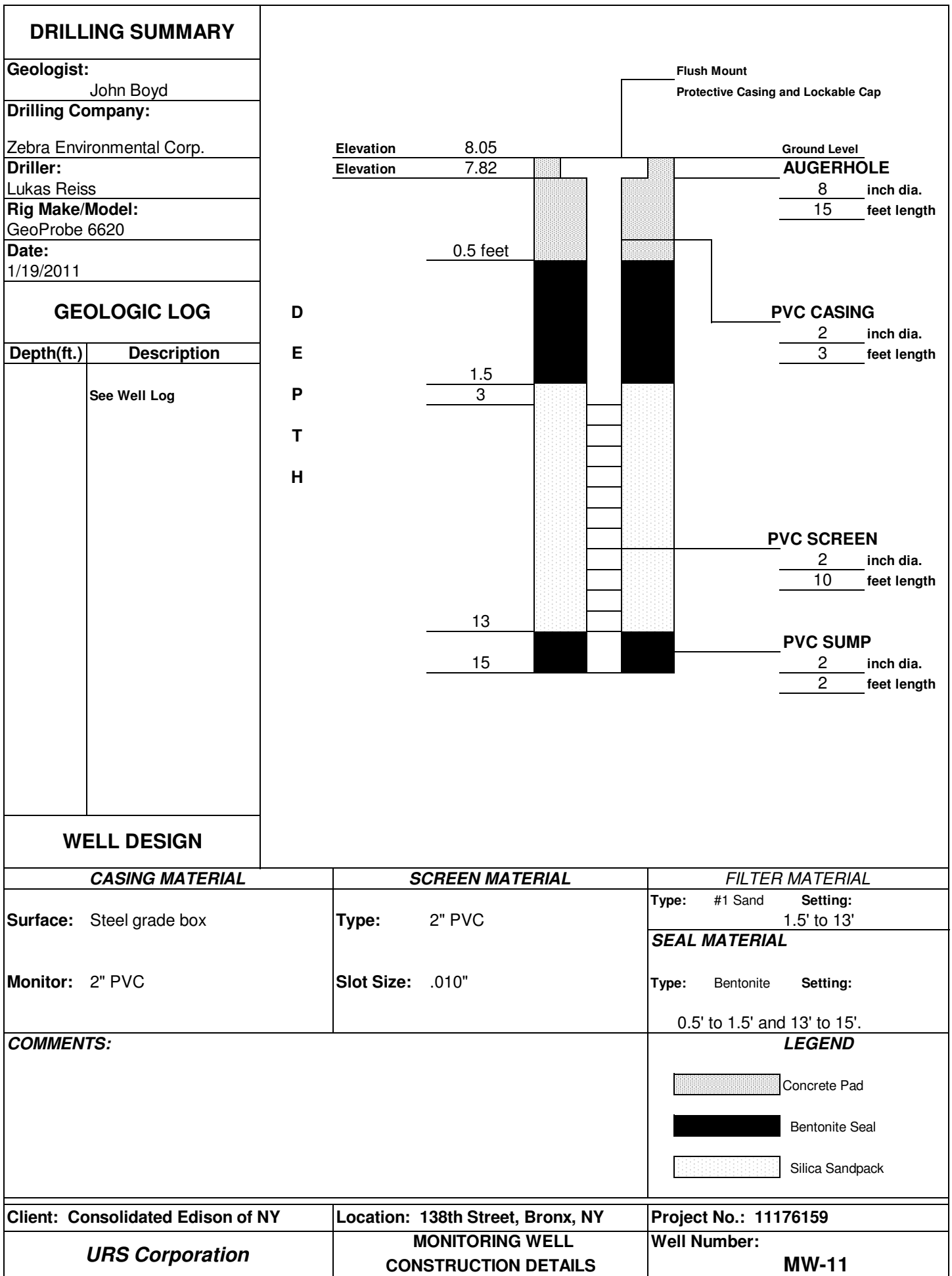
Depth(ft.)	Description
	See Well Log

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel grade box	Type: 2" PVC	Type: #1 Sand Setting: 3' to 10'
Monitor: 2" PVC	Slot Size: .010"	SEAL MATERIAL
		Type: Bentonite Setting: 0.5' to 3'
COMMENTS:		LEGEND
		Concrete Pad Bentonite Seal Silica Sandpack

Client: Consolidated Edison of NY	Location: 138th Street, Bronx, NY	Project No.: 11176159
URS Corporation	MONITORING WELL CONSTRUCTION DETAILS	Well Number: MW-07



APPENDIX M

NYSDEC DIVISION OF FISH, WILDLIFE & MARINE RESOURCES

NY NATURAL HERITAGE PROGRAM RESPONSE

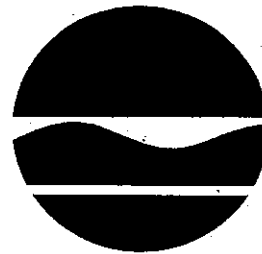
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish, Wildlife & Marine Resources

625 Broadway, 5th Floor, Albany, New York 12233-4757

Phone: (518) 402-8935 • Fax: (518) 402-8925

Website: www.dec.ny.gov



Joe Martens
Commissioner

August 10, 2011

William Trembath
U R S Corporation
77 Goodell Street
Buffalo, NY 14203

Dear Mr. Trembath:

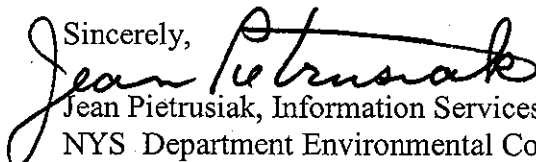
In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to an Environmental Assessment for a One Story Warehouse, site as indicated on the map you provided, located at 295 Locust Street, City and County of the Bronx, New York.

Enclosed is a report of rare or state-listed animals and plants, significant natural communities, and other significant habitats, which our databases indicate occur, or may occur, on your site or in the immediate vicinity of your site. For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our databases. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or significant natural communities. This information should not be substituted for on-site surveys that may be required for environmental impact assessment.

The enclosed report may be included in documents that will be available to the public. However, any enclosed maps displaying locations of rare species are considered sensitive information, and are intended only for the internal use of the recipient; they should not be included in any document that will be made available to the public, without permission from the New York Natural Heritage Program.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review or permit conditions. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, as listed at www.dec.ny.gov/about/39381.html.

Our databases are continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

Sincerely,

Jean Pietrusiak, Information Services
NYS Department Environmental Conservation

Enc.
cc: Region 2

783

Natural Heritage Report on Rare Species and Ecological Communities



NY Natural Heritage Program, NYS DEC, 625 Broadway, 5th Floor,
Albany, NY 12233-4757
(518) 402-8935

~The information in this report includes only records entered into the NY Natural Heritage databases as of the date of the report. This report is not a definitive statement on the presence or absence of all rare species or significant natural communities at or in the vicinity of this site.

~Refer to the User's Guide for explanations of codes, ranks and fields.

~Location maps for certain species and communities may not be provided 1) if the species is vulnerable to disturbance, 2) if the location and/or extent is not precisely known, 3) if the location and/or extent is too large to display, and/or 4) if the animal is listed as Endangered or Threatened by New York State.

Natural Heritage Report on Rare Species and Ecological Communities



BIRDS

Nyctanassa violacea

Yellow-crowned
Night-Heron
Breeding

NY Legal Status: Protected Bird

NYS Rank: S2 - Imperiled

Office Use
12553

Federal Listing:

Global Rank: G5 - Secure

Last Report: 2006-05-18

EO Rank: Poor

County: Bronx

Town: New York City (Bronx County)

Location: North and South Brother Island

General Quality and Habitat: The rank is based on the element global ranking form of April 22, 1987. There was an average of one pair per year over the last three years surveyed. The islands are surrounded by highly urbanized areas with various commercial facilities, powerplants, and factories on the shores. The Rikers Island jail complex is to the southeast. South Brother Island is very overgrown with thick vegetation and vines. North Brother Island is undergoing invasive tree species removal, replacing them with native species in The herons were observed nesting in the trees on two saltwater, non-barrier islands. North Brother Island: The nesting areas that surround ruined hospital buildings are thick and vine covered. Nesting trees include black cheery and apple. Major habitat restoration work is going on including removing invasive tree species and planting native ones which are more suitable for nesting. South Brother Island: The nesting areas are very overgrown with Oriental bittersweet and other vines.

Tyto alba

Barn Owl
Breeding

NY Legal Status: Protected Bird

NYS Rank: S1S2 - Critically imperiled

Office Use
2277

Federal Listing:

Global Rank: G5 - Secure

Last Report: 1984

EO Rank: Extant

County: Bronx

Town: New York City (Bronx County)

Location: North Brother Island

General Quality and Habitat: The owls nested in the upper stories and attics of the abandoned buildings found on the island.

OTHER

Colonial Waterbird Nesting Area

NY Legal Status: Unlisted

NYS Rank: S3 - Vulnerable

Office Use
2629

Federal Listing:

Global Rank: GNR - Not ranked

Last Report: 1995-05-26

EO Rank: Excellent

County: Bronx

Town: New York City (Bronx County)

Location: North and South Brother Islands

General Quality and Habitat: There is an average of 1265 pairs/year for 5 years surveyed. Saltwater non-barrier islands. 100% cover of deciduous forest. The birds nest in the trees. A gull colony shares the islands.

S



3 Records Processed

More detailed information about many of the rare and listed animals and plants in New York, including biology, identification, habitat, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.acris.nynhp.org, from NatureServe Explorer at <http://www.natureserve.org/explorer>, from NYSDEC at <http://www.dec.ny.gov/animals/7494.html> (for animals), and from USDA's Plants Database at <http://plants.usda.gov/index.html> (for plants).

More detailed information about many of the natural community types in New York, including identification, dominant and characteristic vegetation, distribution, conservation, and management, is available online in Natural Heritage's Conservation Guides at www.acris.nynhp.org. For descriptions of all community types, go to <http://www.dec.ny.gov/animals/29384.html> and click on Draft Ecological Communities of New York State.